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B. PROFESSIONAL BIOGRAPHY

Dr. Schonfeld received the B.S. degree in Electrical Engineering and Computer Science from the University of California, Berkeley, California, and the M.S. and Ph.D. degrees in Electrical and Computer Engineering from The Johns Hopkins University, Baltimore, Maryland, in 1986, 1988, and 1990, respectively.

In August 1990, he joined the Department of Electrical Engineering and Computer Science at the University of Illinois, Chicago, Illinois, where he is Professor Emeritus in the Departments of Electrical and Computer Engineering, Computer Science, and Biomedical Engineering. He has also served as Director of the University-Industry Engineering Research Center (UIERC), also known as the Manufacturing Research Center (MRC). He is also Co-Director of the Multimedia Communications Laboratory (MCL) and member of the Signal and Image Research Laboratory (SIRL).

Dr. Schonfeld has been elevated to the rank of Fellow of the IEEE “for contributions to image and video analysis.” He was also elevated to the rank of Fellow of the SPIE “for specific achievements in morphological image processing and video analysis.” Dr. Schonfeld has been elected University Scholar of the University of Illinois and received the Graduate Mentoring Award of the University of Illinois at Chicago.

Dr. Schonfeld has authored over 250 technical papers in various journals and conferences. He was co-author (with Carlo Giulietti and Rashid Ansari) of a paper that won the Best Paper Award at the ACM Multimedia Workshop on Advanced Video Streaming Techniques for Peer-to-Peer Networks and Social Networking 2010. He was also co-author (with Junlan Yang) of a paper that won the Best Student Paper Award in the IEEE International Conference on Image Processing 2007. He was also co-author (with Wei Qu) of a paper that won the Best Student Paper Award in the IEEE International Conference on Image Processing 2006. He was also co-author (with Nidhal Bouaynaya) of a paper that won the Best Student Paper Award in Visual Communication and Image Processing 2006.

Dr. Schonfeld has served as Editor-in-Chief of the IEEE Transactions on Circuits and Systems for Video Technology. He has also served as Deputy Editor-in-Chief of the IEEE Transactions on Circuits and Systems for Video Technology as well as Area Editor for Special Issues of the IEEE Signal Processing Magazine. He has also served as Associate Editor of the IEEE Transactions on Image Processing (on image and video storage, retrieval and analysis), Associate Editor of the IEEE Transactions on Circuits and Systems for Video Technology (on video analysis), Associate Editor of the IEEE Transactions on Signal Processing (on multidimensional signal processing and multimedia signal processing), and Associate Editor of the IEEE Transactions on Image Processing (on nonlinear filtering). He has also served on the editorial board of various journal publications. He has also served as guest editor for numerous special issues in various journal publications.

Dr. Schonfeld has served on the Conference Board of the IEEE Signal Processing Society. He has also served as Technical Program Chair of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2018. He was also organizer of the Thematic Symposium on Multimedia Search and Retrieval at the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2009. He has also served as General Chair of the International Conference on Internet Multimedia Computing and Service (ICIMCS) 2018, the IEEE Conference on Visual Communication and Image Processing (VCIP) 2016, the Workshop on Big Data in 3D Computer Vision 2013, and the IEEE International Conference on Multimedia and Expo (ICME) 2012. He has also served as Program Chair of the IEEE Conference on Visual Communication and Image Processing (VCIP) 2015. He has also served as Technical Program Chair of the IEEE Workshop on Genomic Signal Processing and Statistics (GENSIPS) 2009 as well as Chair of the Workshop on Video Mining 2008. He has also served as Chair of the SPIE Conference on Visual Communication and Image Processing (VCIP) 2007. He was a member of the organizing committees of the IEEE International Conference on Image Processing (ICIP) 1998, 2012, 2018, and 2020, IEEE/SPIE

International Conference on Visual Communications and Image Processing (VCIP) 2007, 2010, 2015, 2016, and 2017, and IEEE Workshop on Nonlinear Signal and Image Processing (NSIP) 1997.

Dr. Schonfeld was keynote speaker at the N-Brain Alliance Launch & Product Release Conference 2018 as well as Think for Education Conference (TEC) AI+Education 2018. He was also keynote speaker at the International Conference on Wireless Communications and Signal Processing (WCSP) 2016. He was also keynote speaker at the International Conference on Intelligent Control and Information Processing (ICICIP) 2013 and International Conference on Brain Inspired Cognitive Systems (BICS) 2013. He was also plenary speaker at the IEEE/IET International Conference on Audio, Language and Image Processing (ICALIP), Shanghai, China, in 2010. He was also plenary speaker at the IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), Genoa, Italy, in 2009. He was also plenary speaker at the INPT/ASME International Conference on Communications, Signals, and Systems (ICSSS), Rabat Morocco, in 1995 and 2001.

Dr. Schonfeld has served as Representative of Regions 1-6 (North America) in the Chapters Committee of the IEEE Signal Processing Society. He has also served as Chairman of the Chicago Chapter of the IEEE Signal Processing Society. He is currently serving on the IEEE Multimedia Communications Technical Committee and IEEE Visual Signal Processing and Communications (VSPC) Technical Committee. He has also served on the IEEE Image, Video, and Multidimensional Signal Processing (IVMSP) Technical Committee, formerly the IEEE Image and Multidimensional Signal Processing (IMDSP) Technical Committee. He also served on the American National Standards Institute (ANSI) / Underwriters Laboratory (UL) Standards Technical Panel (“STP”) on Multimedia Systems.

Dr. Schonfeld serves as President of the Schonfeld Consulting Corporation, a company focused on technical support in computer science and engineering. Dr. Schonfeld has served as a consultant and expert witness for various companies including Amazon, ARRIS, ASUS, Blackberry, Bloomberg, Broadcom, Cablevision, Cisco, Cloudflare, Dell, DISH Network, Dolby, GE, Google, GoPro, Hewlett-Packard, Huawei, Intel, Lenovo, LG Electronics, MediaTek, Microsoft, Motorola, Netflix, NVIDIA, Panasonic, Polycom, Qualcomm, Samsung, TASER, Time Warner, TiVo, Vizio, Zeiss. His expertise are in the area of multimedia systems and signal processing and include various topics such as audio and video coding, audio processing, image and video analysis and processing, video-on-demand systems, multimedia communications, multimedia streaming, machine learning, etc.

His current research interests are in signal processing, image and video analysis, video retrieval and communications, multimedia systems, computer vision, machine learning, medical imaging, and genomic signal processing.

C. RESEARCH INTERESTS

Signal Processing, Image and Video Analysis, Video Retrieval and Communications, Multimedia Systems, Computer Vision, Machine Learning, Medical Imaging, and Genomic Signal Processing.

D. HONORS AND AWARDS

IAM Patent 1000 2015: The World’s Leading Patent Practitioners
The Worlds Leading Patent Litigation Expert Witnesses
Fourth Edition
2015

Graduate Mentoring Award
University of Illinois at Chicago
2014

University Scholar
University of Illinois
2010

Member
National Academy of Artificial Intelligence (NAAI)
2025

World's AI Top Scientist
International Artificial Intelligence Industry Alliance (AIIA)
2023

Fellow
Asia-Pacific Artificial Intelligence Association (AAIA)
2021

Fellow
International Society for Optics and Photonics (SPIE)
“For Specific Achievements in Morphological Image Processing and Video Analysis”
2011

Fellow
Institute of Electrical and Electronics Engineers (IEEE)
“For Contributions to Image and Video Analysis”
2010

Senior Member
Institute of Electrical and Electronics Engineers (IEEE)
2005

Best Paper Award
C. Giulietti, D. Schonfeld, and R. Ansari
“A Novel Cache Optimization Algorithm and Protocol
for Video Streaming in Pure Peer-to-Peer Networks”
ACM Multimedia Workshop on Advanced Video Streaming Techniques
for Peer-to-Peer Networks and Social Networking
2010

Best Student Paper Award
J. Yang, D. Schonfeld and M. Mohamed
“Robust Focused Image Estimation from Multiple Images in Video Sequences”
IEEE International Conference on Image Processing
2007

Best Student Paper Award
W. Qu and D. Schonfeld

“Robust Kernel-Based Tracking Using Optimal Control”
IEEE International Conference on Image Processing
2006

Best Student Paper Award

N. Bouaynaya and D. Schonfeld
“Spatially-variant morphological image processing: Theory and applications”
SPIE Conference on Visual Communications and Image Processing
2006

Advising Award

College of Engineering
University of Illinois at Chicago
2013

Outstanding Associate Editor Award – IEEE Circuits and Systems Society

IEEE Circuits and Systems Society
IEEE Transactions on Circuits and Systems for Video Technology
2009

Most Active Chapter Award – IEEE Signal Processing Chicago Chapter Chair

IEEE – Region 4
2008

Service Award – IEEE Signal Processing Chicago Chapter Chair

IEEE – Chicago Section
2007

Certificate of Felicitation – Techo India University

“In recognition of your stellar contribution in the field of Electrical Engineering & Computer Science”
Kolkata, West Bengal, India
2023

Certificate of Appreciation – UL Standards & Engagement

Technical Committee Member
2004 – 2024

Certificate of Appreciation – IEEE Signal Processing Society

Chair, IEEE Signal Processing Chapter
Chicago Section
2006 – 2012

Certificate of Appreciation – IEEE Circuits and Systems Society

IEEE Circuits and Systems Society
Prize Paper Award Subcommittee
2010

Certificate of Appreciation – IEEE Circuits and Systems Society

IEEE Circuits and Systems Society
Deputy Editor-in-Chief of the IEEE Transactions on Circuits and Systems for Video Technology

2008 – 2010

Certificate of Appreciation – IEEE Circuits and Systems Society

IEEE Circuits and Systems Society

Associate Editor of the IEEE Transactions on Circuits and Systems for Video Technology

2008 – 2010

Certificate of Appreciation – IEEE Signal Processing Chicago Chapter Chair

IEEE – Chicago Section

2006

Top Reviewer Recognition Certificate

IEEE International Conference on Image Processing (ICIP)

Abu Dhabi, United Arab Emirates

2020

2018 Albert Nelson Marquis Lifetime Achievement Award

Marquis Who's Who

Who's Who in the World

2021 Edition

Who's Who in the World

2020 Edition

Who's Who in the World

2019 Edition

Who's Who in the World

2018 Edition

Worldwide Who's Who

2014 Edition

Who's Who in America (WWA)

2019 Edition

Who's Who in America (WWA)

2012 Edition

Who's Who in America (WWA)

2011 Edition

Who's Who in America (WWA)

2010 Edition

Who's Who in Engineering Education (WWEE)

2002 Edition

University Fellowship

The Johns Hopkins University

1986—1990

E. IN THE NEWS

IEEE Fellow Dan Schonfeld: Helping Catch Thieves & Read Fuzzy Faxes

e-Scanfax: IEEE Chicago Section Newsletter

January 2010

<http://www.ieeechicago.org/LinkClick.aspx?fileticket=Py81tdr4GTM%3D&tabid=390&mid=884>

IEEE-Chicago Fellows Provide Words of Wisdom to New IEEE Members

e-Scanfax: IEEE Chicago Section Newsletter

May 2010

http://www.ieeechicago.org/LinkClick.aspx?fileticket=2GIDPZnZQ_M%3D&tabid=390&mid=884

What You See, What You Get

University Scholar Dan Schonfeld

Paul Francuch

UIC News

November 10, 2010

<http://www.uic.edu/htbin/cgiwrap/bin/uicnews/articledetail.cgi?id=14769>

Genomic Signal Processing May Yield Clues to Cancer Treatment

Paul Francuch

UIC News Release

November 17, 2010

<http://tigger.uic.edu/htbin/cgiwrap/bin/newsbureau/cgi-bin/index.cgi?from=Releases&to=Release&id=3073&start=1232172000&end=1329285600&topic=2&dept=64>

New Camera Focuses Photos After They Are Taken

Morgen Peck

InnovationNewsDaily Contributor

November 4, 2011

<http://www.innovationnewsdaily.com/camera-focuses-photos-after-2358/>

F. EDUCATION

Ph.D. July 1990

The Johns Hopkins University

Department of Electrical & Computer Engineering

Concentration: Nonlinear Signal Processing / Image Analysis

Thesis Title: “Optimal Morphological Representation and Restoration of Binary Images: Theory and Applications”

First Reader: Prof. John Goutsias; Second Reader: Prof. Victor Solo

M.S. May 1988

The Johns Hopkins University

Department of Electrical & Computer Engineering

Concentration: Speech Processing / Biomedical Signal Processing

Advisor: Prof. Moise H. Goldstein

B.S. May 1986

University of California at Berkeley

Department of Electrical Engineering & Computer Science

Concentration: Computer Engineering / Systems Engineering

Advisor: Prof. Michael J. Sabin

G. WORK EXPERIENCE

Professor Emeritus

Department of Electrical & Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2024—Present

Director

Manufacturing Research Center (MRC)

University-Industry Engineering Research Center (UIERC)

College of Engineering

University of Illinois at Chicago

Chicago, Illinois

2008—2011

Professor with Tenure

Department of Electrical & Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2007—Present

Professor (Courtesy Appointment)

Department of Computer Science

University of Illinois at Chicago

Chicago, Illinois

2007— 2025

Professor

Department of Biomedical Engineering

University of Illinois at Chicago

Chicago, Illinois

2021— Present

Professor

Department of Bioengineering

University of Illinois at Chicago

Chicago, Illinois

2007— 2021

Associate Professor with Tenure

Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2001—2007

Associate Professor (Courtesy Appointment)

Department of Computer Science
University of Illinois at Chicago
Chicago, Illinois
2001—2007

Associate Professor

Department of Bioengineering
University of Illinois at Chicago
Chicago, Illinois
1998—2007

Associate Professor with Tenure

Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
Chicago, Illinois
1996—2001

Co-Director

Multimedia Communications Laboratory (MCL)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
1997—Present

Assistant Professor

Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
Chicago, Illinois
1990—1996

Member

Signal and Image Research Laboratory (SIRL)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
1990—2002

Instructor

Department of Electrical and Computer Engineering
The Johns Hopkins University
Baltimore, Maryland
1987—1990

Teaching Assistant

Department of Electrical and Computer Engineering

The Johns Hopkins University
Baltimore, Maryland
1986—1990

Software Engineer
Computer Aided Design
Teledyne Systems
Northridge, California
Summer 1984—85—86

H. CONSULTING EXPERIENCE

Consultant & Expert Witness
2001—Present

Consulting Activities:

Deposition and Trial Testimony
Patent Litigation
Copyright Litigation
Trade Secret Litigation
International Trade Litigation
Customs Litigation
Contract Litigation

Areas of Expertise:

Multimedia Systems
Multimedia Retrieval, Storage, and Communication Systems
Image and Video Processing
Signal Processing and Communications

Examples of Previous Litigation Experience:

Audio Coding Systems
Audio Compression Systems
Audio Processing Systems
Cable Systems
Camera Systems
Deep Learning
Graphics Processors
Image Coding Systems
Image Compression Systems
Image Processing Systems
Internet Advertising
Internet Streaming
Jukebox Systems
Machine Learning
Medical Imaging
Neural Networks
Signal Processing
Smartphones and Tablets
Television Systems

Video-on Demand (VoD) Systems
Video Coding Systems
Video Compression Systems
Video Processing Systems
Video Storage Systems
Video Streaming Systems
Wireless Systems

Companies:

Served as a consultant and expert witness for various companies including Amazon, ARRIS, ASUS, Blackberry, Bloomberg, Broadcom, Cablevision, Cisco, Cloudflare, Dell, DISH Network, Dolby, GE, Google, GoPro, Hewlett-Packard, Huawei, Intel, Lenovo, LG Electronics, MediaTek, Microsoft, Motorola, Netflix, NVIDIA, Panasonic, Polycom, Qualcomm, Samsung, TASER, Time Warner, TiVo, Vizio, Zeiss.

Consultant & President

Schonfeld Consulting Corporation
Multimedia Systems
Northbrook, Illinois
2017—Present

Consultant & President

Multimedia Systems Corporation
Multimedia Systems
Glenview, Illinois
2002—2005

Consultant

Chicago Mercantile Exchange
Multimedia Communication Networks
Chicago, Illinois
1998

Consultant

PrairieComm Corp.
Multimedia Wireless Networks
Arlington Heights, Illinois
1997

I. VISITING POSITIONS

Distinguished Visiting Scholar

Advanced Analytics Institute (AAI)
University of Technology
Sydney, Australia
2012

Visiting Professor

Department of Information Engineering and Computer Science - DISI

University of Trento
Trento, Italy
May 2010

Visiting Professor
School of Computer Engineering
Nanyang Technological University
Singapore
July 2009

Visiting Associate Professor
Department of Electrical Engineering—Systems
Tel-Aviv University
Tel-Aviv, Israel
December 1996—January 1997

J. INTERDISCIPLINARY PROGRAMS

Collaborative Neuroimaging Environment for Connectomics (CoNECT)
University of Illinois at Chicago
2013—Present

Clinical and Translational Science (CCTS)
Biomedical Informatics Core Consult Group
University of Illinois at Chicago
2009—Present

Graduate Program in Neuroscience
University of Illinois at Chicago
2001—Present

Bioinformatics Program
Department of Bioengineering
University of Illinois at Chicago
2000—Present

K. PROFESSIONAL ACTIVITIES

K.1. Editorships

Editor-in-Chief (EIC)
IEEE Transactions on Circuits and Systems for Video Technology
2014—2017

Deputy Editor-in-Chief (DEIC)
IEEE Transactions on Circuits and Systems for Video Technology
2010—2013

Area Editor, Special Sections

Special Issues
IEEE Signal Processing Magazine
2009—2011

Editor

Video Search and Mining
Studies in Computational Intelligence Series
Springer-Verlag
2009

Associate Editor

IEEE Transactions on Image Processing
Image and Video Storage, Retrieval and Analysis
2007—2009

Associate Editor

IEEE Transactions on Circuits and Systems for Video Technology
Video Analysis
2006—2009

Associate Editor

IEEE Transactions on Signal Processing
Multidimensional Signal Processing &
Multimedia Signal Processing
1999—2000

Associate Editor

IEEE Transactions on Image Processing
Filtering and Enhancement
1994—1996

Guest Editor

IEEE Journal of Special Topics in Signal Processing
Special Issue on Mathematical Morphology
and Its Applications to Image and Signal Processing
2011—2012

Guest Editor

IEEE Transactions on Image Processing
Special Issue on Distributed Camera Networks:
Sensing, Processing, Communication and Computing
2010—2011

Guest Editor

EURASIP Journal on Image and Video Processing
Special Issue on Advanced Video-Based Surveillance
2010—2011

Lead Guest Editor

IEEE Journal of Special Topics in Signal Processing

Special Issue on Recent Advances in Video Processing for Consumer Displays
2009—2011

Guest Editor

IEEE Transactions on Circuits and Systems for Video Technology
Special Issue on Event Analysis in Videos
2008

Lead Guest Editor

IEEE Journal of Special Topics in Signal Processing
Special Issue on Genomic and Proteomic Signal Processing
2007—2008

Guest Editor

Journal of Advances in Multimedia
Special Issue on Plenoptic Signal and Image Processing
2007—2008

Advisory Board

Bentham Books
Bentham Science
2021—Present

Editorial Board

Sensors
MDPI
2021—Present

Editorial Board

Recent Advances in Computer Science and Communications
Bentham Science Publishers, Ltd.
2012—2023

Editorial Board

Journal of Electrical and Computer Engineering
Hindawi Publishing Corporation
2009—2019

Editorial Board

EURASIP Journal of Image and Video Processing
2009—2013

Editorial Board

IEEE Signal Processing Magazine
2008—2011

Editorial Board

Research Letters in Signal Processing
Hindawi Publishing Corporation
2007—2009

Editorial Board

Recent Patents on Computer Science
Bentham Science Publishers, Ltd.
2007—2019

Editorial Board

Recent Patents on Electrical Engineering
Bentham Science Publishers, Ltd.
2007—2012

Contributor

Science and Technology: SPIE Newsroom
Electronic Imaging and Signal Processing
2005—2008

K.2. Committees

EIC Selection Standing Committee

IEEE Circuits and Systems Society
2025 – Present

Official Nominator

VinFuture Prize
2024 – Present

Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI)

2020

MPEG Future

2020–Present

Ad-Hoc Committee of the Conferences Board on Flagship Conferences Future Strategy

IEEE Signal Processing Society
2020-2021

Ad-Hoc Committee on Multi-Scale Models at SPS Flagship Conferences

IEEE Signal Processing Society
2019-2020

IEEE Signal Processing (SPS) Liaison

IEEE Signal Processing Society
2019-2021

Conference Board

IEEE Signal Processing Society
2019-2020

Chair

Best Paper Award Committee
CSVT Best Paper Award

IEEE Circuits and Systems Society
2023

Award Committee

Association for Computing Machinery (ACM)
ACM Multimedia
2020

Best Paper Award Selection Committee

CSVT Best Paper Award
IEEE Circuits and Systems Society
2020—2021

Best Paper Award Selection Committee

CSVT Best Paper Award
IEEE Circuits and Systems Society
2019—2020

Best Paper Award Selection Committee

CSVT Best Paper Award
IEEE Circuits and Systems Society
2013

Steering Committee

International Association for Pattern Recognition (IAPR)
Discrete Geometry and Mathematical Morphology (DGMM)
2022—Present

Travel Grant Selection Committee

IEEE Signal Processing Society
IEEE International Conference on Image Processing
2011

Steering Committee

International Society of Mathematical Morphology (ISMM)
International Symposium on Mathematical Morphology (ISMM)
2011—Present

Advisory Committee

IEEE Circuits and Systems Society
Visual Signal Processing and Communication (VSPC) Technical Committee
IEEE Conference on Visual Communications and Image Processing (VCIP)
2010— Present

Steering Committee

SPIE and IEEE Circuits and Systems Society
Conference on Visual Communications and Image Processing
2008—2010

Scientific Advisory Board

World Congress of NeuroTalk

From Nervous Functions to Treatment
Singapore Expo, Singapore
2010

Chair

Nominations and Elections Subcommittee
Image, Video, and Multidimensional Signal Processing (IVMSP) Technical Committee
IEEE Signal Processing Society
2010— 2011

Honorable Member

Visual Signal Processing and Communications (VSPC) Technical Committee
IEEE Circuits and Systems Society
2018— Present

Member

Visual Signal Processing and Communications (VSPC) Technical Committee
IEEE Circuits and Systems Society
2015— 2019

Associate Member

Image, Video, and Multidimensional Signal Processing (IVMSP) Technical Committee
IEEE Signal Processing Society
2014— Present

Member

IEEE Multimedia Communications Technical Committee (MMTC) Technical Committee
IEEE Communications Society
2009— Present

Member

Image, Video, and Multidimensional Signal Processing (IVMSP) Technical Committee
IEEE Signal Processing Society
2009— 2012

Member

Image and Multidimensional Signal Processing (IMDSP) Technical Committee
IEEE Signal Processing Society
2007—2008

Member

Signal and Image Processing in Medicine Technical Committee
IEEE Circuits and Systems Society
1990—1996

Member

P2P Communication and Networking Technical Subcommittee
Multimedia Communications Technical Committee
IEEE Communications Society
2006—Present

Representative

Regions 1-6 (North America)
Chapters Committee
IEEE Signal Processing Society
2006—2012

Chairman

Chicago IEEE Signal Processing Chapter
2006—2012

Member

American National Standards Institute/Underwriters Laboratory (ANSI/UL)
Standards Technical Panels (STP)

STP 1309: Marine Shipboard Cable

UL 1309: Standard for Marine Shipboard Cable
UL 1309A: Standard, Cable for Use in Mobile Installations

STP 1863: Communications-Circuit Accessories

UL 1863: Standard for Communications-Circuit Accessories

STP 6065: Audio, Video And Similar Electronic Apparatus - Safety Requirements

UL 150: Standard for Antenna Rotators
UL 452: Standard for Antenna – Discharge Units
UL 469: Standard for Musical Instruments and Accessories
UL 813: Standard for Commercial Audio Equipment
UL 1412: Standard for Fusing Resistors and Temperature-Limited Resistors for Radio- and Television-Type Appliances
UL 1413: Standard for High-Voltage Components for Television-Type Appliances
UL 1416: Standard for Overcurrent and Overtemperature Protectors for Radio- and Television-Type Appliances
UL 1417: Standard for Special Fuses for Radio- and Television-Type Appliances
UL 1492: Audio/Video Products and Accessories
UL 1676: Standard for Conductive-Path and Discharge-Path Resistors for Use in Radio-, Video-, or Television-Type Appliances
UL 6500: Standard for Audio/Video and Musical Instrument Apparatus for Household, Commercial, and Similar General Use
UL 60065: Standard for Audio, Video and Similar Electronic Apparatus – Safety Requirements

STP 6268: Audio/Video, Information Technology, And Communication Technology Equipment

UL 62368: Audio/video, Information and Communication Technology Equipment

STP 9990: Information and Communication Technology (ICT) Cables

UL 9990: Standard for Safety for Information and Communication Technology (ICT) Power Cables

2002—Present

K.3. Review Panels**Member**

Expert Panel
Faculty of Computing and Electrical Engineering
Tampere University of Technology (TUT)

Tampere, Finland
2011

Member

Paper Award Committee
IEEE International Conference on Advanced Video and Signal-Based Surveillance (AVSS)
Genoa, Italy
2009

Member

Technical Jury
NTT DoCoMo USA Labs Most Innovative Paper Awards
IEEE International Conference on Image Processing
San Diego, California
2008

Member

Technical Jury
NTT DoCoMo USA Labs Most Innovative Paper Awards
IEEE International Conference on Image Processing
San Antonio, Texas
2007

Member

Technical Jury
NTT DoCoMo USA Labs Most Innovative Paper Awards
IEEE International Conference on Image Processing
Atlanta, Georgia
2006

Member

NSF Review Panel
Computer & Information Science & Engineering (CISE)
Computing and Communication Foundations (CCF)
Image and Multi-Dimensional Signal Processing (IMDSP)
2015

Member

NSF Review Panel
Computer & Information Science & Engineering (CISE)
Computing and Communication Foundations (CCF)
Communications and Information Foundations (CIF)
2012

Member

NSF Review Panel
Computer & Information Science & Engineering (CISE)
Computing and Communication Foundations (CCF)
Communications and Information Foundations (CIF)
2011

Member

NSF Review Panel
Computer & Information Science & Engineering (CISE)
Information & Intelligent Systems (IIS)
Databases and Data Mining (DB/DM)
2007

Member

NSF Review Panel
Small Business Innovation Research (SBIR) Program
Robotics II
Phase II
2007

Member

NSF Review Panel
Computer & Information Science & Engineering (CISE)
Information & Intelligent Systems (IIS)
Information Management (IM)
2006

Member

NSF Review Panel
Computer & Information Science & Engineering (CISE)
Information & Intelligent Systems (IIS)
Information & Knowledge Management (IKM)
2005

Member

NSF Review Panel
Small Business Innovation Research (SBIR) Program
Robotics II
Phase I
2005

Member

NSF Review Panel
Computer & Information Science & Engineering (CISE)
Advanced Networking Infrastructure and Research (ANIR)
Information Technology Research (ITR)
Networking Research
Small Grants
2002

Member

NSF Review Panel
Small Business Innovation Research (SBIR) Program
Diagnostic Systems and Signal Processing
Phase I
2002

Member

NSF Review Panel
Computer & Information Science & Engineering (CISE)
Information Technology Research (ITR)
Biology & Information Technology
Computational Biology / Biocomputation
Medium Grants
2003

K.4. Conference Chair

General Chair

International Conference on Internet Multimedia Computing and Service (ICIMCS)
Nanjing, China
2018

Technical Program Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)
Calgary, Canada
2018

General Co-Chair

IEEE Conference on Visual Communications and Image Processing (VCIP)
Chengdu, China
2016

Program Co-Chair

IEEE Conference on Visual Communications and Image Processing (VCIP)
Singapore
2015

General Co-Chair

Workshop on Big Data in 3D Computer Vision
Held in conjunction with the IEEE International Conference on Computer Vision (ICCV)
Melbourne, Australia
2013

General Co-Chair

IEEE International Conference on Multimedia and Expo (ICME)
Melbourne, Australia
2012

Technical Program Chair

IEEE International Workshop on Genomic Signal Processing and Statistics (GENSIPS)
Minneapolis, Minnesota
2009

Chair

Workshop on Video Mining
IEEE International Conference on Data Mining

Held in conjunction with the IEEE International Conference on Data Mining (ICDM)
Pisa, Italy
2008

Chair

SPIE International Conference on Visual Communications and Image Processing (VCIP)
San Jose, California
2007

Multimedia Content Analysis Track Chair

IEEE International Conference on Multimedia and Expo
New York, New York
2009

Technical Program Committee / Area Chair

IEEE International Conference on Image Processing
San Diego, California
2008

Technical Program Committee / Area Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing
Las Vegas, Nevada
2008

Technical Program Committee / Area Chair

IEEE International Conference on Image Processing
San Antonio, Texas
2007

Associate Program Chair

ACM Multimedia
Juan Les Pins, France
2002

K.5. Organizing Committees

Special Sessions Co-Chair

IEEE International Conference on Image Processing (ICIP)
Abu Dhabi, United Arab Emirates
2024

Special Sessions Co-Chair

IEEE International Conference on Image Processing (ICIP)
Abu Dhabi, United Arab Emirates
2020

Technical Program Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)
Calgary, Canada
2018

Plenary Co-Chair

IEEE Conference on Visual Communications and Image Processing (VCIP)
St. Petersburg, Florida
2017

General Co-Chair

IEEE Conference on Visual Communications and Image Processing (VCIP)
Chengdu, China
2016

Program Co-Chair

IEEE Conference on Visual Communications and Image Processing (VCIP)
Singapore
2015

General Co-Chair

Workshop on Big Data in 3D Computer Vision
Held in conjunction with the IEEE International Conference on Computer Vision (ICCV)
Melbourne, Australia
2013

General Co-Chair

IEEE International Conference on Multimedia and Expo (ICME)
Melbourne, Australia
2012

Plenary Chair

IEEE International Conference on Image Processing (ICIP)
Orlando, Florida
2012

Publications Chair

IEEE Conference on Advanced Video and Signal-based Surveillance (AVSS)
Beijing, China
2012

USA Liaison Chair

IEEE Conference on Advanced Video and Signal-based Surveillance (AVSS)
Klagenfurt, Austria
2011

Publicity Co-Chair

IEEE/SPIE International Conference on Visual Communications and Image Processing (VCIP)
Huang Shan, An Hui, China
2010

Technical Program Chair

IEEE International Workshop on Genomic Signal Processing and Statistics (GENSIPS)
Minneapolis, Minnesota
2009

Organizer

IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)
Thematic Symposium on Multimedia Search and Retrieval
Taipei, Taiwan
2009

Chair

Workshop on Video Mining
Held in conjunction with the IEEE International Conference on Data Mining (ICDM)
Pisa, Italy
2008

Chair

SPIE International Conference on Visual Communications and Image Processing (VCIP)
San Jose, California
2007

Technical Organizing Committee

IS&T/SPIE Annual Symposium on Electronic Imaging: Science and Technology
San Jose, California
2007

Publications Chair

IEEE International Conference on Image Processing
Chicago, Illinois
1998

Plenary Talks and Special Session Chair

IEEE/EURASIP Workshop on Nonlinear Signal and Image Processing
Mackinac Island, Michigan
1997

K.6. Technical Program Committees

Technical Program Committee

SPIE Conference on Video Surveillance and Transportation Imaging
San Francisco, California
2015

Technical Program Committee

SPIE Conference on Video Surveillance and Transportation Imaging
San Francisco, California
2014

Program Committee

IEEE International Conference on Automatic Face and Gesture Recognition (FG 2013)
Shanghai, China
2013

Technical Program Committee

SPIE Conference on Video Surveillance and Transportation Imaging
San Francisco, California
2013

Technical Program Committee

SPIE Conference on Visual Information Processing and Communication
San Francisco, California
2013

Technical Program Committee

ICST International Conference on
Wireless Mobile Communication and Healthcare (MobiHealth)
Paris, France
2012

Technical Program Committee

SPIE Conference on Visual Information Processing and Communication
San Francisco, California
2012

Program Committee

International Workshop on Video Event Categorization, Tagging and Retrieval (VECTaR)
Held in conjunction with the International Conference on Computer Vision
Barcelona, Spain
2011

Technical Program Committee

ICST International Conference on
Wireless Mobile Communication and Healthcare (MobiHealth)
Kos Island, Greece
2011

Technical Program Committee

SPIE Conference on Visual Information Processing and Communication
San Francisco, California
2011

Technical Program Committee

IEEE International Workshop on Genomic Signal Processing and Statistics
Cold Spring Harbor Laboratory, New York
2010

Technical Program Committee

IEEE International Conference on Multimedia and Expo (ICME)
Singapore
2010

Technical Program Committee

International Conference on Pattern Recognition (ICPR)
Track I: Computer Vision

Istanbul, Turkey
2010

Technical Program Committee

ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC)
Atlanta, Georgia
2010

Technical Program Committee

IEEE Workshop on Multimedia Computing and Communications (MCC)
Held in conjunction with the International Conference on Computer Communications and Networks (ICCCN)
Zurich, Switzerland
2010

Program Committee

ACM International Conference on Bioinformatics and Computational Biology (ACM-BCB)
Niagara Falls, New York
2010

Technical Program Committee

IEEE/SPIE International Conference on Visual Communications and Image Processing
Huang Shan, An Hui, China
2010

Technical Program Committee

ICST International Conference on
Wireless Mobile Communication and Healthcare (MobiHealth)
Ayia Napa, Cyprus
2010

Technical Program Committee

SPIE International Conference on Visual Information Processing and Communications
San Jose, California
2010

Program Committee

International Workshop on Video Event Categorization, Tagging and Retrieval (VECTaR)
Held in conjunction with the Asian Conference on Computer Vision
Xi'an, China
2009

Program Committee

IEEE International Workshop on Video-Oriented Object and Event Classification (VOEC)
Held in conjunction with the International Conference on Computer Vision (ICCV)
Kyoto, Japan
2009

Program Committee / Reviewer

IEEE International Conference on Computer Vision
Kyoto, Japan

2009

Technical Program Committee

IEEE International Conference on Advanced Video and Signal-Based Surveillance (AVSS)
Genoa, Italy
2009

Technical Program Committee

IEEE Workshop on Multimedia Computing and Communications (MCC)
Held in conjunction with the International Conference on Computer Communications and Networks (ICCCN)
San Francisco, California
2009

Technical Program Committee

International Conference on Image and Graphics
Xi'an, China
2009

Program Committee

International Conference on Advances in Multimedia (MMEDIA)
Colmar, France
2009

Technical Program Committee

IEEE International Workshop on Computational Advances
in Multi-Sensor Adaptive Processing (CAMSAP)
Dominican Republic
2009

Technical Program Committee

SPIE International Conference on Visual Communications and Image Processing
San Jose, California
2009

Technical Program Committee / Reviewer

IEEE International Conference on Image Processing
San Diego, California
2008

Program Committee

IEEE Conference on Computer Vision and Pattern Recognition
Anchorage, Alaska
2008

Technical Program Committee / Reviewer

IEEE International Conference on Acoustics, Speech, and Signal Processing
Las Vegas, Nevada
2008

Technical Program Committee

IEEE International Workshop on Genomic Signal Processing and Statistics
Phoenix, Arizona
2008

Technical Program Committee
International Workshop on Multimedia Analysis & Processing (IMAP)
U.S. Virgin Islands
2008

Technical Program Committee
SPIE International Conference on Visual Communications and Image Processing
San Jose, California
2008

Program Committee
IEEE International Conference on Computer Vision
Rio de Janeiro, Brazil
2007

Technical Program Committee / Reviewer
IEEE International Conference on Image Processing
San Antonio, Texas
2007

Technical Program Committee
IEEE International Workshop on Genomic Signal Processing and Statistics
Tuusula, Finland
2007

Technical Program Committee
SPIE International Conference on Visual Communications and Image Processing
San Jose, California
2007

Technical Program Committee
IEEE International Conference on Image Processing
Atlanta, Georgia
2006

Technical Program Committee
IEEE International Workshop on Genomic Signal Processing and Statistics
College Station, Texas
2006

Technical Program Committee
SPIE International Conference on Visual Communications and Image Processing
San Jose, California
2006

Technical Program Committee / Reviewer
IEEE International Conference on Acoustics, Speech, and Signal Processing

Toulouse, France
2006

Technical Program Committee
IEEE International Conference on Image Processing
Genova, Italy
2005

Technical Program Committee / Reviewer
IEEE International Conference on Acoustics, Speech, and Signal Processing
Philadelphia, Pennsylvania
2005

Technical Program Committee
IEEE International Conference on Image Processing
Singapore
2004

Technical Program Committee
IEEE International Conference on Image Processing
Barcelona, Spain
2003

Technical Program Committee
IEEE International Conference on Image Processing
Rochester, New York
2002

Technical Program Committee
IEEE International Conference on Image Processing
Thessaloniki, Greece
2001

Technical Program Committee
IEEE International Conference on Image Processing
Vancouver, Canada
2000

Technical Program Committee
IEEE International Conference on Image Processing
Kobe, Japan
1999

Technical Program Committee
IEEE International Conference on Image Processing
Chicago, Illinois
1998

Technical Program Committee
International Symposium on Mathematical Morphology
Amsterdam, The Netherlands

1998

Technical Program Committee

SPIE International Conference on Visual Communications and Image Processing
San Jose, California
1998

Technical Program Committee

SPIE International Conference on Visual Communications and Image Processing
San Jose, California
1997

Technical Program Committee

SPIE International Conference on Visual Communications and Image Processing
Orlando, Florida
1996

Technical Program Committee

IEEE International Conference on Image Processing
Austin, Texas
1994

Technical Program Committee

IEEE International Symposium on Circuits and Systems
Chicago, Illinois
1993

K.7. Session Organizer

Chair

IEEE International Conference on Image Processing
Special Session on Face Recognition II
Orlando, Florida
2012

Organizer and Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing
Special Session on Video Search and Event Analysis
Taipei, Taiwan
2009

Organizer

Workshop on Global Multimedia Mobile Communications
University of Illinois at Chicago
Chicago, Illinois
2005

Organizer and Chair

IEEE International Conference on Image Processing
Special Session on Nonlinear Filtering

Austin, Texas
1994

Organizer and Chair

IEEE International Symposium on Circuits and Systems
Special Session on Medical Image and Signal Processing
Singapore
1991

Organizer and Chair

Conference on Information Sciences and Systems
Session on Nonlinear Image and Signal Processing I
Baltimore, Maryland
1991

K.8. Session Chair

Chair

IEEE International Conference on Image Processing
Session on Defect Removal
Taipei, Taiwan
2019

Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing
Session on Stereoscopic and 3D Processing
Brighton, United Kingdom
2019

Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing
Session on Image and Video Indexing and Retrieval
Prague, Czech Republic
2011

Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing
Session on Image/Video Semantic Understanding
Dallas, Texas
2010

Chair

IEEE International Conference on Advanced Video and Signal-Based Surveillance (AVSS)
Session on Trajectory Analysis and Learning
Genoa, Italy
2009

Chair

IEEE International Conference on Multimedia and Expo
Session on Multimedia Content Analysis and Synthesis IV

New York, New York
2009

Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing
Session on Stereoscopic and 3-D Processing
Taipei, Taiwan
2009

Chair

IEEE International Conference on Image Processing
Session on Enhancement and Denoising II
San Diego, California
2008

Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing
Session on Restoration and Enhancement
Las Vegas, Nevada
2008

Chair

SPIE Electronic Imaging Conference on Visual Communications and Image Processing
Session on Image Processing
San Jose, California
2008

Chair

IEEE International Conference on Image Processing
Session on Image and Video Restoration and Enhancement I
San Antonio, Texas
2007

Chair

IEEE International Conference on Image Processing
Session on Image and Video Filtering
Atlanta, Georgia
2006

Chair

IEEE International Conference on Multimedia and Expo
Session on Media Signal Processing
Toronto, Canada
2006

Chair

IEEE International Conference on Multimedia and Expo
Session on Multimedia Database Applications
Toronto, Canada
2006

Chair

IEEE International Conference on Multimedia and Expo
Session on Peer-to-Peer Multimedia Streaming
Toronto, Canada
2006

Chair

SPIE Electronic Imaging Conference on Visual Communications and Image Processing
Session on Computer Vision
San Jose, California
2006

Chair

IEEE International Conference on Acoustics, Speech, and Signal Processing
Session on Video Segmentation and Tracking
Philadelphia, Pennsylvania
2005

Chair

SPIE Electronic Imaging Conference on Image and Video Communications and Processing
Session on Selective Encryption for Image/Video
San Jose, California
2005

Chair

SPIE Electronic Imaging Conference on Image and Video Communications and Processing
Session on Object Tracking
San Jose, California
2005

Chair

INPT/ASME International Conference on Communications, Signals and Systems
Session on Signals and Data
Rabat, Morocco
2001

Chair

SPIE Conference on Multimedia Storage and Archiving Systems III
Session on Video Segmentation
Boston, Massachusetts
1998

Chair

IEEE International Conference on Image Processing
Session on Image Sequence Segmentation
Chicago, Illinois
1998

Chair

International Symposium on Mathematical Morphology
Session on Theory

Atlanta, Georgia
1996

Chair

INPT/ASME International Conference on Communications, Signals and Systems
Session on Signals and Data
Rabat, Morocco
1995

Chair

IEEE Workshop on Nonlinear Signal and Image Processing
Session on Mathematical Morphology and Fuzzy DSP
Neos Marmaras, Halkidiki, Greece
1995

Chair

IEEE International Conference on Image Processing
Session on Shape Representation and Image Modeling
Austin, Texas
1994

Chair

SPIE Conference on Visual Communications and Image Processing
Session on Mathematical Morphology
Boston, Massachusetts
1992

Chair

Conference on Information Sciences and Systems
Session on Signal Representation, Modeling, and Analysis
Baltimore, Maryland
1991

K.9. Panelist and Participant

Panelist

DOD Tri-Service Workshop on Stochastic Methods in Image Analysis
Session on Mathematical Morphology
U.S. Army Harry Diamond Laboratories
Adelphi, Maryland
1992

Participant

Institute for Mathematics and its Applications (IMA)
Workshop on Large Data Sets in Medical Informatics
Minneapolis, Minnesota
2011

Participant

NSF Workshop on Improving Domestic Student Participation

in Electrical and Computer Engineering Graduate Programs
University of Tennessee
Knoxville, Tennessee
2009

Participant

Workshop on Global Multimedia Mobile Communications
University of Illinois at Chicago
Chicago, Illinois
2005

Participant

Workshop on Extraction of Visual Information by Biological and Non-Biological Systems
University of Illinois at Chicago
Chicago, Illinois
2002

Participant

Workshop on Multimedia Information Systems
Capri, Italy
2001

Participant

NSF Advanced Networking Infrastructure Support
National Workshop on Developing Guidance
Research Competitiveness Program
Washington, D.C.
1999

Participant

Institute for Mathematics and its Applications (IMA)
Workshop on Applications and Theory of Random Sets
Minneapolis, Minnesota
1996

Panelist

VCIP 2015 Panel Discussion: What's Next in Visual Communications and Image Processing?
IEEE Conference on Visual Communications and Image Processing (VCIP)
Singapore
2015

K.10. Outreach Activities

Judge

Region 6 Science Fair Paper Session
Illinois Junior Academy of Science
Stevenson High School
Lincolnshire, Illinois
2022

Judge
State Science Fair Poster Session
Illinois Junior Academy of Science
Peoria Civic Center
Peoria, Illinois
2022

L. PUBLICATIONS

L.1. Thesis

- [1] D. Schonfeld, *Optimal Morphological Representation and Restoration of Binary Images: Theory and Applications*. Department of Electrical and Computer Engineering, The Johns Hopkins University, Baltimore, Maryland, 1990.

L.2. Books

- [1] C.-W. Chen, D. Schonfeld, and J. Liu, (Eds.), *Proceedings of the SPIE/IS&T International Conference on Visual Communications and Image Processing*. SPIE Press, 2007.
- [2] D. Schonfeld, C. Shan, D. Tao, and L. Wang, (Eds.), *Video Search and Mining*. Studies in Computational Intelligence Series, Springer-Verlag, 2010.

L.3. Book Chapters

- [1] M. Charif-Chefchaoui and D. Schonfeld, "Spatially-Variant Mathematical Morphology: Minimal Basis Representation," *Mathematical Morphology and Its Applications to Image and Signal Processing*. P. Maragos, R.W. Schafer, and M.K. Butt, (ed.), pp. 49-56, Kluwer Academic Publishers: Boston, Massachusetts, 1996.
- [2] D. Schonfeld, "Weighted Composite Order-Statistics Filters: Optimal Morphological Pattern Recognition," *Mathematical Morphology and Its Applications to Image and Signal Processing*. P. Maragos, R.W. Schafer, and M.K. Butt, (ed.), pp. 163-170, Kluwer Academic Publishers: Boston, Massachusetts, 1996.
- [3] D. Schonfeld, "Image and Video Communication Networks," (**Invited Chapter**). *Handbook of Image and Video Processing*. A. Bovik (ed.), Academic Press: San Diego, California, Chapter 9.3, pp. 717-732, 2000.
- [4] D. Lelescu and D. Schonfeld, "Video skimming and summarization based on principal component analysis," *Management of Multimedia on the Internet*, Lecture Notes in Computer Science, E.S. Al-Shaer and G. Pacifici (Eds.), Springer-Verlag, pp. 128-141, 2001.
- [5] F. Bashir, S. Khanvilkar, A. Khokhar, and D. Schonfeld, "Multimedia systems: Content based indexing and retrieval," (**Invited Chapter**). *Electrical Engineering Handbook*. W-K. Chen (ed.), Academic Press: San Diego, California, pp. 379-400, 2004.

- [6] S. Khanvilkar, F. Bashir, D. Schonfeld, and A. Khokhar, “Multimedia networks and communication,” **(Invited Chapter)**. *Electrical Engineering Handbook*. W-K. Chen (ed.), Academic Press: San Diego, California, pp. 401-425, 2004.
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- [8] D. Schonfeld, “Video Communication Networks,” **(Invited Chapter)**. *The Essential Guide to Video Processing*. A. Bovik (ed.), Elsevier: Chennai, India, Chapter 16, pp. 473-526, 2009.
- [9] X. Ma, X. Chen, A. Khokhar, and D. Schonfeld, “Motion trajectory-based video retrieval, classification, and summarization,” *Video Search and Mining*. Studies in Computational Intelligence Series, Springer-Verlag, pp. 53-82, 2010.
- [10] J. J. GadElkarim, D. Schonfeld, O. Ajilore, L. Zhan, A. Zhang, J.D. Feusner, P. M. Thompson, T. J. Simon, A. Kumar, and A. D. Leow, “A framework for quantifying node-level community structure group differences in brain connectivity networks,” *Medical Image Computing and Computer-Assisted Intervention – MICCAI, Lecture Notes in Computer Science*. Vol. 7511, pp. 196-203, 2012.
- [11] N. Bouaynaya, R. Shterenberg, D. Schonfeld, and H. M. Fathallah-Shaykh, “Intervention and Control of Gene Regulatory Networks: Theoretical Framework and Application to Human Melanoma Gene Regulation,” F. Emmert-Streib, and M. Dehmer, Matthias (eds.), *Statistical Diagnostics for Cancer: Analyzing High-Dimensional Data*. Wiley-VCH, Quantitative and Network Biology, 2013.
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- [13] I. Fortel, M. Butler, L. E. Korthauer, L. Zhan, O. Ajilore, I. Driscoll, A. Sidiropoulos, Y. Zhang, L. Guo, H. Huang, D. Schonfeld, and A. Leow, “Brain dynamics through the lens of statistical mechanics by unifying structure and function,” *Medical Image Computing and Computer-Assisted Intervention – MICCAI, Lecture Notes in Computer Science 11768*. (D. Shen et al., Eds.). Springer Nature Switzerland AG, pp. 503-511, 2019.

L.4. Journal Editorials

- [1] D. Schonfeld, J. Goutsias, I. Shmulevich, I. Tabus, and A.H. Tewfik, “Introduction to the issue on genomic and proteomic signal processing,” *IEEE Journal of Selected Topics in Signal Processing*, Special Issue on Genomic and Proteomic Signal Processing, vol. 2, pp. 257-260, 2008.
- [2] S.-F. Chang, J. Luo, S. Maybank, D. Schonfeld, and D. Xu, “An Introduction to the special issue on event analysis in videos,” *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 18, pp. 1469-1472, 2008.
- [3] D. Schonfeld, “Perspectives on special issues,” *IEEE Signal Processing Magazine*, vol. 26, issue 5, 2009.

- [4] D. Schonfeld, "The evolution of signal processing," *IEEE Signal Processing Magazine*, vol. 27, issue 5, 2010.
- [5] R. Chellappa, W. Heinzelman, J. Konrad, D. Schonfeld, and M. Wolf, "Introduction to Special Section on Distributed Camera Networks: Sensing, Processing, Communication, and Implementation," Special Section on Distributed Camera Networks: Sensing, Processing, Communication, and Implementation, *IEEE Transactions on Image Processing*, vol. 19, pp. 2513-2515, 2010.
- [6] D. Schonfeld, J. Biemond, G. de Haan, and A. Kaup, "Introduction to the issue on recent advances in video processing for consumer displays," *IEEE Journal of Selected Topics in Signal Processing*, Special Issue on Recent Advances in Video Processing for Consumer Displays, vol. 5, pp. 213-216, 2011.
- [7] L. Di Stefano, C. Regazzoni, and D. Schonfeld, "Advanced Video-Based Surveillance," *EURASIP Journal on Image and Video Processing*, Special Issue on Advanced Video-Based Surveillance, Volume 2011, Article ID 857084, 2 pages, 2011.
- [8] D. Schonfeld and D. Li, "Signal Processing Trends in Media, Mobility, and Search," *IEEE Signal Processing Magazine*, vol. 28, issue 4, 2011.
- [9] L. Najman, J. Barrera, B. S. D. Sagar, P. Maragos, and D. Schonfeld, "Introduction to the issue on filtering and segmentation with mathematical morphology," *IEEE Journal of Selected Topics in Signal Processing*, vol. 6, pp. 737-738, 2012.
- [10] D. Schonfeld, "Editor-in-chief message," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 24, pp. 181-182, 2014.
- [11] D. Schonfeld, "Editor-in-chief message," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 25, p. 181, 2015.

L.5. Refereed Journal Papers

- [1] D. Schonfeld and J. Goutsias, "Optimal morphological pattern restoration from noisy binary images," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 13, pp. 14-29, 1991.
- [2] D. Schonfeld and J. Goutsias, "On the morphological representation of binary images in a noisy environment," *Journal of Visual Communication and Image Representation*, vol. 2, pp. 17-30, 1991.
- [3] J. Goutsias and D. Schonfeld, "Morphological representation of discrete and binary images," *IEEE Transactions on Signal Processing*, vol. 39, pp. 1369-1379, 1991.
- [4] D. Schonfeld, "On the hysteresis and robustness of Hopfield neural networks," *IEEE Transactions on Circuits and Systems--II: Analog and Digital Signal Processing*, vol. 40, pp. 745-748, 1993.
- [5] D. Schonfeld, "Optimal structuring elements for the morphological pattern restoration of binary images," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 16, pp. 589-601, 1994.

- [6] M. Charif-Chefchaoui and D. Schonfeld, "Morphological representation of nonlinear filters," *Journal of Mathematical Imaging and Vision*, vol. 4, pp. 215-232, 1994.
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- [9] M. Charif-Chefchaoui and D. Schonfeld, "Morphological representation of order-statistics filters," *IEEE Transactions on Image Processing*, vol. 4, pp. 838-845, 1995.
- [10] M. Charif-Chefchaoui and D. Schonfeld, "On the convergence and roots of order-statistics filters," *IEEE Transactions on Signal Processing*, vol. 43, pp. 1990-1993, 1995.
- [11] B.K. Jang, R.T. Chin, M. Charif-Chefchaoui, and D. Schonfeld, "Comments on the invertibility of the morphological representation," *IEEE Transactions on Image Processing*, vol. 5, pp. 529-532, 1996.
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- [13] K.A. Matkowskyj, D. Schonfeld, and R.V. Benya, "Quantitative immunohistochemistry by measuring cumulative signal strength using commercially available software Photoshop and Matlab," *The Journal of Histochemistry & Cytochemistry*, vol. 48(2), pp. 303-311, 2000.
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- [15] D. Schonfeld and D. Lelescu, "VORTEX: Video retrieval and tracking from compressed multimedia databases—multiple object tracking from MPEG-2 bitstream," (**Invited Paper**). *Journal of Visual Communication and Image Representation*, Special Issue on Multimedia Database Management, vol. 11, pp. 154-182, 2000.
- [16] D. Lelescu and D. Schonfeld, "Statistical sequential analysis for real-time scene change detection on compressed multimedia bitstream," *IEEE Transactions on Multimedia*, vol. 5, pp. 106-117, 2003.
- [17] V. Pavlovic, D. Schonfeld, and G. Friedman, "Stochastic noise process enhancement of Hopfield neural networks," *IEEE Transactions on Circuits and Systems*, vol. 52, no. 4, pp. 213-217, 2005.
- [18] N. Bouaynaya and D. Schonfeld, "Motion-based particle filtering for head tracking applications," (**Invited Paper**). *Electronic Imaging Newsletter*, vol. 15, no. 2, p. 8, 2005.
- [19] N. Balakrishnan, K. Hariharakrishnan, and D. Schonfeld, "A new image representation algorithm inspired by image submodality models, redundancy reduction, and learning in biological vision," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 27, no. 9, pp. 1367-1378, 2005.
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- [21] B. Cavusoglu, D. Schonfeld, R. Ansari, and D.K. Bal, "Real-time low-complexity adaptive approach for enhanced QoS and error resilience in MPEG-2 video transport over RTP networks," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 15, no. 12, pp. 1604-1614, 2005.
- [22] D. Schonfeld and G. Friedman, "On the optimality of hysteresis in signal processing and communication systems," *The Journal of the Franklin Institute*, vol. 342, pp. 749-759, 2005.
- [23] S. Balam and D. Schonfeld, "Associative processors for video coding applications," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 16, pp. 241-250, 2006.
- [24] F.I. Bashir, A.A. Khokhar, and D. Schonfeld, "Real-time affine-invariant motion trajectory-based retrieval and classification of video sequences from arbitrary camera view," *ACM Multimedia Systems Journal*, Special Issue on Machine Learning Approaches to Multimedia Information Retrieval, vol. 12, pp. 45-54, 2006.
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M. PANEL SPEAKER

Working With Expert Witnesses

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Chicago, Illinois
2024

N. KEYNOTE AND PLENARY TALKS

Stochastic noise process enhancement of nonlinear filtering

INPT/ASME International Conference on Communications, Signals and Systems
Rabat, Morocco
1995

VORTEX: Video Retrieval and Tracking from Compressed Multimedia Databases

INPT/ASME International Conference on Communications, Signals and Systems

Rabat, Morocco
2001

MotionSearch: Content-Based Video Retrieval and Activity Recognition in Video Surveillance
IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS)
Genoa, Italy
2009

Distributed Multi-Camera Networks: Graphical Models, Tensor Representation, and Plenoptic Functions
IEEE International Conference on Networking, Sensing, and Control (ICNSC)
Chicago, Illinois
2010

Signal Processing for Distributed Multi-Camera Networks: Theory and Applications
IEEE/IET International Conference on Audio, Language and Image Processing (ICALIP)
Shanghai, China
2010

The Visual Brain: Biologically-Inspired Imaging and Vision
International Conference on Intelligent Control and Information Processing (ICICIP)
International Conference on Brain Inspired Cognitive Systems (BICS)
Beijing, China
2013

Distributed Multi-Camera Networks: Graphs, Grammars, and Tensors
International Conference on Wireless Communications and Signal Processing (WCSP)
Yangzhou, China
2016

University of Illinois – New Oriental Artificial Intelligence Research Laboratory
N-Brain Alliance Launch & Product Release Conference
New Oriental AI Research Academy
Beijing, China
2018

AI Technology in Education and Academic Thinking
Think for Education Conference (TEC) AI+Education
Beijing, China
2018

Adversarial Networks: Deep Learning, Steganography, and Forgery Detection
IEEE International Conference on Computer, Electrical and Communication Engineering (ICCECE)
Kolkata, India
2023

O. INVITED SEMINARS

Optimal morphological representation and detection of binary images

Department of Electrical Engineering and Computer Science
Northeastern University
Boston, Massachusetts
1990

Optimal morphological representation and detection of binary images

The Johns Hopkins University
Applied Physics Laboratory
Laural, Maryland
1990

Optimal morphological representation and detection of binary images

Center for Automation Research
University of Maryland
College Park, Maryland
1990

Optimal morphological representation and restoration of binary images: Theory and applications

Department of Electrical and Computer Engineering
Illinois Institute of Technology
Chicago, Illinois
1990

Optimal morphological representation and restoration of binary images: Theory and applications

Department of Electrical and Computer Engineering
University of California
Santa Barbara, California
1990

Optimal morphological representation and restoration of binary images: Theory and applications

Department of Electrical Engineering and Computer Science
Northwestern University
Evanston, Illinois
1991

Morphological image processing and analysis: Theory and applications

Department of Electrical and Computer Engineering
University of Illinois
Urbana-Champaign, Illinois
1992

Morphological image representation: Theory and applications

DOD Tri-Service Workshop on Stochastic Methods in Image Analysis
U.S. Army Harry Diamond Laboratories
Adelphi, Maryland
1992

Morphological representation of nonlinear filters: Theory and applications

Department of Electrical and Computer Engineering
Illinois Institute of Technology
Chicago, Illinois
1993

Morphological image representation: Theory and applications
ONR Workshop on Vision and Optical Information Processing
Arlington, Virginia
1994

Nonlinear Signal and Image Processing
Department of Electrical Engineering and Computer Science
University of Illinois
Chicago, Illinois
1996

Nonlinear Operators: Theory and Application to Image Processing and Communications
School of Electrical and Computer Engineering
Technion – Israel Institute of Technology
Haifa, Israel
1996

Stochastic Noise Process Enhancement of Nonlinear Filtering
Department of Electrical Engineering
Northern Illinois University
DeKalb, Illinois
1996

Morphological Signal and Image Processing: Theory and Applications
Department of Electrical Engineering—Systems
University of Tel-Aviv
Tel-Aviv, Israel
1997

VORTEX: Video Retrieval and Tracking from Compressed Multimedia Databases
Department of Electrical and Computer Engineering
Illinois Institute of Technology
Chicago, Illinois
2001

Mathematical Morphology and Computer Vision
University of Illinois at Chicago
Chicago, Illinois
2002

VORTEX: Video Retrieval and Tracking from Compressed Multimedia Databases
Department of Electrical and Computer Engineering
Drexel University
Philadelphia, Pennsylvania
2002

**Time-Series Analysis Based on Statistical Signal Processing:
Segmentation, Prediction, and Tracking**

Global Electronic Trading Company (Getco)
Chicago, Illinois
2004

Particle Filtering for Head Tracking in Wireless Communications

Motorola Research Labs
Schaumburg, Illinois
2004

Real-Time Video Communications: Compression, Tracking, Retrieval, and Networking

University of Illinois
Chicago, Illinois
2005

Real-Time Video Tracking and Retrieval from Multimedia Databases

Motorola Research Labs
Schaumburg, Illinois
2005

**Real-Time Multiple Object Tracking and Motion Trajectory-Based Video Databases:
Indexing, Retrieval, and Activity Recognition**

Hewlett-Packard Research Labs
Haifa, Israel
2005

Real-Time Video Tracking Based on Particle Filtering

University of Illinois
Chicago, Illinois
2005

**Real-Time Collaborative Distributed Tracking and Trajectory Analysis from Multiple
Camera and Sensor Networks**

School of Electrical and Computer Engineering
Purdue University
West Lafayette, Indiana
2005

**A New Method for Multidimensional Optimization and Its Application in Image and Video
Processing**

Department of Electrical Engineering and Computer Science
Northwestern University
Evanston, Illinois
2006

Protein Communication System: Evolution and Genomic Structure

Department of Electrical and Computer Engineering
University of Illinois at Urbana-Champaign
Urbana-Champaign, Illinois
2006

Protein Communication System: Evolution and Genomic Structure

Bioinformatics Group
Mathematics and Computer Science Division
Argonne National Laboratory
Argonne, Illinois
2006

**Distributed Image and Video Processing:
Directed Graphs, Bayesian Estimation, and Hidden Markov Models**

College of Information Science and Engineering
Graduate School
Chinese Academy of Science
Beijing, P.R. China
2007

**Distributed Image and Video Processing:
Directed Graphs, Bayesian Estimation, and Hidden Markov Models**

Visual Computing Group
Microsoft Research Asia
Beijing, P.R. China
2007

**Distributed Image and Video Processing:
Directed Graphs, Bayesian Estimation, and Hidden Markov Models**

School of Electronic and Information Institute
Tongji University
Shanghai, P.R. China
2007

**Distributed Image and Video Processing:
Directed Graphs, Bayesian Estimation, and Hidden Markov Models**

School of Automation
Institute of Automation
Hangzhou Dianzi University
Hangzhou, P.R. China
2007

**Distributed Image and Video Processing:
Directed Graphs, Bayesian Estimation, and Hidden Markov Models**

Department of Information Science and Electronic Engineering
Institute of Information and Communication Systems
Zhejiang University
Hangzhou, P.R. China
2007

IneractiveVision: Distributed Image and Video Processing

Intellectual Property Technical Lecture Series
McAndrews, Held & Malloy, Ltd.
Chicago, Illinois
2007

Distributed Image and Video Processing:

Directed Graphs, Bayesian Estimation, and Hidden Markov Models

Departments of Computer Science and Electrical & Computer Engineering
Technion, Israel Institute of Technology

Haifa, Israel

2007

MotionSearch: Content-Based Video Retrieval and Classification

Joint Chapters of the IEEE

Rochester, New York

2008

Evolution and Genomic Structure: A Signal Processing Perspective

Bioinformatics Cluster

University of Rochester

Rochester, New York

2008

Evolution and Genomic Structure: A Signal Processing Perspective

Department of Electrical Engineering

Columbia University

New York, New York

2008

Evolution and Genomic Structure: A Signal Processing Perspective

Department of Electrical Engineering and Computer Science

Northwestern University

Evanston, Illinois

2008

MotionSearch: Content-Based Video Retrieval and Classification

Distinguished Speaker in the Joint College Colloquium Series

College of Engineering and Information Technology and College of Science and Mathematics

Department of Applied Science

University of Arkansas at Little Rock

Little Rock, Arkansas

2008

Evolution and Genomic Structure: A Signal Processing Perspective

Department of Electrical and Computer Engineering

University of Wisconsin – Madison

Madison, Wisconsin

2008

MotionSearch: Content-Based Video Retrieval and Classification

Department of Electrical & Computer Engineering

Tufts University

Medford, Massachusetts

2009

MotionSearch: Content-Based Video Retrieval and Classification

Department of Electrical & Microelectronics Engineering
Rochester Institute of Technology
Rochester, New York
2009

MotionSearch: Content-Based Video Retrieval and Classification

School of Computer Engineering
Nanyang Technological University
Singapore
2009

Distributed Multi-Camera Networks: Graphical Models, Tensor Representation, and Plenoptic Functions

Department of Electrical and Computer Engineering
Illinois Institute of Technology
Chicago, Illinois
2010

Personalized Visual Interaction: Robust Video-Conferencing and Human-Computer Interaction Using a Two-Camera Computer System

Qualcomm Corp.
San Diego, California
2010

Evolution and Genomic Structure: A Signal Processing Perspective

Department of Information Engineering and Computer Science - DISI
Microsoft Research-University of Trento Centre for Computational and Systems Biology
University of Trento
Trento, Italy
2010

A Novel Cache Optimization Algorithm and Video Streaming Protocol for Pure Peer-to-Peer Networks

Motorola Research Labs
Schaumburg, Illinois
2010

Distributed Multi-Camera Networks: Graphical Models, Tensor Representation, and Plenoptic Functions

Research Center of Automation
Northeastern University
Shenyang, P.R. China
2010

Distributed Multi-Camera Networks: Graphical Models, Tensor Representation, and Plenoptic Functions

School of Automation and Electric Engineering
Zhejiang University of Science and Technology
Hangzhou, P.R. China
2010

Distributed Multi-Camera Networks: Graphical Models, Tensor Representation, and Plenoptic Functions

Center for OPTical IMagery Analysis and Learning (OPTIMAL)
State Key Laboratory of Transient Optics and Photonics
Xi'an Institute of Optics and Precision Mechanics
Chinese Academy of Sciences
Xi'an, P.R. China
2010

Distributed Multi-Camera Networks: Graphs, Grammars, and Tensors

Dean's Leadership in Innovation Seminar Series
Advanced Analytics Institute (AAI)
University of Technology
Sydney, Australia
2012

Genomic Signal Processing: Evolution, Structure, and Regulation

Dean's Leadership in Innovation Seminar Series
Advanced Analytics Institute (AAI)
University of Technology
Sydney, Australia
2012

Distributed Multi-Camera Networks: Theory and Applications

Harbin Engineering University (HEU)
Harbin, China
2014

Distributed Multi-Camera Networks: Theory and Applications

Electrical and Computer Engineering Graduate Program
Ryerson University
Toronto, Canada
2014

Genomic Signal Processing: Evolution, Structure, and Regulation

Distinguished Lecturer Seminar Series
Electrical Engineering Department
The Pennsylvania State University
University Park, Pennsylvania
2015

Genomic Signal Processing: Evolution, Structure, and Regulation

School of Electrical & Electronic Engineering
Nanyang Technological University
Singapore
2015

P. GRADUATE STUDENTS AND VISTING SCHOLARS

P.1. Visiting Scholars

Mohammed Charif-Chefchaoui

Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1995

Position: Director and Professor, National Institute of Postes and Telecommunications, Morocco.

Yuesong Lin

Department of Electrical and Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2007

Position: Professor, Institute of Information and Control, Hangzhou Dianzi University, Hangzhou, P.R. China.

Haihong Chi

Department of Electrical and Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2010

Position: Associate Professor, College of Automation, Harbin Engineering University (HEU), Harbin, P.R. China.

Claudio Piciarelli

Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
2010

Position: Postdoctoral Fellow, Department of Mathematics and Computer Science, University of Udine, Udine, Italy.

P.2. Postdoctoral Fellows

Mohammed Charif-Chefchaoui

Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1994

Position: Director and Professor, National Institute of Postes and Telecommunications, Morocco.

P.3. Visiting Students

Alessio Dore

Department of Electrical and Computer Engineering

University of Illinois at Chicago
Chicago, Illinois
2008

Former Position: Doctoral Candidate, DIBE - Department of Biophysical and Electronic Engineering, University of Genova, Genoa, Italy.

Current Position: Postdoctoral Fellow, Imaging Sciences Centre, Institute of Biomedical Engineering, Imperial College, London, United Kingdom.

Yunmei Gong

Department of Electrical and Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2008-09

Current Position: Doctoral Candidate, Information and Communication Engineering, College of Electronics and Information Engineering, Tongji University, Shanghai, P.R. China.

Nicola Piotto

Department of Electrical and Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2010

Current Position: Doctoral Candidate, Department of Engineering and Computer Science – DISI, Multimedia Signal Processing and Understanding Lab – MMLab, University of Trento, Trento, Italy.

P.4. Doctoral Students

Mohammed Charif-Chefchaoui

“Morphological Representation of Nonlinear Filters: Theory and Applications”

Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1993

Former Position: Professor, National Institute of Postes and Telecommunications, Rabat, Morocco.

Current Position: Director, National Institute of Postes and Telecommunications, Rabat, Morocco.

Dan Lelescu

“VORTEX: Video Retrieval and Tracking from Compressed Multimedia Databases”

Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
2000

Former Position(s): Senior Research Scientist, Lead of Algorithms Group, Compression Sciences, Campbell, California, USA; Senior Researcher, NTT DoCoMo Communications Laboratories USA, San Jose, California, USA; Principal Scientist, Advanced Imaging Research & Development Laboratory, Micron Technology, California, USA; Chief Scientist, Pelican Imaging Corporation, Mountain View, California, USA; Chief Scientist, Emergent VR, Campbell, California, USA.

Current Position: Engineer, Apple, Cupertino, California, USA.

Bulent Cavusoglu

“Real-Time Content-Based Video Communications over Heterogeneous Networks”

(Jointly Supervised with Prof. Rashid Ansari)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2005
Current Position: Professor, Ataturk University, Erzurum, Turkey.

Faisal Bashir

“MotionSearch: Object Motion Trajectory-Based Video Search and Classification System”
(Jointly Supervised with Prof. Ashfaq Khokhar)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2006
Internship: Mitsubishi Electric Research Laboratory (MERL), USA.
Former Position(s): Intern, Mitsubishi Electric Research Laboratory (MERL), Cambridge, Massachusetts, USA; Senior Imaging Scientist, Retica Systems, Inc., Waltham, Massachusetts, USA; Senior Vision Engineer, Heartland Robotics, Cambridge, Massachusetts, USA.
Current Position: Senior Principal Engineer – Advanced Development Group, Security and Detection Systems, L-3 Communications, Woburn, Massachusetts, USA.

Wei Qu

“Real-Time Distributed Video Tracking of Multiple Objects from Single and Multiple Cameras”
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2006
Internship: Mitsubishi Electric Research Laboratory (MERL), USA; Siemens Medical Systems, USA.
Former Position(s): Senior Research Scientist, Motorola Research Labs, Schaumburg, Illinois, USA; Senior Scientist, Siemens Medical Solutions USA, Hoffman Estates, Illinois, USA; Associate Professor, Graduate University of Chinese Academy of Sciences, Beijing, China; CEO Special Assistant, Director of Technology, President of CSST Research, Hong Kong; Vice President, R&D, Special Assistant to CEO, President of Beijing Research Institute, Beijing, China; Co-Founder, SmartVision Technology, Beijing, China.
Current Position: President, Artificial Intelligence Research Institute, New Oriental Education & Technology Group Inc., Beijing, China.

Nidhal Bouaynaya

“Analysis of Proteomics and Genomics Based on Signal Processing and Communication Theory”
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2007
Former Position: Assistant Professor, Department of Systems Engineering, University of Arkansas at Little Rock, Little Rock, Arkansas, USA.
Current Position: Associate Dean for Research & Graduate Studies, Rowan University, Glassboro, New Jersey, USA.

Hunsop Hong

Constrained and Hierarchical Density Estimation for Image Reconstruction and Sensor Networks
Department of Electrical & Computer Engineering

University of Illinois at Chicago
Chicago, Illinois
2008

Current Position: Senior Research Engineer, Samsung Information Systems America, Irvine, California, USA.

Pan Pan

Video Tracking Based on Particle Filters: Particle Allocation, Graphical Models, and Performance Evaluation

Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2009

Internship: NTT Research Laboratory, Japan; Mitsubishi Electric Research Laboratory (MERL), USA.
Former Position: Senior Researcher, Project Manager, Fujitsu Research and Development, Beijing, China.

Current Position: Technical Director, Alibaba Group, Beijing, China.

Xiang Ma

Motion Trajectory-Based Video Retrieval and Recognition: Tensor Analysis and Multi-Dimensional Hidden Markov Models

(Jointly Supervised with Prof. Ashfaq Khokhar)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2009

Internship: Knowledge Media Institute, Open University, United Kingdom; Siemens Medical Solutions USA, Hoffman Estates, Illinois, USA; Computer Vision Research Engineer, IntuVision, Inc., Woburn, Massachusetts, USA.

Former Position: Senior Research Scientist and Engineer, IntuVision, Inc., Woburn, Massachusetts, USA; Lead Engineer – 3D Maps & Reality Capture Processing, Nokia, Chicago, Illinois, USA; Research Manager, Manager of Engineering – Computer Vision, Artificial Intelligence R&D, HERE Technologies, Chicago, Illinois, USA; Applied Science Manager – Computer Vision and Artificial Intelligence, Amazon, Boston, Massachusetts, USA.

Current Position: Head of Research – Amazon Dash Carts, Senior Manager of Applied Sciences, Amazon, Boston, Massachusetts, USA.

Junlan Yang

Virtual Video Enhancement for Handheld Mobile Cameras: Stabilization, Auto-Focus, and Super-Resolution

Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2009

Internship: Ricoh Research Laboratory, Menlo Park, California, USA; Sharp Laboratories of America, USA.

Former Position: Senior Software Engineer, iKoa Corporation, Menlo Park, California, USA; Research Scientist, Marseille Networks, Santa Clara, California, USA.

Current Position: Senior Software Engineer, Google LLC, Mountain View, California, USA.

Chong Chen

Multi-Camera Vision Systems: Distributed Pose Estimation and Plenoptic Imaging
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2009

Internship: Siemens Research Laboratory, USA; FX Palo Alto Laboratory (FXPAL), USA; Abbott Laboratories, USA.

Former Position: Senior Research Engineer, Samsung Information Systems America, Irvine, California, USA.

Current Position: Video Engineer, Apple, Cupertino, California, USA.

Xu Chen

Localization and Trajectory Estimation of Mobile Objects from a Single Sensor
(Jointly Supervised with Prof. Ashfaq Khokhar)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2010

Internship: Institute of Electrical Engineering, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland; Kodak Research Laboratories, USA.

Former Position(s): Postdoctoral Fellow, Department of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor, Michigan, USA; Postdoctoral Fellow, Department of Electrical and Computer Engineering, Duke University, Durham, North Carolina, USA; Senior Researcher, Sharp Laboratories of America, Camas, Washington, USA.

Current Position: Senior Machine Learning Developer, SAS, Cary, North Carolina, USA.

Lei Gao

Compiler Optimization for Translating Software Binaries onto FPGAs
(Jointly Supervised with Prof. Prith Banerjee)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2010

Internship: Binachip, Inc., Chicago, Illinois, USA.

Former Position: Senior Engineer, Binachip, Inc., Chicago, Illinois, USA.

Current Position: Staff R&D Engineer, Synopsis, Inc., Marlborough, Massachusetts, USA.

Liuling Gong

Machine Learning for Signal Processing:
Geometry, Kernels, and Symbolic Sequences
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2010

Internship: eBay Research Labs, USA.

Former Position: Postdoctoral Fellow, Center for the Study of Complex Systems, University of Michigan, Ann Arbor, Michigan, USA; Seismic Imager, CGGVeritas, Houston, Texas, USA; Data Scientist, GE Oil & Gas, Houston, Texas, USA.

Current Position: Data Scientist, Equinor, Houston, Texas, USA.

Songqing Zhao

Multiple Description Coding for Correlated Multi-Path Networks
(Jointly Supervised by Profs. Rashid Ansari and Daniela Tuninetti)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2010

Internship: Mitsubishi Electric Research Laboratory (MERL), USA.
Former Position: Voice and Data Quality Engineer, Voice & Data Quality and Performance Analysis Group, Alcatel-Lucent, Murray Hill, New Jersey, USA.
Current Position: Senior Wireless Engineer, Apple, Cupertino, California, USA.

Xiangqiong Shi

Bayesian Networks: Performance Analysis of Loopy Belief Propagation
(Jointly Supervised with Prof. Daniela Tuninetti)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2011

Internship: Motorola Research Labs, Schaumburg, Illinois, USA; Technicolor, Research & Innovation, Princeton, New Jersey, USA; Nokia Research Center, Palo Alto, California, USA.
Former Positions: Software Engineer, Volkswagen of America, Electronics Research Lab, Herndon, Virginia, USA; Software Engineer, Apple, Cupertino, California, USA.
Current Position: Software Engineer, Ouster, San Francisco, California, USA.

Liming Wang

Genomic Signal Processing and Regulatory Networks: Representation, Dynamics and Control
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2011

Former Position: Postdoctoral Fellow, Department of Electrical Engineering, Columbia University, New York, New York, USA; Postdoctoral Associate, Department of Electrical and Computer Engineering, Duke University, Durham, North Carolina, USA; Postdoctoral Associate, Department of Electrical and Computer Engineering, Ohio State University, Columbus, Ohio, USA.
Current Position: Lead Data Scientist, HERE Technologies, Chicago, Illinois, USA.

Jing Huang

Distributed Signal and Image Processing:
Particle Filters, Context Grammars, and Dynamic Games
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2013

Internship: Fuji Xerox Palo Alto Laboratory (FXPAL), Palo Alto, California, USA; Motorola Mobility, Applied Research Center, Libertyville, Illinois, USA; Nokia Research Center, Berkeley, California, USA.
Former Positions: Software Development Engineer, TeraRecon, Inc., Foster City, California, USA; Senior Deep Learning Software Engineer, Intel Artificial Intelligence, Intel Corporation, Santa Clara, California.
Current Position: Software Engineer, Microsoft Artificial Intelligence & Research, Bellevue, Washington, USA.

Qun Li

Multilinear Algebra in High-Order Data Analysis: Retrieval, Classification and Representation

Department of Electrical & Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2013

Internship: Xerox Research Center, Xerox Innovations Group, Webster, New York, USA.

Former Positions: Research Scientist, Xerox Research Center, Xerox Innovations Group, Webster, New York, USA; Research Scientist, PARC, A Xerox Company, Palo Alto, California, USA.

Current Position: Senior Data Scientist, Microsoft, Bellevue, Washington, USA;

Johnson Jonaris GadElkarim Keiriz

From Micro to Macro: A Study of Human Brain Structure Based on Diffusion MRI and Neuronal Networks

(Jointly Supervised by Profs. Alex Leow and Richard Magin)

Department of Electrical & Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2013

Former Position: Postdoctoral Fellow, Department of Psychiatry, University of Illinois, Chicago, Illinois, USA; Lead Developer, nView medical Inc., Salt Lake City, Utah, USA; Research Scientist, Tamaggo, Montreal, Quebec, Canada; Research Scientist – Senior Software Engineer, Object Research Systems (ORS) Inc., Montreal, Quebec, Canada; Research Associate, Electronic Visualization Laboratory (EVL), University of Illinois at Chicago (UIC), Chicago, Illinois; USA.

Current Position: Principal CT Software Engineer, Canon Medical Research USA, Inc. Vernon Hills, Illinois, USA.

Lingdao Sha

When Sparsity Meets Graphs, Images, Structured and High-Dimensional Data

(Jointly Supervised with Prof. Jing Wang)

Department of Electrical & Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2018

Former Position: Senior Machine Learning Scientist, Tempus Labs, Inc., Chicago, Illinois, USA.

Current Position: Applied Scientist II, Amazon, San Diego, California.

Haoyu Wang

Depth-constrained Feature-based Stitching System for Stereoscopic Panoramic Video Generation

Department of Electrical & Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2019

Current Position: Computer Vision Engineer, Blackmagic Design, Colorado Springs, Colorado, USA.

Mehdi Sharifzadeh

Steganography and Steganalysis of Raw and Compressed Image Data

Department of Electrical & Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2019

Internships: Software Engineering Intern, Google Brain, Mountain View, California, USA; Data Scientist Intern, Western Digital, Milpitas, California, USA; Data Scientist Intern, SanDisk, Milpitas, California, USA.

Previous Position: Research Engineer, Snap, Inc., Santa Monica, California, USA.

Current Position: Senior Software Engineer, Google, Inc., Los Angeles, California, USA.

Chirag Agarwal

Robustness and Explainability of Deep Neural Networks: Architectures and Applications

Department of Electrical & Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2020

Internships: Research Intern, Geisinger Health Systems, Danville, Pennsylvania, USA; Research and Development Intern, Kitware Inc., Clifton Park, New York, USA; Imaging Science Intern, Tempus Labs Inc., Chicago, Illinois, USA; Computer Vision / Augmented Reality Intern, Robert Bosch LLC, Farmington Hills, Michigan, USA.

Previous Position: Postdoctoral Research Fellow, Department of Computer Science, Department of Biomedical Informatics, and Business School, Harvard University, Cambridge, Massachusetts, USA; Research Scientist, Media and Data Science Research Laboratory, Adobe Research, Bangalore, India.

Current Position: Assistant Professor, Department of Computer Science, School of Engineering, and Program of Data Science, School of Data Science, University of Virginia, Charlottesville, Virginia, USA.

Mohammed Aloraini

Digital Media Forgery Detection

Department of Electrical & Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2020

Current Position: Assistant Professor, Head of Electrical Engineering Department, Vice Dean of Academic Affairs, Qassim University, Buraydah, Qassim, Saudi Arabia.

Igor Fortel

Excitation-Inhibition Balance: A Study of Brain Network Dynamics Using Statistical Mechanics

(Jointly Supervised by Prof. Alex Leow)

Department of Biomedical Engineering

University of Illinois at Chicago

Chicago, Illinois

2021

Current Position: Systems Design Engineer, T-Mobile, Chicago, Illinois; Research Specialist, University of Illinois at Chicago, Chicago, Illinois.

Deepika Aggarwal

Deep Learning Networks

Department of Electrical and Computer Engineering

University of Illinois at Chicago

Chicago, Illinois

2026 (Est.)

Current Position: TBD.

Sayan Koley
Deep Learning Networks
Department of Electrical and Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2026 (Est.)
Current Position: TBD.

P.5. Masters Thesis Students

Vladimir Pavlovic
“Stochastic Noise Process Enhancement of Hopfield Neural Networks”
(Jointly Supervised with Prof. Gary Friedman)
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1993
Position: Professor, Department of Computer Science, Rutgers University, New Jersey, USA.

Deepak K. Bal
“Transmission of Real-Time MPEG-2 Video Over Differentiated Services Networks”
(Jointly Supervised with Prof. Rashid Ansari)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2003
Position: Takata, Inc., Michigan, USA.

Karthik Hariharakrishnan
“Visual Tracking: New Methods Using Adaptive Block Matching and Particle Filters”
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2003
Internship: NeoMagic Corp., USA.
Previous Position(s): National Instruments, India; Motorola, India; Senior Design Engineer, ARM, Ltd., United Kingdom.
Current Position: Staff Software Engineer, ARM, Ltd., United Kingdom.

Subhash Balam
“Associative Processors for Video Coding”
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2004
Position: Senior Staff Engineer/Manager, Qualcomm Corp., California, USA.

Emir Mulabegovic
“Lightweight Streaming Protocol for Real-Time Video Communications”

(Jointly Supervised with Prof. Rashid Ansari)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2005
Former Position: PCTEL, Illinois, USA.
Current Position: Systems Architect, Personal, Inc., Sarajevo, Bosnia and Herzegovina.

Andrea De Mauro

“A Peer-to-Peer Network for Real-Time Multiple-Description Video Communications
Using Multiple Paths”
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2006
Former Position: Financial Solutions Systems Analyst, Procter & Gamble, Newcastle, United Kingdom.
Current Position: Business Intelligence Manager, Procter & Gamble, Newcastle, Rome, Italy.

Claudio Rossi

“A Partially-Reliable Multihomed Transport Protocol for Real-Time Multiple-Description
Multimedia Traffic”
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2006
Position: Area Manager, IBM, Milan, Italy.

Amita Talati

Design and Evaluation of Data Compression and Decompression Applications on Field Programmable
Gate Arrays
(Jointly Supervised with Prof. Prith Banerjee)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2008
Former Position: Customer Applications Engineer, Newark Corporation, Cleveland, Ohio, USA.
Current Position: Senior Engineer, Newark Corporation, Cleveland, Ohio, USA.

Carlo Giulietti

A Novel Cache Optimization Algorithm and Protocol for Video Streaming in Pure Peer-to-Peer
Networks
(Jointly Supervised with Prof. Rashid Ansari)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2010
Position: Software Engineer, Astek, Sophia Antipolis, France.

Edmond Gjondrekaj

Clustering and Similarity Analyses of miRNA Assay by Means of Reprogrammable Devices
Department of Electrical & Computer Engineering

University of Illinois at Chicago
Chicago, Illinois
2010

Alberto Mannari

Enhanced Frame Buffer Management for HEVC Encoders and Decoders
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2015

Position: Specialist Electronics Engineer, Teoresi Inc., Burr Ridge, Illinois; Software Developer, IBM, San Jose, California, and Rüschtikon, Zurich, Switzerland.

Vasundhara Goyal

Generation of Stereoscopic Video From Monocular Image Sequences Based on Epipolar Geometry
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2017

Position: Embedded Software Developer, Pi Square Technologies, Farmington, Michigan; Senior Embedded Software Developer, Lead and Scrum Master, ASML, Wilton, Connecticut; ADAS Feature & Software Developer, Ford Motor Company, Dearborn, Michigan.

Akreem Talal Mohammed Saeed

Location Based Assistant on Android Platform
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2017

Position: Lecturer and Director of Information Technology Services, Ninevah University, Mosul, Iraq.

Lorenzo Norcini

Attention-Guided Mask Propagation for Video Object Segmentation
Department of Computer Science
University of Illinois at Chicago
Chicago, Illinois
2019

Position: Senior Software Development Engineer, Amazon Web Services, Seattle, Washington.

Francesca Pistilli

GraphPointNet: Graph Convolutional Neural Network for Point Cloud Denoising
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2019

Position: Doctoral Student, Politecnico di Torino, Turin, Italy; Assistant Professor, Politecnico di Torino, Turin, Italy.

Francesco Donato

CoTraM: Convolutional Transformer for Multichannel Time-Series Classification
(Jointly Supervised with Prof. Bharati Prasad)

Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2023

Position: Machine Learning Research Engineer, Istituto Italiano di Tecnologia, Genoa, Italy; Machine Learning Research Engineer, Sony Interactive Entertainment, San Mateo, California.

Matteo Carnevale Schianca

Deep Joint Denoising and Compression for Satellite Images
(Jointly Supervised with Prof. Enrico Magli)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
Chicago, Illinois
2025
Position: TBD.

P.6. Masters Project Students

Neil Zalut

“Linear Restoration of Medical Images: An Overview”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1993

Branislav Kisacanin

“A Fast Thresholded Linear Convolution Representation of Morphological Operations”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1993

Alan Baumgartner

“Morphological Segmentation of Computed Tomography Images”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1994

Alvin Ng

“Spatially-Variant Morphological Skeleton Representation”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1994

Smriti Anand

“Efficient Fast Reconstruction Algorithms in Computerized Tomography”
Department of Electrical Engineering and Computer Science

University of Illinois at Chicago
Chicago, Illinois, May 1995

Stephan W. Wegerich

“Subband Image Restoration and Blur Identification Using the EM Algorithm and Cross-Filtering”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1995

Robert Werckmeister

“Performance Analysis of Video Communications in Multimedia Networks”
(Jointly Supervised with Prof. Ouri Wolfson)
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1996

Margaret Kelton

“A Fast Method for Transform Conversion for Use in Image Processing”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1998

Kailash Ravishankar

“Frequency Prediction of High-Order Autoregressive Moving Average Sequences”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1998

Amir Yafe

“Transmission of MPEG-2 Streams Over Packet-Switched Networks”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1998

Steven J. Doering

“Digital Modulation: Applications to CDMA Communication Systems (IS-95)”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois
1999

Abhijit Bhattacharya

“MPEG-1 and H.263 Video Decoding on Motorola GSM Cellular Phone”
Department of Electrical Engineering and Computer Science
University of Illinois at Chicago
Chicago, Illinois

1999

Qin Cai

“Differentiated Transmission of MPEG-2 Video Bitstream Over Communication Networks”

(Jointly Supervised with Prof. Rashid Ansari)

Department of Electrical Engineering and Computer Science

University of Illinois at Chicago

Chicago, Illinois

2000

Q. RESEARCH GRANTS

D. Schonfeld (PI)

“Morphological image representation: Theory and applications”

Office of Naval Research (ONR)

\$150,000

1991-1995

S. Corson (PI) and D. Schonfeld (Co-PI)

“Parallel processing research”

University of Illinois

Campus Research Board (CRB)

\$14,995

1994-1995

R. Ansari (PI), P. Hesketh (Co-PI), and D. Schonfeld (Co-PI)

“One-step process for instant ticket validation”

GTECH Corporation

\$5,000

1997

D. Schonfeld (PI)

“National Communications Forum”

International Engineering Consortium (IEC)

\$500

2000

D. Schonfeld (PI)

“Real-Time Very-Low Bit-Rate MPEG-4 Video Compression for Wireless Communication Application”

Neomagic Corporation

\$69,553

2001-2003

A. Khokhar (PI), R. Ansari (Co-PI), R. Grossman (Co-PI), D. Schonfeld (Co-PI), and C. Yu (Co-PI)

“High-Speed Terabyte Storage Server Based on Intelligent Disk Technology”

Army Research Office (ARO)

DURIP Program

\$422,626

2002-2004

D. Schonfeld (PI)

“Computer Architectures for Real-Time Video Communications”

Neomagic Corporation

\$76,075

2002-2004

M. Dutta (PI) et al.

“Design of a Super-Biological Eye Sensor System”

Defense Advanced Research Projects Agency (DARPA)

Army Research Office (ARO)

\$200,000 (Seed Project)

2002-2003

D. Schonfeld (PI)

“OMAP Code Composure Studio Software for Real-Time Video Communications”

Texas Instruments, Inc.

DSP University Program

\$4,500

2003

D. Schonfeld (PI)

“Real-Time Object Tracking of Video Sequences on Associative Processor Arrays”

Neomagic Corporation

\$68,750

2003-2005

D. Schonfeld (PI)

“Real-Time Low-Power High-Quality Interactive Video Telephony
for Wireless Communication Applications”

Motorola, Inc.

\$19,331

2004-2005

D. Schonfeld (PI)

“Real-Time Low-Power High-Quality Interactive Video Communications
for Video Animation and Stereography”

Motorola, Inc.

\$22,000

2005-2006

D. Schonfeld (PI)

“Real-Time High-Quality Video Communications from Handheld Cameras
Using Video Stabilization and Auto-Focus”

Motorola, Inc.

\$75,000

2005-2008

D. Schonfeld (PI)

“Interactive Video Communications Based on Stereographic Imaging

From a Single Camera”
Motorola, Inc.
\$22,000
2006-2007

A. Khokhar (PI) and D. Schonfeld (Co-PI)
“MotionSearch: Motion Trajectory-Based Object Activity Retrieval and Recognition from Video and Sensor Databases”
National Science Foundation (NSF)
\$410,000
2006-2009

D. Schonfeld (PI)
“Real-Time Financial Forecasting Based on Statistical Signal Processing: Correlation Analysis and Fast Algorithms”
Gelber Group
\$66,522
2006-2007

D. Schonfeld (PI)
“Signal Communication and Processing in a RFID Sensor Network System”
Your Life Essentials
\$4,000
2006-2008

D. Schonfeld (PI)
“MobilePlenoptics: Panoramic Video Communications in Mobile Devices”
Motorola, Inc.
\$22,000
2007-2008

D. Schonfeld (PI)
“Machine Learning and Event Detection in Biological Systems”
VG Bioinformatics, Inc.
\$40,000
2007-2008

A. Khokhar (PI) and D. Schonfeld (Co-PI)
“International Supplement to MotionSearch: Motion Trajectory-Based Object Activity Retrieval and Recognition from Video and Sensor Databases”
National Science Foundation (NSF)
\$37,468
2007-2008

D. Schonfeld (PI)
“InteractiveVision: Collaborative Multiple-Input-Multiple-Output Inverse Problems with Application in Image and Video Processing”
National Science Foundation (NSF)
\$232,496
2007-2010

A. Khokhar (PI) and D. Schonfeld (Co-PI)

“Research Experiences for Undergraduates (REU) Supplement to MotionSearch: Motion Trajectory-Based Object Activity Retrieval and Recognition from Video and Sensor Databases”

National Science Foundation (NSF)

\$12,000

2008-2009

D. Schonfeld (PI)

“Real-time Superresolution for Enhanced Video Streaming”

iKoa Corporation

\$25,000

2008-2009

D. Schonfeld (PI)

“Tracking Performance Evaluation based on a Reflective Model and Perturbation Analysis”

Mitsubishi Electric Research Laboratories (MERL)

\$1,228

2009

R. Magin (PI), M. Ragozzino (Co-PI), K. Rockne (Co-PI), T. Royston (Co-PI), and D. Schonfeld (Co-PI)

“Acquisition of a High Field Magnetic Resonance Imaging System for Science and Engineering Research”

National Science Foundation (NSF)

\$1,995,000

2009

D. Schonfeld (PI), N. Bouaynaya (Key/Senior Personnel), and H.M. Fathallah-Shaykh (Key/Senior Personnel)

“Minimal-Perturbation Dynamic Control of the Melanoma Gene Regulatory Network” (R01)

National Institutes of Health (NIH)

\$1,200,000

2010-2015

X. Joe Zhou (PI), D. Schonfeld (Co-PI), H. Engelhard (Co-PI), R. Magin (Co-PI), and T. Valyi Nagy (Co-PI)

“Probing Intra-voxel Tissue Heterogeneity Using MRI” (R01)

National Institutes of Health (NIH)

NIH R01EB026716-01

\$2,173,399

2018-2023

D. Schonfeld (PI)*

“University of Illinois - New Oriental Artificial Intelligence Research Laboratory (UINO-AIRL)”

New Oriental Education & Technology Group Inc.

\$1,600,425

2019-2024

* Funding was approved by the research sponsor but declined by the university because of potential conflict with export controls.

B. Prasad (PI), D. Schonfeld (Co-Investigator), S. Basu (Collaborator), M. Maienschein-Cline (Collaborator)
“Machine Learning and Exosome Derived Biomarkers of Obstructive Sleep Apnea Induced Hypertension”
National Institutes of Health (NIH)
NIH 1R56HL157182-01A1
\$676,935
2022-2024

R. ADMINISTRATIVE ACTIVITIES

R.1. Administrative Positions

Director
University-Industry Engineering Research Center (UIERC)
College of Engineering
University of Illinois at Chicago
2008—2011

Supervisor
Web Development
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2001—2002

Director
Timetable Schedule
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1999—2000

R.2. University Committees

Co-Chair
University All-Campus Promotion and Tenure Committee
University of Illinois at Chicago
2010—2011

Member
Graduate College Executive Committee
University of Illinois at Chicago
2020—2022

Member
COVID-19 Relief Fund Application Review Committee
University of Illinois at Chicago
2022

Member
Dean Review Committee
University of Illinois at Chicago
2017—2018

Member
Graduate Mentor Award Committee
University of Illinois at Chicago
2014—2016

Member
Chancellor's Graduate Research Fellowship Program
University of Illinois at Chicago
2014—2016

Member
University Vision and Strategy
University of Illinois at Chicago
2012—Present

Member
University Ad-Hoc Advisory Committee for the Office of Faculty Affairs
University of Illinois at Chicago
2012—2013

Member
University Task Force to Review Non-Tenure Promotion Guidelines
University of Illinois at Chicago
2011—2012

Member
University Promotion and Tenure Norms and Criteria Committee
University of Illinois at Chicago
2011—2012

Member
University Honorary Degree Nominating Committee
University of Illinois at Chicago
2010—2011

Member
University Promotion and Tenure Seminar Panel
Natural Science, Health Science, and Engineering
University of Illinois at Chicago
2010—2011

Member
University All-Campus Promotion and Tenure Committee
University of Illinois at Chicago
2008—2011

Member
University Campus Research Board Committee
University of Illinois at Chicago
2001—2004

Member
University Awards Committee
University of Illinois at Chicago
1998—2001

Member
Student Appeals Board
University of Illinois at Chicago
2004—2005

R.3. College Committees

Member
College Executive Committee
College of Engineering
University of Illinois at Chicago
2009-2012, 2015-2017; 2019-2020; 2022-2023

Member
Dean of the College of Engineering Search Committee
College of Engineering
University of Illinois at Chicago
2007-2008

Member
Wexler Chair in Information Technology Search Committee
College of Engineering
University of Illinois at Chicago
2006

Member
Advisory Committee for Bioinformatics Program in Bioengineering
University of Illinois at Chicago
2000—2010

Chair
Networking Curriculum Subcommittee
College of Engineering
University of Illinois at Chicago
2005

Member
Departmental Reorganization and Formation Committee
College of Engineering
Department of Electrical Engineering & Computer Science

University of Illinois at Chicago
1999—2000

R.4. Departmental Committees

Mentoring Coordinator

Department of Electrical & Computer Engineering
University of Illinois at Chicago
2021—Present

Chair

Departmental Faculty Search Committee

Department of Electrical & Computer Engineering
University of Illinois at Chicago
2006-2008; 2010-2011; 2016-2017

Chair

Departmental Grievance Committee

Department of Electrical & Computer Engineering
University of Illinois at Chicago
2013—2019

Chair

Departmental Research & Colloquium Committee

Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1996—1998; 2003—2004

Chair

Departmental Seminar Committee

Department of Electrical & Computer Engineering
University of Illinois at Chicago
2008—2010

Chair

Departmental Web Committee

Department of Electrical & Computer Engineering
University of Illinois at Chicago
2001—2003

Chair

Departmental Web & Computer Committee

Department of Electrical & Computer Engineering
University of Illinois at Chicago
2020-2021

Member

Department of Mathematics, Statistics, and Computer Science

Personnel Review Committee for Jing Wang
2020—2021

Member

Departmental Advisory Committee

Department of Electrical & Computer Engineering

University of Illinois at Chicago

1995—1996; 1998—1999; 2000—2002; 2004—2005; 2007—2010; 2015—2016; 2022—Present

Member

Departmental Computer Committee

Department of Electrical & Computer Engineering

University of Illinois at Chicago

1990—1992; 2001—2004

Member

Departmental Computer & Web Committee

Department of Electrical & Computer Engineering

University of Illinois at Chicago

2013—2016

Member

Departmental Diversity & Inclusion Committee

Department of Electrical & Computer Engineering

University of Illinois at Chicago

2020—2021

Member

Departmental Electronics Instructional Laboratory Committee

Department of Electrical Engineering & Computer Science

University of Illinois at Chicago

1997—1998

Member

Departmental Faculty Search Committee

Department of Electrical Engineering & Computer Science

University of Illinois at Chicago

1994—1995; 1998—2001; 2006—2008; 2010-2011; 2016—2017; 2021—Present

Member

Departmental Graduate Admission and Recruitment

Department of Electrical & Computer Engineering

University of Illinois at Chicago

2022—2023

Member

Departmental Graduate Committee

Department of Electrical Engineering & Computer Science

University of Illinois at Chicago

1995—2000; 2011—2015

Member

Departmental Grievance Committee

Department of Electrical & Computer Engineering
University of Illinois at Chicago
2012—2021

Member

Departmental Promotion & Tenure Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
1996—Present

Member

Departmental Research & Colloquium Committee
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1992—1998; 2001—2004

Member

Departmental Scholarship Committee
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1990—1996

Member

Departmental Scholarship & Awards Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2019—2023

Member

Departmental Seminar Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2008—2013

Member

Departmental Undergraduate Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
1998 – 2003; 2005 – 2011; 2015—2019; 2023 – Present

Member

Departmental Web Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2000—2011

Member

Departmental Web & Computer Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago

2019-2021

R.5. Curriculum Committees

Chair

Departmental Communications and Networks Curriculum Subcommittee

of the Undergraduate and Graduate Committees
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2001—2002; 2004

Chair

Departmental Signal Processing Curriculum Subcommittee

of the Undergraduate and Graduate Committees
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2011

Member

Departmental Communications Curriculum Subcommittee

of the Undergraduate and Graduate Committees
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2011

Member

Departmental Communications and Networking Curriculum Subcommittee

of the Undergraduate and Graduate Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2001—2002; 2004

Member

Departmental Computer Engineering Curriculum Subcommittee

of the Undergraduate and Graduate Committee
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1998—2002

Member

Departmental Electrical Engineering Curriculum Subcommittee

of the Undergraduate and Graduate Committee
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1996—2000

Member

Departmental Imaging Curriculum Subcommittee

of the Undergraduate and Graduate Committees
Department of Electrical Engineering & Computer Science

University of Illinois at Chicago
1993

Member

Departmental Information and Computer Systems Curriculum Subcommittee
of the Undergraduate and Graduate Committees
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2011

Member

Departmental Masters of Engineering Program Subcommittee
of the Graduate Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2005

Member

Departmental Multimedia Curriculum Subcommittee
of the Undergraduate and Graduate Committees
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
2005

Member

Departmental Networking Curriculum Subcommittee
of the Undergraduate and Graduate Committees
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1999—2000; 2005

Member

Departmental Signals and Systems Curriculum Subcommittee
of the Graduate Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2004

Member

Departmental Signal Processing Curriculum Subcommittee
of the Undergraduate and Graduate Committees
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2011

Member

Departmental Signal Processing and Communications Curriculum Subcommittee
of the Undergraduate and Graduate Committees
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1991

Member

Departmental Student Cheating Policy Subcommittee
of the Undergraduate Committee
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1999

Member

Departmental Teaching Assistant Assignment Subcommittee
of the Undergraduate Committee
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1996—1997

Member

Departmental Teaching Assistant Award Subcommittee
of the Scholarship Committee
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1994

R.6. Qualifier Committees

Chair

Departmental Communications Qualifier Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2003—2004; 2012

Chair

Departmental Computer Communication Network Qualifier Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
2002—2003; 2005

Chair

Departmental Signal Processing Qualifier Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
1991—1995; 2001; 2002; 2008—2014, 2015—Present

Member

Departmental Communications Qualifier Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
1997—2004; 2009—2014

Member

Departmental Computer Communications Networks Qualifier Committee

Department of Electrical & Computer Engineering
University of Illinois at Chicago
2002—2005

Member

Departmental Computer Vision Qualifier Committee
Department of Electrical Engineering & Computer Science
University of Illinois at Chicago
1993—2001

Member

Departmental Signal Processing Qualifier Committee
Department of Electrical & Computer Engineering
University of Illinois at Chicago
1991—2001; 2004—Present

R.7. Research Laboratories and Centers

Director

University-Industry Engineering Research Center (UIERC)
College of Engineering
University of Illinois at Chicago
2008—2011

Co-Director

Multimedia Communications Laboratory (MCL)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
1997—Present

Member

Departmental Signal and Image Research Laboratory (SIRL)
Department of Electrical & Computer Engineering
University of Illinois at Chicago
1991—2002

S. TEACHING ACTIVITIES

S.1. The Johns Hopkins University

ECE 137
Digital Signals and Systems
Fall 1987

ECE 137
Digital Signals and Systems
Fall 1988

ECE 137
Digital Signals and Systems
Fall 1989

S.2. University of Illinois at Chicago

EECS 212
Signal Processing
Fall 1990

EECS 212
Signal Processing
Winter 1991

EECS 416
Advanced Topics in Digital Signal Processing
Spring 1991

EECS 417
Digital Signal Processing
Fall 1991

EECS 554
Estimation Theory
Fall 1991

EECS 311
Communication Engineering
Spring 1992

EECS 554
Estimation Theory
Fall 1992

EECS / BioE 479
Real-Time Data Processing
Spring 1993

EECS / BioE 479
Real-Time Data Processing
Fall 1993

EECS 516
Optimal and Adaptive Digital Filters
Fall 1993

EECS 517
Image Processing
Spring 1994

EECS / BioE 479
Real-Time Data Processing
Fall 1994

EECS 517
Image Processing
Spring 1995

EECS 531
Detection and Estimation Theory
Spring 1995

EECS / BioE 479
Real-Time Data Processing
Fall 1995

EECS 517
Image Processing
Spring 1996

EECS 531
Detection and Estimation Theory
Spring 1996

EECS 530
Statistical Communication Theory
Fall 1996

EECS 517
Image Processing
Spring 1997

EECS / BioE 407
Pattern Recognition
Fall 1997

EECS 530
Statistical Communication Theory
Fall 1997

EECS / BioE 407
Pattern Recognition
Spring 1998

EECS 517
Image Processing
Spring 1998

EECS 517
Image Processing
Motorola Campus

Spring 1998

EECS 171

Introduction to Programming
Summer 1998

EECS 516

Optimal and Adaptive Digital Filters
Fall 1998

EECS 530

Statistical Communication Theory
Motorola Campus
Fall 1998

EECS 418

Digital Signal Processing II
Spring 1999

EECS 517

Image Processing
Spring 1999

EECS 531

Detection and Estimation Theory
Motorola Campus
Spring 1999

EECS 171

Introduction to Programming
Summer 1999

EECS 417

Digital Signal Processing I
Fall 1999

EECS 491

Multimedia Communication Networks
Spring 2000

EECS 311

Communication Engineering
Summer 2000

EECS 491

Multimedia Communication Networks
Internet Course (Preparation)
Fall 2000

EECS 516

Optimal and Adaptive Digital Filters

Fall 2000

EECS 531

Detection and Estimation Theory

Fall 2000

EECS 491

Multimedia Communication Networks

Internet Course

Spring 2001

EECS 517

Image Processing

Spring 2001

EECS 171

Introduction to Programming

Summer 2001

ECE 516

Optimal and Adaptive Digital Filters

Fall 2001

ECE 531

Detection and Estimation Theory

Fall 2001

ECE 434

Multimedia Communication Networks

Internet Course

Spring 2002

ECE 517

Image Processing

Spring 2002

CS 102

Introduction to Programming

Summer 2002

ECE 433

Computer Communication Networks

Fall 2002

ECE 434

Multimedia Communication Networks

Fall 2002

ECE 333

Computer Communication Networks

Laboratory (Preparation)

Spring 2003

ECE 311

Communication Engineering

Fall 2003

ECE 434

Multimedia Communication Networks

Fall 2003

ECE 517

Image Processing

Spring 2004

ECE 434

Multimedia Communication Networks

Fall 2004

ECE 516

Optimal and Adaptive Digital Filters

Fall 2004

ECE 517

Image Processing

Spring 2005

ECE 311

Communication Engineering

Summer 2005

ECE 434

Multimedia Systems

Fall 2005

ECE 516

Optimal and Adaptive Digital Filters

Fall 2005

ECE 517

Image Processing

Spring 2006

ECE 311

Communication Engineering

Summer 2006

ECE 434

Multimedia Systems

Fall 2006

ECE 516

Optimal and Adaptive Digital Filters
Fall 2006

ECE 531
Detection and Estimation Theory
Spring 2007

ECE 311
Communication Engineering
Summer 2007

ECE 434
Multimedia Systems
Fall 2007

ECE 516
Optimal and Adaptive Digital Filters
Fall 2007

ECE 531
Detection and Estimation Theory
Spring 2008

ECE 434
Multimedia Systems
Fall 2008

ECE 516
Optimal and Adaptive Digital Filters
Fall 2008

ECE 530
Random Signal Analysis
Spring 2009

ECE 517
Image Processing
Fall 2009

ECE/BIOE 407
Pattern Recognition
Spring 2010

ECE 434
Multimedia Systems
Fall 2010

ECE 530
Random Signal Analysis
Spring 2011

ECE 434
Multimedia Systems
Fall 2011

ECE 530
Random Signal Analysis
Spring 2012

ECE 594
Machine Learning
Spring 2012

ECE 434
Multimedia Systems
Fall 2012

ECE 517
Image Processing
Fall 2012

ECE 530
Random Signal Analysis
Spring 2013

ECE 434
Multimedia Systems
Fall 2013

ECE 517
Image Processing
Fall 2013

ECE 434
Multimedia Systems
Fall 2014

ECE 517
Image Processing
Fall 2014

ECE 434
Multimedia Systems
Fall 2015

ECE 517
Image Processing
Fall 2015

ECE 434
Multimedia Systems
Fall 2015

ECE 517

Image Processing
Fall 2015

ECE 407

Pattern Recognition
Spring 2016

ECE 530

Random Signal Analysis
Spring 2016

ECE 434

Multimedia Systems
Fall 2016

ECE 517

Image Processing
Fall 2016

ECE 407

Pattern Recognition
Spring 2017

ECE 434

Multimedia Systems
Fall 2017

ECE 517

Image Processing
Fall 2017

ECE 517

Image Processing
Spring 2018

ECE 530

Random Signal Analysis
Spring 2018

ECE 434

Multimedia Systems
Fall 2018

ECE 517

Image Processing
Fall 2018

ECE 530

Random Signal Analysis

Spring 2019

ECE 434

Multimedia Systems

Fall 2019

ECE 517

Image Processing

Spring 2020

ECE 530

Random Signal Analysis

Spring 2020

ECE 434

Multimedia Systems

Fall 2020

ECE 530

Random Signal Analysis

Spring 2021

ECE 531

Detection and Estimation Theory

Spring 2021

ECE 434

Multimedia Systems

Fall 2021

ECE 517

Image Processing

Fall 2021

ECE 530

Random Signal Analysis

Spring 2022

ECE 531

Detection and Estimation Theory

Spring 2022

ECE 434

Multimedia Systems

Fall 2022

ECE 517

Image Processing

Fall 2022

ECE 530

Random Signal Analysis
Spring 2023

ECE 434
Multimedia Systems
Fall 2023

ECE 517
Image Processing
Fall 2023

ECE 317
Digital Signal Processing I
Spring 2024

S.3. University of Trento

Content-Based Video Analysis: Tracking, Retrieval, and Classification
Information and Communication Technology (ICT) – International Doctoral School
Department of Information Engineering and Computer Science
University of Trento
May 2010

DAN SCHONFELD

2720 Canterbury Dr.

Northbrook, IL 60062

E-mail: schonfeld.dan@gmail.com

URL: <http://dans.people.uic.edu>

Phone: (312) 996-5847

Cell: (847) 387-0052

Google: (872) 216-2844

Skype: dan_schonfeld

A. LITIGATION CONSULTING EXPERIENCE

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.

Headwater Research LLC v. Samsung Co., Ltd et al.

USDC Eastern District of Texas

Civil Action No. 2:24-cv-00228-JRG-RSP

Multimedia Systems (Multimedia Communications)

Atlanta, Georgia

2025 – Present

Consultant and Expert Witness

Hogan Lovells international LLP on behalf of Amazon Digital UK Limited, Amazon Europe Core SARL, Amazon EU SARL, Amazon.com, Inc. and Amazon Media EU SARL

InterDigital, Inc. et al. v. Amazon Digital UK Limited et al.

High Court of Justice – Business and Property Courts of England and Wales

Intellectual Property List (ChD) – Patents Court

Case No. [TBA]

Multimedia Systems (Video Coding)

London, United Kingdom

2025 – Present

Consultant and Expert Witness

DLA Piper LLP on behalf of Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.

Maxell Ltd. v. Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.

International Trade Commission

ITC 337-TA-1432

Multimedia Systems (Camera System)

Los Angeles, California

2025 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Bytedance Ltd., Bytedance Pte. Ltd., TikTok Pte. Ltd., and TikTok Inc.

ShopSee, Inc. v. Tiktok, Inc.

USDC Western District of Texas

Civil Action 7:24-cv-00333-DC-DTG

Multimedia Systems (Video Processing)

Redwood Shores, California

2025 – Present

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of ASUSTeK Computer Inc. and ASUS Computer International
Nokia Technologies Oy v. ASUSTeK Computer Inc. and ASUS Computer International
International Trade Commission
ITC 337-TA-1448
Multimedia Systems (Video Coding)
Washington, D.C.
2025 – Present

Consultant and Expert Witness

O'Melveny & Myers LLP on behalf of [TBA]
[TBA]
Unified Patent Court (UPC) Munich Regional Court
Multimedia Systems (Video Coding)
Los Angeles, California
2025 – Present

Consultant and Expert Witness

O'Melveny & Myers LLP on behalf of [TBA]
[TBA]
Unified Patent Court (UPC) Mannheim Local division
Multimedia Systems (Video Coding)
Los Angeles, California
2025 – Present

Consultant and Expert Witness

O'Melveny & Myers LLP on behalf of [TBA]
[TBA]
Unified Patent Court (UPC) Dusseldorf Local Division
Multimedia Systems (Video Coding)
Los Angeles, California
2025 – Present

Consultant and Expert Witness

O'Melveny & Myers LLP on behalf of [TBA]
[TBA]
7th Corporate Court of the District of the Capital of the State of Rio De Janeiro in Brazil
Multimedia Systems (Video Coding)
Los Angeles, California
2025 – Present

Consultant and Expert Witness

O'Melveny & Myers LLP on behalf of [TBA]
[TBA]
USDC Central District of California
Civil Action No. [TBA]
Multimedia Systems (Video Coding)
Los Angeles, California
2025 – Present

Consultant and Expert Witness

Freshfields US LLP on behalf of [TBA]

[TBA]

Judicial Arbitration and Mediation Services (JAMS)

Reference No. 5240003267

Multimedia Systems (Video Coding)

New York, New York

2025 – Present

Consultant and Expert Witness

Venable, LLP on behalf of Lenovo Group Limited, Lenovo (United States) Inc., and Motorola Mobility LLC

C47 Technologies LLC v. Lenovo Group LTD

USDC Eastern District of Texas

Civil Action No. 2:24-cv-00372-JRG

Civil Action No. 2:24-cv-00406-JRG

Multimedia Systems (Image Processing)

Chicago, Illinois

2025 – Present

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.

Headwater Research LLC v. Samsung Co., Ltd et al.

USDC Eastern District of Texas

Civil Action No. 2:24-cv-00627-JRG-RSP

Multimedia Systems (Multimedia Communications)

Atlanta, Georgia

2025 – Present

Consultant and Expert Witness

DLA Piper LLP on behalf of Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.

Maxell Ltd. v. Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.

USDC Eastern District of Texas

Civil Action No. 5:25-cv-00052

Multimedia Systems (Display Devices)

Boston, Massachusetts

2025 – Present

Consultant and Expert Witness

Wilson Sonsini Goodrich & Rosati P.C. on behalf of SZ DJI Technology Co. Ltd.

Contour IP Holding, LLC v. SZ DJI Technology Co. Ltd.

Inter Partes Review

U.S. Patent Trial and Appeal Board

Multimedia Systems (Camera Systems)

Palo Alto, California

2025 – Present

Consultant and Expert Witness

DLA Piper LLP on behalf of Citrix Systems, Inc.

T5.2 Ltd. v. Citrix Systems, Inc.

USDC Southern District of Florida
Civil Action No. 0:24-cv-62093
Multimedia Systems (Graphics Systems)
Austin, Texas
2025 – Present

Consultant and Expert Witness

Merchant & Gould P.C. on behalf of Coretronic Corp. and Optoma Corp.
Maxell, Ltd. v. Coretronic Corp. and Optoma Corp.
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Display Devices)
Washington, D.C.
2025 – Present

Consultant and Expert Witness

Merchant & Gould P.C. on behalf of Coretronic Corp. and Optoma Corp.
Maxell, Ltd. v. Coretronic Corp. and Optoma Corp.
USDC Eastern District of Texas
Civil Action No. 5:24-cv-00088
Multimedia Systems (Display Devices)
Washington, D.C.
2025 – Present

Consultant and Expert Witness

Orrick, Herrington & Sudcliffe LLP, on behalf of Motorola Mobility LLC
Multifold International Inc. Pte. Ltd. v. Motorola Mobility LLC
USDC District of Delaware
Civil Action No. 1:23-cv-1173
Multimedia Systems (Multi-Screen Devices and User Interfaces)
Los Angeles, California
2025 – Present

Consultant and Expert Witness

Hogan Lovells international LLP on behalf of Amazon Digital UK Limited, Amazon Europe Core SARL, Amazon EU SARL, Amazon.com, Inc. and Amazon Media EU SARL
Alcatel Lucent SAS et al. v. Amazon Digital UK Limited et al.
High Court of Justice – Business and Property Courts of England and Wales
Intellectual Property List (ChD) – Patents Court
Case No. HP-2023-000038
Multimedia Systems (Video Coding)
London, United Kingdom
2025 – Present

Consultant and Expert Witness

DLA Piper LLP on behalf of Amazon.com, Inc., Amazon.com Services LLC, Amazon Web Services, Inc., and Twitch Interactive, Inc.
NL Giken Inc. v. Amazon.com et al.
USDC District of Delaware
Civil Action No. 1:24-cv-00028-MN
Multimedia Systems (Video Systems)

Austin, Texas
2025 – Present

Consultant and Expert Witness

Haynes and Boone, LLP, on behalf of Intel Corporation
General Video, LLC, v. Dell Inc. and Dell Technologies Inc.
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Multimedia Interfaces)
Dallas, Texas
2024 – Present

Consultant and Expert Witness

Arnold & Porter Kaye Scholer LLP, on behalf of Google LLC
EyesMatch Ltd. v. Samsung Electronics Co., Ltd. et al.
USDC Eastern District of Texas
Civil Action No. 2-23-cv-00363
Multimedia Systems (Image Processing)
San Francisco, California
2024 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Bytedance Ltd., Bytedance Pte. Ltd.,
TikTok Pte. Ltd., and TikTok Inc.
NTECH Properties, Inc. v. ByteDance Ltd. et. al.
USDC Eastern District of Texas
Civil Action 2:24-cv-00130-JRG
Multimedia Systems (Video Streaming)
San Francisco, California
2024 – Present

Consultant and Expert Witness

Fenwick & West LLP on behalf of Amazon.com, Inc.
DivX, LLC v. Amazon.com, Inc. et al.
USDC Eastern District of Virginia
Civil Action No. 1:24-cv-02061-CMH-LRV
Multimedia Systems (Multimedia Streaming)
Mountain View, California
2024 – Present

Consultant and Expert Witness

Shook, Hardy & Bacon LLP on behalf of HP Inc.
Universal Connectivity Technologies Inc. v. HP Inc.
USDC Northern District of California
Civil Action No. 4:24-04097-YGR
Multimedia Systems (Multimedia Communication Systems)
Kansas City, Missouri
2024 – Present

Consultant and Expert Witness

Fenwick & West LLP on behalf of Amazon.com, Inc., Amazon.com Services, Inc., and Amazon Web Services, Inc.

Flexiworld Tech., Inc. v. Amazon.com, Inc. et al.

USDC Western District of Washington

Civil Action No. 2:21-cv-01055-DGE

Multimedia Systems (Video Streaming)

New York, New York

2024 – Present

Consultant and Expert Witness

Latham & Watkins, LLP on behalf of Google LLC

Advanced Coding Technologies LLC v. Google LLC

USDC Eastern District of Texas

Civil Action No. 2:24-cv-00353

Multimedia Systems (Video Coding)

Costa Mesa, California

2024 – Present

Consultant and Expert Witness

Bayes PLLC on behalf of Linkplay Technology Inc.

Sonos, Inc. v. Linkplay Technology Inc.

USDC District of Delaware

Civil Action No. 1:24-cv-00131-UNA

Multimedia Systems (Audio Systems)

McLean, Virginia

2024 – Present

Consultant and Expert Witness

Knobbe, Martens, Olson & Bear, L.L.P. on behalf of Amazon.com, Inc., Amazon.com Services, LLC, and Amazon Web Services, Inc.

Audio Pod IP, LLC v. Amazon.Com, Inc. et al.

USDC Eastern District of Virginia

Civil Action No. 2:24-cv-00185

Civil Action No. 2:24-cv-00406

Civil Action No. 2:24-cv-00407

Multimedia Systems (Multimedia Synchronization)

Seattle, Washington

2024 – Present

Consultant and Expert Witness *

Fish & Richardson, P.C. on behalf of Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.

Headwater Research LLC v. Samsung Co., Ltd et al.

USDC Eastern District of Texas

Civil Action No. 2:23-cv-00641-JRG-RSP

Multimedia Systems (Multimedia Communications)

Atlanta, Georgia

2024 – Present

Consultant and Expert Witness

Hueston Hennigan LLP on behalf of Amazon.Com, Inc., Amazon Web Services, Inc., and Amazon.com Services, LLC.

Kaifi LLC v. Amazon.Com, Inc. et al.

USDC Eastern District of Texas

Civil Action No. 2:2024-cv-00542-JRG

Multimedia Systems (Speech Recognition)

Newport Beach, California

2024 – Present

Consultant and Expert Witness

Paul Hastings LLP on behalf of Samsung Electronics America, Inc. and Samsung Electronics Co., Ltd.

Anonymous Media Research Holdings v. Samsung Electronics Co. et al.

USDC Eastern District of Texas

Civil Action No. 2:23-cv-00439-JRG

Multimedia Systems (Pattern Recognition)

San Diego, California

2024 – Present

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.

Perkins Coie and Fenwick & West, on behalf of Amazon.com, Inc.

Nokia Technologies Oy v. HP Inc.

USDC District of Delaware

Civil Action No. 1:23-cv-01237

Multimedia Systems (Video Coding)

Palo Alto, California

2024 – Present

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.

Perkins Coie and Fenwick & West, on behalf of Amazon.com, Inc.

Nokia Technologies Oy v. Amazon.com, Inc. et al.

USDC District of Delaware

No. 1:23-cv-01236-GBW

Multimedia Systems (Video Coding)

Palo Alto, California

2024 – Present

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.

Perkins Coie and Fenwick & West, on behalf of Amazon.com, Inc.

Nokia Corporation v. Amazon.com, Inc. et al.

USDC District of Delaware

No. 1:23-cv-01232-GBW

Multimedia Systems (Video Coding)

Palo Alto, California

2024 – Present

Consultant and Expert Witness * **

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.

Perkins Coie and Fenwick & West, on behalf of Amazon.com, Inc.
Nokia Technologies Oy v. HP Inc.
International Trade Commission
ITC 337-TA-1380
Multimedia Systems (Video Coding)
Palo Alto, California
2024 – Present

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.
Perkins Coie and Fenwick & West, on behalf of Amazon.com, Inc.
Nokia Technologies Oy v. HP Inc.
International Trade Commission
ITC 337-TA-1379
Multimedia Systems (Video Coding)
Palo Alto, California
2024 – Present

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.
VideoLabs, Inc. v. HP, Inc.
USDC Western District of Texas
Civil Action No. 6:23-cv-0641
Multimedia Systems (Video Coding)
Houston, Texas
2023 – Present

Consultant and Expert Witness

Baker Botts, LLP, on behalf of Netflix, Inc.
Netflix, Inc. v. Broadcom, Avago, VMware, Brocade
Multimedia Systems (Multimedia Communications)
San Francisco, California
2024 – Present

Consultant and Expert Witness *

Fish & Richardson, P.C. on behalf of Microsoft Corporation
Proxense, LLC v. Microsoft Corporation
USDC Western District of Texas
Civil Action No. 6:2023-cv-00319
Multimedia Systems (Biometric and Security Systems)
Houston, Texas
2024 – Present

Consultant and Expert Witness

Tesla, Inc.
Monument Peak Ventures, LLC v. Tesla, Inc.
USDC Western District of Texas
Civil Action No. 6:23-cv-750
Multimedia Systems (Image Processing)
Chicago, Illinois
2024 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of ServiceNow, Inc.
InQuisient Inc. v. ServiceNow, Inc.
USDC District of Delaware
Civil Action No. 22-900 (CJB)
Multimedia Systems (Software Systems)
Redwood City, California
2024 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of GoPro Inc.
GoPro Inc. v. Arashi Vision, LLC (d/b/a “Insta360”)
USDC Central District of California
Civil Action No. 4:23-cv-xxxx
Multimedia Systems (Video Processing)
Los Angeles, California
2024 – Present

Consultant and Expert Witness * **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of GoPro Inc.
GoPro Inc. v. Arashi Vision, LLC (d/b/a “Insta360”)
International Trade Commission
ITC 337-TA-1400
Multimedia Systems (Video Processing)
Los Angeles, California
2024 – Present

Consultant and Expert Witness

Jones Day on behalf of JPMorgan Chase Bank, N.A.
Wapp Tech Limited Partnership et al. v. JPMorgan Chase Bank, N.A.
USDC Eastern District of Texas
Civil Action No. 4:23-cv-1137
Multimedia Systems (Software Applications)
Chicago, Illinois
2024 – Present

Consultant and Expert Witness

Perkins Coie LLP on behalf of Intel Corporation
Telefonaktiebolaget LM Ericsson v. Intel Corporation
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Video Coding)
Denver, Colorado
2024 – Present

Consultant and Expert Witness *

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of NVIDIA Corp.
Valeo Schalter und Sensoren GmbH v. NVIDIA Corp.
USDC Northern District of California
Civil Action No. 23-cv-5721

Multimedia Systems (Computer Vision)
New York, New York
2024 – Present

Consultant and Expert Witness

Jones Day on behalf of Nikon Corporation
Optimum Imaging Technologies LLC v. Nikon Corporation
USDC Eastern District of Texas
Civil Action No. 4:23-cv-00923
Multimedia Systems (Image and Video Processing)
Chicago, Illinois
2024 – Present

Consultant and Expert Witness * **

Morgan, Lewis & Bockius LLP on behalf of LG Electronics Inc. and LG Electronics U.S.A., Inc.
Multimedia Technologies Pte. Ltd. v. LG Electronics Inc., et al.
USDC Eastern District of Texas
Civil Action No. 2:22-cv-00494-JRG-RSP
Multimedia Systems (Television Systems)
Washington, D.C.
2024 – Present

Consultant and Expert Witness

Baker Botts, LLP, on behalf of Samsung Electronics Co., Ltd., Samsung Electronics America, Inc.,
and Samsung Research America, Inc.
EyesMatch Ltd. v. Samsung Electronics Co., Ltd. et al.
USDC Eastern District of Texas
Civil Action No. 2-23-cv-00363
Multimedia Systems (Image Processing)
Austin, Texas
2024 – Present

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.
Nokia Technologies Oy v. HP Inc.
USDC District of Delaware
Civil Action No. 1:23-cv-01237
Multimedia Systems (Video Coding)
Palo Alto, California
2023 – Present

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.
Nokia Technologies Oy v. HP Inc.
International Trade Commission
ITC 337-TA-1380
Multimedia Systems (Video Coding)
Palo Alto, California
2023 – Present

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.
Nokia Technologies Oy v. HP Inc.
International Trade Commission
ITC 337-TA-1379
Multimedia Systems (Video Coding)
Palo Alto, California
2023 – Present

Consultant and Expert Witness

Fenwick & West LLP on behalf of Amazon.com, Inc.
Nokia Corp. et al. v. Amazon.com, Inc.
USDC District of Delaware
Civil Action No. 1:23-CV-1232
Multimedia Systems (Video Coding)
Mountain View, California
2023 – Present

Consultant and Expert Witness

Fenwick & West LLP on behalf of Amazon.com, Inc., Amazon.com Services LLC, and Twitch Interactive, Inc.
Nokia Techs. OY v. Amazon.com, Inc. et al.
USDC District of Delaware
Civil Action No. 1:23-CV-1236
Multimedia Systems (Video Coding)
Mountain View, California
2023 – Present

Consultant and Expert Witness * **

Fish & Richardson, P.C. on behalf of Intel Corporation, Lenovo Group Limited, Lenovo (United States) Inc., and Motorola Mobility LLC
InterDigital, Inc. v. Lenovo et al.
International Trade Commission
ITC 337-TA-1373
Multimedia Systems (Video Coding)
Washington, D.C.
2023 – Present

Consultant and Expert Witness

Irell & Manella, LLP on behalf of Adeia Guides Inc, Adeia Media Solutions Inc. and Adeia Media Holdings LLC
Adeia Guides Inc, Adeia Media Solutions Inc. and Adeia Media Holdings LLC v. Shaw Cablesystems G.P. and Shaw Satellite G.P.
USDC Southern District of New York
Civil Action No. 1:2023-cv-08796
Multimedia Systems (Multimedia Communications)
Los Angeles, California
2023 – Present

Consultant and Expert Witness * **

Latham & Watkins, LLP on behalf of Renesas Electronics Corporation
DivX LLC v. Renesas Electronics Corporation

Judicial Arbitration and Mediation Services (JAMS)
Reference No. 5240001028
Multimedia Systems (Video Coding)
Austin, Texas
2023 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google LLC
Headwater Research LLC v. Samsung Electronics Co., et al.
USDC Eastern District of Texas
Civil Action No. 2:23-cv-00103-JRG-RSP
Multimedia Systems (Multimedia Communications)
Los Angeles, California
2023 – Present

Consultant and Expert Witness *

Morgan, Lewis & Bockius LLP on behalf of Post Acute Medical, LLC
Meridian Hospital Systems Corporation v. Post Acute Medical, LLC et al.
190th District Court of Harris County, Texas
Cause No. 2019-23790
Multimedia Systems (Software Systems)
Houston, Texas
2023 – Present

Consultant and Expert Witness *

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of NantWorks, LLC and Nant Holdings IP, LLC
NantWorks, LLC, et al. v. Bank of America Corporation, et al.
USDC Central District of California
Civil Action No. 2:20-cv-07872-GW-PVC
Multimedia Systems (Image Processing)
New York, New York
2023 – Present

Consultant and Expert Witness *

Fish & Richardson, P.C. on behalf of Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.
Advanced Coding Technologies LLC v. Samsung Electronics Co. Ltd. and Samsung Electronics America, Inc.
USDC Eastern District of Texas
Civil Action No. 2:22-cv-00499
Multimedia Systems (Video Coding)
Washington, D.C.
2023 – Present

Consultant and Expert Witness **

Fish & Richardson, P.C. on behalf of Samsung Electronics Co., Ltd.
Interdigital, Inc. v. Samsung Electronics Co., Ltd.
International Chamber of Commerce (ICC) International Court of Arbitration
Case No. 27699/PDP
Multimedia Systems (Video Coding)

Redwood City, California
2023 – Present

Consultant and Expert Witness

Duane Morris LLP on behalf of AT&T Corp.
SafeCast Limited v. AT&T Corp.
USDC Western District of Texas
Civil Action No. 6:22-cv-00676-ADA
Multimedia Systems (Broadcast Systems)
Atlanta, Georgia
2023 – Present

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of DISH Network Corporation; DISH Network L.L.C.; DISH Network Service L.L.C and DISH Network California Service Corporation
Entropic Communications, LLC v. DISH Network Corp. et al.
USDC Central District of California
Civil Action No. 2:2023-cv-01043
Multimedia Systems (Multimedia Communications)
Washington, D.C.
2023 – Present

Consultant and Expert Witness * **

Fish & Richardson, P.C. on behalf of Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.
Headwater Research LLC v. Samsung Co., LTD and Samsung Electronics America, Inc.
USDC Eastern District of Texas
Civil Action No. 2:22-cv-0422-JRG-RSP
Multimedia Systems (Multimedia Communications)
Atlanta, Georgia
2023 – Present

Consultant and Expert Witness

Goldenberg Heller & Antognoli, P.C. and Arias Sanguinetti Wang & Torrijos LLP on behalf of Glenn Kesselman *et al.*
Kesselman v. Toyota Motor Sales, U.S.A., Inc.
USDC Central District of California
Civil Action No. 2:21-cv-06010-AB-JC
Multimedia Systems (Bluetooth Communications and Echo Cancellation)
Edwardsville, Illinois
2023 – Present

Consultant and Expert Witness * **

Morgan, Lewis & Bockius LLP on behalf of HP, Inc.
VideoLabs, Inc. v. HP, Inc.
International Trade Commission
ITC 337-TA-1341
Multimedia Systems (Video Coding)
Houston, Texas
2023 – Present

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of Dolby Laboratories Licensing Corporation
Unified Patents, LLC v. Dolby Laboratories Licensing Corporation
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Video Coding)
Washington, D.C.
2023 – Present

Consultant and Expert Witness

Covington & Burling, LLP on behalf of Alps Alpine Co., Ltd.
DivX LLC v. Alps Alpine Co., Ltd.
Judicial Arbitration and Mediation Services (JAMS)
Reference No. 5240000289
Multimedia Systems (Video Coding)
Palo Alto, California
2022 – Present

Consultant and Expert Witness

Fenwick & West LLP on behalf of Amazon.com, Inc.
DivX, LLC v. Amazon.com, Inc.
USDC Eastern District of Virginia
Civil Action No. 1:22-cv-1201
Multimedia Systems (Multimedia Streaming)
Mountain View, California
2022 – Present

Consultant and Expert Witness * **

Fenwick & West LLP on behalf of Amazon.com, Inc.
DivX, LLC v. Amazon.com, Inc.
International Trade Commission
ITC 337-TA-1343
Multimedia Systems (Multimedia Streaming)
Mountain View, California
2022 – Present

Consultant and Expert Witness

Perkins Coie LLP on behalf of DISH Network Corp., DISH Network L.L.C., and Dish Network Service L.L.C.
Entropic Communications, LLC v. DISH Network Corp. et al.
USDC Eastern District of Texas
Civil Action No. 2:22-cv-00076-JRG
Multimedia Systems (Video On-Demand Systems)
Portland, Oregon
2022 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Dental Imaging Technologies, Corp. and Dental Imaging Technologies, Corp. d/b/a DEXIS
3Shape A/S v. Carestream Dental LLC et al.
USDC Northern District of Georgia

Civil Action No. 1:22-cv-01829-WMR
Multimedia Systems (Image Processing)
New York, New York
2022 – Present

Consultant and Expert Witness *

Baker Botts, LLP, on behalf of NEC Corporation
NEC Corporation v. Peloton Interactive, Inc., Our Body Electric, Inc. a/k/a Obe Fitness, Tone It Up, Inc., Gaia, Inc. and Yoga International, LLC
USDC District of Delaware
Civil Action No. 22-987-CFC
Multimedia Systems (Content Delivery)
New York, New York
2022 – Present

Consultant and Expert Witness

Foley & Lardner LLP on behalf of Vivint Smart Home, Inc. and Vivint, Inc.
Alarm.com v. Vivint Smart Home, Inc. and Vivint, Inc.
Multimedia Systems (Signal Processing)
Salt Lake City, Utah
2022 – Present

Consultant and Expert Witness

Arnold & Porter Kaye Scholer LLP, on behalf of itself and on behalf of Charter Communications Holding Company LLC, Charter Communications Inc., Charter Communications Operating LLC, and Spectrum Management Holding Company LLC
Davis Polk & Wardwell LLP, on behalf of itself and on behalf of Comcast Cable Communications LLC, Comcast Corporation, and NBCUniversal Media, LLC
Orrick Herrington & Sutcliffe LLP, on behalf of itself and on behalf of Altice USA Inc., CSC Holdings, LLC, and Cablevision Systems Corp.
Broadband iTV, Inc. v. Altice USA, Inc., et al.
International Trade Commission
ITC Dkt. No. 337-3616
Multimedia Systems (Video On-Demand Systems)
San Francisco, California
2022 – Present

Consultant and Expert Witness

Wilson Sonsini Goodrich & Rosati P.C. on behalf of Google LLC and YouTube LLC
Robocast, Inc. v. YouTube LLC
USDC District of Delaware
Civil Action No. 1-22-cv-00304
Multimedia Systems (Content Management)
Washington, DC
2022 – Present

Consultant and Expert Witness

DLA Piper LLP on behalf of Lenovo Group Ltd., Lenovo (United States) Inc., and Motorola Mobility LLC
Maxell, Ltd. v. Lenovo Group Ltd., et al.
International Trade Commission

ITC 337-TA-1312
Signal Processing (Information Processing)
Washington, D.C.
2022 – Present

Consultant and Expert Witness

Orrick, Herrington & Sudcliffe LLP, on behalf of Altice USA, Inc. CSC Holdings, LLC, and Cablevision Systems Corp.

Broadband iTV, Inc. v. Altice USA, Inc., et al.

International Trade Commission

ITC 337-TA-1315

Multimedia Systems (Video On-Demand Systems)

San Francisco, California

2022 – Present

Consultant and Expert Witness

O'Melveny & Myers LLP on behalf of LG Electronics, Inc., and LG Electronics USA, Inc.

Image Processing Techs., LLC v. LG Electronics, Inc. and LG Electronics USA, Inc.

USDC Eastern District of Texas

Civil Action No. 2:22-cv-00077

Multimedia Systems (Video Streaming)

San Francisco, California

2022 – Present

Consultant and Expert Witness

Arnold & Porter Kaye Scholer LLP on behalf of Konka Group Co. Ltd. and Shenzhen Konka Electronic Technology Co., Ltd.

DivX LLC v. Konka Group Co. Ltd., et al.

Judicial Arbitration and Mediation Services (JAMS)

Reference No. 1240024614

Multimedia Systems (Video Coding)

San Francisco, California

2022 – Present

Consultant and Expert Witness *

Paul Hastings LLP on behalf of Samsung Electronics America, Inc.

AlmondNet, Inc. and Intent IQ, LLC v. Samsung Electronics America, Inc.

Inter Partes Review

U.S. Patent Trial and Appeal Board

Multimedia Systems (Television Advertising)

Washington, D.C.

2022 – Present

Consultant and Expert Witness *(Examiner Interview)

Fish & Richardson, P.C. on behalf of Dolby Laboratories Licensing Corporation

Unified Patents, LLC v. Dolby Laboratories Licensing Corporation

Ex Partes Reexamination

United States Patent and Trademark Office

Multimedia Systems (Video Coding)

Washington, D.C.

2022 – Present

Consultant and Expert Witness **

Lenczner Slaght LLP on behalf of Adeia Guides, Inc. and Adeia Media Holdings, LLC
Adeia Guides, Inc. and Adeia Media Holdings, LLC v. BCE Inc., Bell Canada, Bell Media Inc., Bell ExpressVu Limited Partnership, Northerntel, L.P., Telefonaktiebolaget L M Ericsson, Ericsson Canada Inc., MK Systems USA Inc., and MK Mediatech Canada Inc.
Federal Court of Canada
Court File No. T-1184-21
Multimedia Systems (Video Systems)
Mountain View, California
2022 – Present

Consultant and Expert Witness

Cooley LLP on behalf of Google LLC and YouTube, LLC
WAG Acquisition, LLC v. Google LLC and YouTube, LLC
USDC Western District of Texas
Civil Action No. 6:21-cv-00816
Multimedia Systems (Video Coding)
Washington, DC
2022 – Present

Consultant and Expert Witness

Fenwick & West LLP on behalf of Amazon.com, Inc., Amazon Web Services, Inc., and Amazon.com Services LLC
WAG Acquisition, LLC v. Amazon.com, Inc., Amazon Web Services, Inc., and Amazon.com Services LLC
USDC Western District of Texas
Civil Action No. 6:21-cv-815-ADA
Multimedia Systems (Video Coding)
Mountain View, California
2022 – Present

Consultant and Expert Witness

Fenwick & West LLP on behalf of Amazon.com, Inc., Amazon.com Services LLC, and Amazon Web Services, Inc.
DivX, LLC v. TCL Corporation et al.
International Trade Commission
ITC 337-TA-3578
Multimedia Systems (Multimedia Streaming)
Mountain View, California
2022

Consultant and Expert Witness

Fenwick & West LLP and MFSolomon Tax Consulting, LLC on behalf of Bloomberg, L.P. and Bloomberg Inc.
Bloomberg L.P., Bloomberg Inc., Tax Matter Partner, et al. v. Commissioner
United States Tax Court
Docket Nos. 3755-17 and 3756-17
Software Systems (User Interfaces)
San Francisco, California
2022 – Present

Consultant and Expert Witness * **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google LLC
Sonos, Inc. v. Google LLC
USDC Northern District of California
Civil Action No. 3:20-cv-06754-WHA
Civil Action No. 3:21-cv-07559-WHA
Multimedia Systems (Signal and Audio Processing)
San Francisco, California
2022 – Present

Consultant and Expert Witness

Gibson, Dunn & Crutcher LLP on behalf of Dell Techs. Inc. and Dell Inc.
VideoLabs, Inc. v. Dell Techs. Inc. and Dell Inc.
USDC Western District of Texas
Civil Action No. 6:21-cv-456-ADA
Multimedia Systems (Video Coding)
New York, New York
2021 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Zebra Technologies Corporation
Honeywell Int'l Inc., Hand Held Products, Inc., and Metrologic Instruments, Inc. v. Zebra Technologies Corporation
USDC Western District of Texas
Civil Action No. 6:21-cv-01010-ADA
Multimedia Systems (Barcode Scanners)
New York, New York
2021 – Present

Consultant and Expert Witness *

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Zebra Technologies Corporation
Honeywell Int'l Inc., Hand Held Products, Inc., and Metrologic Instruments, Inc. v. Zebra Technologies Corporation
International Trade Commission
ITC 337-TA-1285
Multimedia Systems (Barcode Scanners)
New York, New York
2021 – Present

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of MediaTek Inc. and MediaTek Singapore PTE Ltd.
DivX, LLC v. MediaTek, Inc. MediaTek Singapore PTE. Ltd.
USDC Eastern District of Texas
Civil Action No. 2:21-cv-00306-JRG
Multimedia Systems (Video Compression)
Washington, D.C.
2021

Consultant and Expert Witness * **

Fish & Richardson, P.C. on behalf of The Chamberlain Group, Blackstone Management L.L.C. and Chariot Buyer LLC
Overhead Door Corporation and GMI Holdings, Inc. v. The Chamberlain Group et al.
International Trade Commission
ITC 337-TA-1209
Multimedia Systems (Signal Processing)
Houston, Texas
2021 – Present

Consultant and Expert Witness * **

Baker Botts, LLP, on behalf of Motorola Solutions, Inc., Avigilon Corporation, Avigilon Fortress Corporation, Avigilon Patent Holding 1 Corporation, and Avigilon Technologies Corporation
Motorola Solutions, Inc. et al. v. Verkada Inc.
International Trade Commission
ITC 337-TA-1281
Multimedia Systems (Video Security)
Washington, D.C.
2021 – Present

Consultant and Expert Witness

Winston & Strawn LLP on behalf of Cloudflare, Inc.
Deniece Waidhofer et al. v. Cloudflare, Inc. et al.
USDC Central District of California
Civil Action No. 2:20-cv-06979-FMO-AS
Multimedia Systems (Image Processing and Communications)
San Francisco, California
2021 – Present

Consultant and Expert Witness *

Orrick, Herrington & Sudcliffe LLP, on behalf of DISH Network, LLC
Broadband iTV, Inc. v. DISH Network, LLC
USDC Western District of Texas
Civil Action No. 6:19-cv-00716
Multimedia Systems (Video On-Demand Systems)
San Francisco, California
2021 – Present

Consultant and Expert Witness *

Finnegan, Henderson, Farabow, Garrett & Dunner LLP on behalf of LG Electronics Inc. and LG Electronics U.S.A., Inc.
DivX, LLC v. Samsung Electronics Co., Ltd., et al.
International Trade Commission
ITC 337-TA-1222
Multimedia Systems (Multimedia Streaming)
Atlanta, Georgia
2021 – Present

Consultant and Expert Witness * **

Crowell & Moring LLP on behalf of TCL Corporation, TCL Technology Group Corporation, TCL Electronics Holdings Limited, TTE Technology, Inc., Shenzhen TCL New Technologies Co. Ltd.,

TCL King Electrical Appliances (Huizhou) Co. Ltd., TCL MOKA International Limited, and TCL Smart Device (Vietnam) Co., Ltd.

DivX, LLC v. Samsung Electronics Co., Ltd., et al.

International Trade Commission

ITC 337-TA-1222

Multimedia Systems (Multimedia Streaming)

Atlanta, Georgia

2021 – Present

Consultant and Expert Witness *

Fish & Richardson, P.C. on behalf of Dolby Laboratories Licensing Corporation

Unified Patents Inc. v. Dolby Laboratories Licensing Corporation

Inter Partes Review

U.S. Patent Trial and Appeal Board

Multimedia Systems (Video Coding)

Washington, D.C.

2021 – Present

Consultant and Expert Witness

Daignault Iyer LLP on behalf of Onstream Media Corporation

Onstream Media Corporation v. Facebook, Inc.

USDC Western District of Texas

Civil Action No. 6:19-cv-00708

Multimedia Systems (Video Conferencing)

New York, New York

2021 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google LLC

Sonos, Inc. v. Google LLC

USDC Western District of Texas

Civil Action No. 6:20-cv-881

Multimedia Systems (Signal and Audio Processing)

San Francisco, California

2020 – Present

Consultant and Expert Witness *

Warren Lex on behalf of Google LLC

WSOU Investments, LLC d/b/a/ Brazos Licensing and Development v. Google LLC

USDC Western District of Texas

Civil Action No. 6:20-cv-571

Civil Action No. 6:20-cv-580

Civil Action No. 6:20-cv-583

Civil Action No. 6:20-cv-585

Multimedia Systems (Multimedia Streaming and Image Processing)

San Francisco, Illinois

2020 – Present

Consultant and Expert Witness *

Fish & Richardson, P.C. on behalf of Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., and Samsung Electronics HCMC CE Complex, Co., Ltd.

DivX, LLC v. Samsung Electronics Co., Ltd., et al.
International Trade Commission
ITC 337-TA-1222
Multimedia Systems (Multimedia Streaming)
Atlanta, Georgia
2020 – Present

Consultant and Expert Witness

Jones Day on behalf of Google LLC
WSOU Investments, LLC d/b/a/ Brazos Licensing and Development v. Google LLC
USDC Western District of Texas
Civil Action No. 6:20-cv-574
Civil Action No. 6:20-cv-579
Civil Action No. 6:20-cv-582
Multimedia Systems (Multimedia Streaming and Image Processing)
Minneapolis, Minnesota
2020 – Present

Consultant and Expert Witness

Jones Day on behalf of Google LLC
WSOU Investments, LLC d/b/a/ Brazos Licensing and Development v. Google LLC
USDC Western District of Texas
Civil Action No. 6:20-cv-572
Civil Action No. 6:20-cv-580
Multimedia Systems (Multimedia Streaming and Image Processing)
Minneapolis, Minnesota
2020 – Present

Consultant and Expert Witness * **

Fenwick & West LLP on behalf of Amazon.com, Inc.
TrackTime, LLC. v. Amazon.com, Inc.
USDC District of Delaware
Civil Action No. 1:18-CV-01518
Multimedia Systems (Video Conferencing)
Mountain View, California
2020 – Present

Consultant and Expert Witness *

Fenwick & West LLP on behalf of Amazon.com, Inc.
MonkeyMedia, Inc. v. Amazon.com, Inc.
USDC Western District of Texas
Civil Action No. 1:20-cv-00010
Multimedia Systems (Video Conferencing)
Mountain View, California
2020 – Present

Consultant and Expert Witness

Goldberg Segalla LLP on behalf of Onstream Media Corporation
Onstream Media Corporation v. Facebook, Inc.
USDC Western District of Texas
Civil Action No. 6:19-cv-00708

Multimedia Systems (Video Conferencing)
New York, New York
2020 – 2021

Consultant and Expert Witness

Fenwick & West LLP on behalf of Cloudflare, Inc.
Mon Cheri Bridals, LLC, et al. v. Cloudflare, Inc.
USDC Northern District of California
Civil Action No. 19-cv-01356-VC
Multimedia Systems (Image Processing and Communications)
San Francisco, California
2020 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google LLC
Google LLC v. SimpleAir, Inc.
USDC Central District of California
Civil Action No. 2:16-cv-3758-JAK-PLA
Multimedia Systems (Message Communications)
San Francisco, California
2020 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google LLC
SimpleAir, Inc. v. Google LLC
USDC Central District of California
Civil Action No. 2:20-cv-02839-JAK-PLA
Multimedia Systems (Message Communications)
San Francisco, California
2020 – Present

Consultant and Expert Witness * **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of KeyMe, LLC
The Hillman Group, Inc. v. KeyMe, LLC
USDC Eastern District of Texas
Civil Action No. 2:19-cv-00209-JRG
Civil Action No. 2:20-cv-00070-JRG
Multimedia Systems (Computer Vision and Automated Inspection)
Los Angeles, California
2020 – Present

Consultant and Expert Witness

Wolf, Greenfield & Sacks, P.C., Orrick, Herrington & Sutcliffe LLP, Fenwick & West LLP, and Egozi & Bennett, P.A. on behalf of Best Buy Co., Inc. and Best Buy Stores, LP (represented by Google, Inc., Amazon, Inc., Microsoft Corp., Dell Inc., Alienware Corp., HP Inc., BLU PRODUCTS)
Corydoras Technologies, LLC v. Best Buy Co., Inc., et al.
USDC Eastern District of Texas
Civil Action No. 2:19-cv-00304
Multimedia Systems (Audio-Visual Communications)
Los Angeles, California

2020

Consultant and Expert Witness * **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google LLC
Sonos, Inc. v. Google LLC
International Trade Commission
ITC 337-TA-1191
Multimedia Systems (Signal and Audio Processing)
Los Angeles, California
2020 – Present

Consultant and Expert Witness * **

O'Melveny & Myers LLP on behalf of Google LLC and YouTube, LLC
VideoShare, LLC v. Google LLC, et al.
USDC Western District of Texas
Civil Action No. 6:19-cv-00663-ADA
Multimedia Systems (Video Streaming)
San Francisco, California
2020 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Vizio, Inc.
Polaris Powered Technologies, LLC v. Vizio, Inc.
USDC Central District of California
Civil Action No. 8:18-CV-01571-JVS (DFMx)
Multimedia Systems (Television Displays)
New York, New York
2020

Consultant and Expert Witness

Hueston Hennigan, LLP on behalf of Peloton Interactive, Inc.
Peloton Interactive, Inc. v. Flywheel Sports, Inc.
USDC Eastern District of Texas
Civil Action No. 2:2018-cv-00390-RWS-RSP
Civil Action No. 2:19-cv-00317-JRG-RSP
Multimedia Systems (Exercise System and Media Streaming)
Los Angeles, California
2020

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of GoPro, Inc.
Contour IP Holding, LLC v. GoPro, Inc.
USDC Northern District of California
Civil Action No. 3:17-cv-04738-WHO
Multimedia Systems (Camera Systems)
San Francisco, California
2019

Consultant and Expert Witness * **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google Inc.
Personalized Media Communications, LLC v. Google Inc. et al.

USDC Eastern District of Texas
Civil Action No. 2:19-cv-00090-JRG
Multimedia Systems (Multimedia Processing and Communications)
Los Angeles, California
2019 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of DocuSign, Inc.
RPost Holdings, Inc. et al. v. DocuSign, Inc.
USDC Eastern District of Texas
Civil Action No. 2:12-cv-683-JRG
Multimedia Systems (Document Authentication and Message Verification)
San Francisco, California
2019

Consultant and Expert Witness

Mintz, Levin, Cohn, Ferris, Glovsky, and Popeo P.C. on behalf of GE Video Compression, LLC
Unified Patents Inc. v. GE Video Compression, LLC
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Video Coding)
Boston, Massachusetts
2019

Consultant and Expert Witness

Pepper Hamilton, LLP on behalf of Polycom, Inc.
directPacket Research, Inc. v. Polycom, Inc.
USDC Eastern District of Virginia
Civil Action No. 2:18-cv-331
Multimedia Systems (Multimedia Communications)
Boston, Massachusetts
2019 – Present

Consultant and Expert Witness

Feinberg Day Alberti Lim & Belloli LLP on behalf of Uniloc 2017 LLC
Uniloc 2017 LLC v. Verizon Communications Inc., et al.
USDC Eastern District of Texas
Civil Action No. 2:18-cv-00536-JRG
Multimedia Systems (Video Coding)
Menlo Park, California
2019 – 2020

Consultant and Expert Witness *

Feinberg Day Alberti Lim & Belloli LLP on behalf of Uniloc 2017 LLC
Uniloc 2017 LLC v. Netflix, Inc.
USDC Central District of California
Civil Action No. 8:18-CV-02055-JVS-DFM
Multimedia Systems (Video Coding)
Menlo Park, California
2019 – 2020

Consultant and Expert Witness * **

Kasowitz Benson Torres LLP on behalf of MV3 Partners LLC
MV3 Partners LLC v. Roku
USDC Western District of Texas
Civil Action No. 6-18-cv-00308
Multimedia Systems (Video Communications)
Redwood Shores, California
2019 – Present

Consultant and Expert Witness *

Kasowitz Benson Torres LLP on behalf of MV3 Partners LLC
Unified Patents Inc. v. MV3 Partners LLC
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Video Communications)
Redwood Shores, California
2019 – Present

Consultant

Gibson, Dunn & Crutcher LLP on behalf of Cequel Communications, LLC, CSC Holdings, LLC,
and Altice USA, Inc.
Multimedia Systems (Video On-Demand Systems)
New York, New York
2019

Consultant and Expert Witness *

Baker Botts, LLP, on behalf of Samsung Electronics America, Inc.
Cypress Lake Software, Inc. v. Samsung Electronics America, Inc., Dell Inc.
USDC Eastern District of Texas
Civil Action No. 6:18-cv-00030-RWS
Multimedia Systems (Multimedia Streaming and User Interfaces)
Washington, D.C.
2018 – Present

Consultant and Expert Witness *

Jones Day on behalf of Samsung Electronics America, Inc. and Dell Inc.
Cypress Lake Software, Inc. v. Samsung Electronics America, Inc., Dell Inc.
USDC Eastern District of Texas
Civil Action No. 6:18-cv-00030-RWS
Civil Action No. 6:18-cv-00138-RWS
Multimedia Systems (Multimedia Streaming and User Interfaces)
Chicago, Illinois
2018 – Present

Consultant and Expert Witness *

Paul Hastings LLP on behalf of YouTube, LLC and Google, LLC
Virentem Ventures, LLC, d/b/a Enounce v. YouTube, LLC and Google, LLC
USDC District of Delaware
Civil Action No. 1:18-cv-00917
Multimedia Systems (Multimedia Presentations and Broadcasts)
Washington, D.C.

2018 – Present

Consultant and Expert Witness

Jones Day on behalf of HP Inc.

Cypress Lake Software, Inc. v. ZTE (USA) Inc, HP Inc.

USDC Eastern District of Texas

Civil Action No. 6:17-cv-00300-RWS

Civil Action No. 6:17-cv-00462-RWS

Multimedia Systems (Multimedia Streaming and User Interfaces)

Chicago, Illinois

2018 – Present

Consultant and Expert Witness *

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Blackberry Limited

BlackBerry Limited, et al. v. Facebook, Inc.

USDC Central District of California

Civil Action No. 2:18-cv-01844

Multimedia Systems (Multimedia Storage and User Interfaces)

Los Angeles, California

2018 – Present

Consultant and Expert Witness *

Shook, Hardy & Bacon LLP on behalf of TASER International, Inc.

Digital Ally, Inc. v. TASER International, Inc.

USDC District of Kansas

Civil Action No. 2:16-cv-02032- CM-JPO

Multimedia Systems (Multimedia Recording)

Kansas City, Missouri

2018

Consultant and Expert Witness

Alston & Bird, LLP on behalf of ASUSTeK Computer Inc. and ASUS Computer International

Maxell, Ltd. v. ASUSTeK Computer Inc. et al.

USDC Central District of California

Civil Action No. 2:17-cv-7528

Multimedia Systems (Image and Video Processing)

Dallas, Texas

2018 – Present

Consultant and Expert Witness *

Covington & Burling, LLP on behalf of Huawei Device USA Inc. and Huawei Device Co., Ltd.

Maxell, Ltd. v. Huawei Device USA Inc. et al.

USDC Eastern District of Texas

Civil Action No. 5:16-cv-00178-RWS

Multimedia Systems (Image and Video Processing)

Redwood Shores, California

2018 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of NVIDIA Corp.

ZiiLabs Inc., Ltd. v. NVIDIA Corp.

USDC District of Delaware
Civil Action No. 1:17-cv-01370
Civil Action No. 1:17-cv-01863
Multimedia Systems (Graphics Systems)
San Francisco, California
2018 – 2019

Consultant and Expert Witness *

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of NVIDIA Corp.
ZiiLabs Inc., Ltd. v. NVIDIA Corp.
International Trade Commission
ITC 337-TA-1099
Multimedia Systems (Graphics Systems)
San Francisco, California
2018 – 2019

Consultant and Expert Witness

Mintz, Levin, Cohn, Ferris, Glovsky, and Popeo P.C. on behalf of Avigilon Corporation and Avigilon U.S.A. Corporation Inc.
Canon Inc. v. Avigilon Corp., et al.
USDC Northern District of Texas
Civil Action No. 3:17-cv-2733
Multimedia Systems (Video Security)
Boston, Massachusetts
2017 – 2020

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Qualcomm Incorporated
Qualcomm Litigation
Qualcomm Incorporated v. Apple Inc.
USDC Southern District of California
Civil Action No. 17-cv-0108-GPC-MDD
Multimedia Systems (Image and Video Processing)
San Francisco, California
2018 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Qualcomm Incorporated
Qualcomm Antitrust Litigation
Qualcomm Incorporated v. Apple Inc.
USDC Northern District of California
Civil Action No. 17-md-02773-LHK
Multimedia Systems (Image and Video Processing)
San Francisco, California
2018 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Qualcomm Incorporated
Federal Trade Commission v. Qualcomm Incorporated
USDC Northern District of California
Civil Action No. 5:17-cv-00220-LHK

Multimedia Systems (Image and Video Processing)
San Francisco, California
2018 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Qualcomm Incorporated
Qualcomm Incorporated v. Apple Inc.
USDC Southern District of California
Civil Action No. 3:17-cv-02398-DMS-MDD
Multimedia Systems (Image and Video Processing)
San Francisco, California
2018 – Present

Consultant and Expert Witness *

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Qualcomm Incorporated
Qualcomm Incorporated v. Apple Inc.
International Trade Commission
ITC 337-TA-1093
Multimedia Systems (Image and Video Processing)
San Francisco, California
2017 – 2018

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of ARRIS Enterprises LLC
ARRIS Enterprises LLC v. Sony Corporation
International Trade Commission
ITC 337-TA-1060
Multimedia Systems (Multimedia Streaming)
Atlanta, Georgia
2017

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google Inc.
Google Inc. v. SEVEN Networks, LLC
USDC Northern District of California
Civil Action No. 3:17-cv-04600-WHO
Multimedia Systems (Mobile Device Optimization)
San Francisco, California
2017 – Present

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google Inc.
SEVEN Networks, LLC v. Google Inc., et al.
USDC Eastern District of Texas
Civil Action No. 2:17-cv-00442-JRG
Multimedia Systems (Mobile Device Optimization)
San Francisco, California
2017 – Present

Consultant and Expert Witness **

Covington & Burling, LLP on behalf of Huawei Device USA Inc. and Huawei Device Co., Ltd.

Optis Wireless Technology, LLC, et al., v. Huawei Technologies Co. Ltd., et al.
USDC Eastern District of Texas
Civil Action No. 2:17-cv-00123-JRG
Multimedia Systems (Video Coding)
Redwood Shores, California
2017 – Present

Consultant and Expert Witness *

Fish & Richardson, P.C. on behalf of Pace plc and Americas, LLC
Sony Corporation v. Pace plc et al.
International Trade Commission
ITC 337-TA-1049
Multimedia Systems (Multimedia Broadcasts)
Atlanta, Georgia
2017

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of PerDiemCo LLC
PerDiemCo LLC v. Telular Corp. et al.
USDC Eastern District of Texas
Civil Action No. 2:16-cv-01408
Multimedia Systems (Location Tracking)
Washington, D.C.
2017

Consultant and Expert Witness *

Baker Hostetler LLP on behalf of Funai Electric Co., Ltd. *et al.*
Funai Electric Company, Ltd. v. LSI Corp. et al.
(Involved exclusively with MPEG patents)
USDC Central District of California
Civil Action No. 2:16-cv-01210-BLF
Multimedia Systems (Video Coding)
Cincinnati, Ohio
2017

Consultant and Expert Witness **

McDermott Will & Emery, LLP on behalf of Cummins-Allison Corp.
Arkeyo, LLC v. Cummins-Allison Corp.
USDC Eastern District of Pennsylvania
Civil Action No. 2:16-cv-04720
Multimedia Systems (Graphic Systems and User Interfaces)
Chicago, Illinois
2017

Consultant and Expert Witness *

Hueston Hennigan, LLP on behalf of ClearOne Inc.
ClearOne Inc. v. Shure, Biamp Systems, and QSC
USDC Northern District of Illinois – Eastern Division
Civil Action No. 17-CV-03078
Multimedia Systems (Audio Processing)
Los Angeles, California

2017 – Present

Consultant

McDermott Will & Emery, LLP on behalf of Harman International Industries, Incorporated
Philips v. Harman International Industries, Incorporated
German Court
Multimedia Systems (Audio Coding)
Irvine, California
2017 – Present

Consultant and Expert Witness

Dan Johnson Law Group, P.C. on behalf of Bridge and Post, Inc.
Bridge and Post, Inc. v. Verizon Communications, Inc. et al.
USDC Eastern District of Virginia
Civil Action No. 3:17-cv-094
Multimedia Systems (Multimedia Networks)
South San Francisco, California
2017

Consultant and Expert Witness

McKool Smith, P.C. on behalf of Nokia Technologies Oy
Nokia, Inc. v. Apple, Inc.
Multimedia Systems (Video Coding)
Austin, Texas
2017

Consultant and Expert Witness

Marc R. Labgold, P.C. to assist Nagashima, Hashimoto and Yasukuni on behalf of Funai Electric Co, Inc., Funai Corporation, Inc. and P&F USA Inc.
Personalized Media Communications, LLC v. Funai Electric Co., Ltd. et al.
USDC Eastern District of Texas
Civil Action No. 2:16-cv-00105-JRG-RSP
Multimedia Systems (Multimedia Processing and Communications)
Reston, Virginia
2017

Consultant and Expert Witness

O'Melveny & Myers LLP on behalf of Advanced Micro Devices, Inc.
ZiiLabs Inc., Ltd. v. Advanced Micro Devices, Inc.
International Trade Commission
ITC 337-TA-3189
Multimedia Systems (Graphics Systems)
Los Angeles, California
2017

Consultant and Expert Witness *

Flachsbart & Greenspoon, LLC on behalf of Cascades Streaming Technologies, LLC
Cascades Streaming Technologies, LLC v. Big Ten Network, LLC
USDC Northern District of Illinois
Civil Action No. 13-cv-1455
Multimedia Systems (Video Streaming)

Chicago, Illinois
2016 – 2017

Consultant and Expert Witness

Alston & Bird, LLP on behalf of Nokia, Inc.
Nokia, Inc. v. Apple, Inc.
Multimedia Systems (Video Coding)
Dallas, Texas
2016 – 2017

Consultant and Expert Witness * **

Fish & Richardson, P.C. on behalf of Carl Zeiss AG and ASML Netherlands B.V.
Carl Zeiss AG and ASML Netherlands B.V. v. Nikon Corporation et al.
International Trade Commission
ITC 337-TA-1059
Multimedia Systems (Camera Systems and Image Processing)
Washington, D.C.
2016 – 2018

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of Pace plc and Americas, LLC
Sony Corporation v. Pace plc et al.
USDC District of Delaware
Civil Action No. 1:15-cv-00288-SLR
Multimedia Systems (Multimedia Broadcasts)
Atlanta, Georgia
2016 – 2017

Consultant and Expert Witness

Warren Lex LLP on behalf of Google Inc.
Philips v. Motorola Mobility LLC
USDC District of Delaware
Civil Action No. 15-cv-00472
Multimedia Systems (Audio Coding)
San Francisco, California
2016

Consultant and Expert Witness *

Winston & Strawn, LLP on behalf of Dell, Inc.
Audio MPEG, Inc. et al. v. Dell Inc.
USDC Eastern District of Virginia (Norfolk Division)
Civil Action No. 2:15-cv-00073
Multimedia Systems (Audio Coding)
Chicago, Illinois
2016 – 2017

Consultant and Expert Witness

Vinson & Elkins LLP on behalf of NBA Media Ventures, LLC, Turner Sports Interactive, Inc., and Turner Digital Basketball Services, Inc.; Goldman Ismail Tomaselli Brennan & Baum LLP on behalf of MLB Advanced Media, L.P.; Cowan DeBaets Abrahams & Sheppard LLP on behalf of GBTV, LLC; Mercury Radio Arts, Inc.; and Premiere Radio Networks, Inc.

Front Row Technologies, LLC v. NBA Media Ventures, LLC et al.
USDC of New Mexico
Civil Action Nos. 1:10-cv-00433-JB-SCY and 1:12-cv-01309-JB-SCY
Multimedia Systems (Multimedia Streaming)
Chicago, Illinois
New York, New York
2016

Consultant and Expert Witness

Vinson & Elkins LLP on behalf of NBA Media Ventures, LLC, Turner Sports Interactive, Inc., and Turner Digital Basketball Services, Inc.; Goldman Ismail Tomaselli Brennan & Baum LLP on behalf of MLB Advanced Media, L.P.; Cowan DeBaets Abrahams & Sheppard LLP on behalf of GBTV, LLC; Mercury Radio Arts, Inc.; and Premiere Radio Networks, Inc.
Front Row Technologies, LLC v. Turner Sports Interactive, Inc. et al.
USDC of New Mexico
Civil Action No. 1:13-cv-00636-JB-SCY
Multimedia Systems (Multimedia Streaming)
Chicago, Illinois
New York, New York
Chicago, Illinois
2016

Consultant and Expert Witness

Vinson & Elkins LLP on behalf of NBA Media Ventures, LLC, Turner Sports Interactive, Inc., and Turner Digital Basketball Services, Inc.; Goldman Ismail Tomaselli Brennan & Baum LLP on behalf of MLB Advanced Media, L.P.; Cowan DeBaets Abrahams & Sheppard LLP on behalf of GBTV, LLC; Mercury Radio Arts, Inc.; and Premiere Radio Networks, Inc.
Front Row Technologies, LLC v. NBA Media Ventures, LLC et al.
USDC of New Mexico
Civil Action No. 1:13-cv-01153-JB-SCY
Multimedia Systems (Multimedia Streaming)
Chicago, Illinois
New York, New York
Chicago, Illinois
2016

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of BlackBerry Limited
VStream Technologies, LLC v. BlackBerry Limited et al.
USDC Eastern District of Texas
Civil Action No. 6:15-cv-976-JRG-JDL
Multimedia Systems (Video Coding)
Redwood Shores, California
2016

Consultant and Expert Witness

Warren Lex LLP on behalf of Google Inc.
Nonend Inventions N.V. v. Motorola Mobility LLC
USDC Eastern District of Texas
Civil Action No. 15-cv-00472
Multimedia Systems (Multimedia Streaming)

San Francisco, California
2016

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of Samsung Electronics America, Inc. and Samsung Electronics Co., Ltd.

Personalized Media Communications, LLC v. Samsung Electronics America, Inc. and Samsung Electronics Co., Ltd.

USDC Eastern District of Texas

Civil Action No. 2:15-cv-01754-JRG-RSP

Multimedia Systems (Multimedia Processing and Communications)

Washington, D.C.

2016 – 2017

Consultant

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Technicolor, Inc.

Multimedia Systems (Video Coding)

Redwood Shores, California

2016 – 2017

Consultant and Expert Witness *

White & Case, LLP on behalf of Google Inc. *et al.*

VideoShare, LLC v. Google Inc. et al.

USDC District of Delaware

Civil Action No. 13-990

Multimedia Systems (Video Streaming)

New York, New York

2016

Consultant and Expert Witness

Harness, Dickey & Pierce, P.L.C. on behalf of Visage Imaging, Inc. and Pro Medicus, Ltd.

3D Medical Imaging, LLC v. Visage Imaging, Inc. and Pro Medicus, Ltd.

USDC Northern District of Georgia (Gainesville District)

Civil Action No. 2:14-cv-00267

Multimedia Systems (Medical Imaging)

Washington, D.C.

2016

Consultant and Expert Witness *

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of PerDiemCo LLC

PerDiemCo LLC v. Industrack LLC et al.

USDC Eastern District of Texas

Civil Action No. 2:15-cv-727

Multimedia Systems (Location Tracking)

Washington, D.C.

2015 – 2016

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of PerDiemCo LLC

PerDiemCo LLC v. GPS Logic Inc. et al.

USDC Eastern District of Texas

Civil Action No. 2:15-cv-1216
Multimedia Systems (Location Tracking)
Washington, D.C.
2015 – 2016

Consultant and Expert Witness *

Alston & Bird, LLP on behalf of ASUSTeK Computer, Inc. and ASUS Computer International
Avago Technologies General IP (Singapore) Pte. Ltd. v. ASUSTeK Computer, Inc. et al.
USDC Northern District of California
Civil Action No. 2:15-cv-00239
Multimedia Systems (Multimedia Coding)
Dallas, Texas
2015 – 2016

Consultant and Expert Witness

Akin Gump Strauss Hauer & Feld, LLP on behalf of Vimeo, LLC. *et al.*
VideoShare, LLC v. Vimeo, LLC. et al.
USDC District of Delaware
Civil Action No. 13-992
Multimedia Systems (Video Streaming)
Washington, D.C.
2015 – 2016

Consultant and Expert Witness

Baker Hostetler LLP on behalf of Funai Electric Co., Ltd. *et al.*
LSI Corp. et al. v. Funai Electric Company, Ltd. et al.
(Involved exclusively with MPEG patents)
USDC Central District of California
Civil Action No. 2:12-cv-02047-AG-AJW
Multimedia Systems (Video Coding)
Cincinnati, Ohio
2015 – 2016

Consultant and Expert Witness

Akin Gump Strauss Hauer & Feld, LLP on behalf of Google Inc. *et al.*
VideoShare, LLC v. Google Inc. et al.
USDC District of Delaware
Civil Action No. 13-990
Multimedia Systems (Video Streaming)
Washington, D.C.
2015

Consultant and Expert Witness

Chen Malin, LLP on behalf of Realtek Semiconductor Corp.
Andrea Electronics Corp. v. Realtek Semiconductor Corp et al.
International Trade Commission
ITC 337-TA-949
Multimedia Systems (Audio Processing)
Dallas, Texas
2015

Consultant and Expert Witness **

Paul Hastings, LLP on behalf of Rovi Corporation *et al.*
Netflix Inc. v. Rovi Corporation et al.
USDC Northern District of California
Civil Action No. 5:11-cv-06591
Multimedia Systems (Television Systems and User Interfaces)
Palo Alto, California
2015

Consultant and Expert Witness *

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Aylus Networks, Inc.
Aylus Networks, Inc. v. Apple, Inc.
USDC Northern District of California
Civil Action No. 3:13-cv-4700-EMC
Multimedia Systems (Video Streaming)
Los Angeles, California
2015 – 2016

Consultant and Expert Witness * **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google Inc.
SimpleAir, Inc. v. Google Inc., et al.
USDC Eastern District of Texas
Civil Action No. 2:14-cv-00011-JRG
Multimedia Systems (Message Communications)
San Francisco, California
2015

Consultant and Expert Witness *

O'Melveny & Myers LLP on behalf of Top Victory Electronics (Taiwan) Co., Ltd, TPV International (USA), Inc., Envision Peripherals, Inc., Top Victory Electronics (Fujian) Co., Ltd., TPV Electronics (Fujian) Co., Ltd., TPV Technology Limited, TPV Display Technology (Xiamen) Co., Ltd.
Hitachi Maxell, Ltd. v. Top Victory Electronics (Taiwan) Co. Ltd. et al.
USDC Eastern District of Texas (Marshall Division)
Civil Action No. 2:14-cv-01121-JRG-RSP
Multimedia Systems (Video Processing)
Los Angeles, California
2015 – 2016

Consultant and Expert Witness *

Shook, Hardy & Bacon LLP on behalf of Sprint Communications L.P.
Comcast Cable Communications, LLC et al. v. Sprint Communications Company L.P., et al.
USDC Eastern District of Pennsylvania
Civil Action No. 2:12-cv-00859-JD
Multimedia Systems (Video On-Demand Systems)
Houston, Texas
2015 – 2016

Consultant and Expert Witness *

Winston & Strawn, LLP on behalf of Dell, Inc. and Lenovo, Inc.
Nexus Display Technologies, LLC v. Dell, Inc.

USDC Eastern District of Texas (Marshall Division)
Civil Action No. 2:14-cv-00762
Multimedia Systems (Multimedia Interfaces)
Chicago, Illinois
2015

Consultant and Expert Witness

Heim Payne & Chorush, LLP on behalf of Two-Way Media, Ltd.
Two-Way Media Ltd v. Verizon Communications Inc., Verizon Services Corp. and Verizon Online LLC
Civil Action No. 14-1212-RGA
USDC District of Delaware
Multimedia Systems (Multimedia Communications)
Houston, Texas
2015 – 2016

Consultant and Expert Witness

Jones Day on behalf of Kyocera Communications, Inc.
e-Watch, Inc., et al. v. Kyocera Communications, Inc.
Civil Action Nos. 2:13-cv-01077 and 2:13-cv-01061
USDC Eastern District of Texas
Multimedia Systems (Camera Systems and Image Communications)
Washington, D.C.
2015

Consultant and Expert Witness

Mayer Brown LLP on behalf of LG Electronics, Inc. and LG Electronics U.S.A., Inc.
Mondis Technology Ltd. v. LG Electronics, Inc., et al.
Civil Action No. 2:15-cv-4431-SRC-CLW
USDC Eastern District of New Jersey
Multimedia Systems (Video Communications)
Washington, D.C.
2014 – 2016

Consultant and Expert Witness *

Mayer Brown LLP on behalf of LG Electronics, Inc., LG Electronics U.S.A., Inc. and LG Electronics MobileComm U.S.A., Inc.
Advanced Micro Devices, Inc., and ATI Technologies ULC v. LG Electronics, Inc., et al.
USPTO
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Video Display and User Interfaces)
Washington, D.C.
2014 – 2016

Consultant and Expert Witness

Ropes & Gray LLP on behalf of Olympus Corporation
Multimedia Systems (Camera Systems and Image Processing)
Tokyo, Japan
2014

Consultant and Expert Witness *

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Time Warner Cable Enterprises LLC, Time Warner Cable Texas LLC, Arris Group, Inc., Cisco Systems, Inc. and Casa Systems Inc.
C-Cation Technologies, LLC. v. Time Warner Cable Enterprises LLC, Time Warner Cable Texas LLC, Arris Group, Inc., Cisco Systems, Inc. and Casa Systems Inc.
USDC Eastern District of Texas (Marshall Division)
Civil Action No. 2:14-cv-59
Multimedia Systems (Cable Television and Multimedia Communications)
New York, New York
2014 – 2015

Consultant and Expert Witness *

Barlow & Co., LLC on behalf of Plexus Corp.
Plexus Corp. v. U.S.
U.S. Court of International Trade
CIT 13-00343
Multimedia Systems (Cable Television and Multimedia Communications)
Washington, D.C.
2014 – Present

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of Hewlett-Packard Company
Berkheimer v. Hewlett-Packard Company
USDC Northern District of Illinois
Civil Action No. 1:12-cv-09023
Multimedia Systems (Document and Graphic Systems)
Chicago, Illinois
2014 – 2015

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Google Inc.
Smartflash et al. v. Google Inc. et al.
USDC Eastern District of Texas
Civil Action No. 13-cv-448
Multimedia Systems (Multimedia Storage)
San Francisco, California
2014

Consultant and Expert Witness

Kilpatrick Townsend and Stockton LLP on behalf of Cisco Systems, Inc.
Custom Media, LLC v. Cisco Systems, Inc.
USPTO
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Video Processing)
Atlanta, Georgia
2014 – 2015

Consultant and Expert Witness

Covington & Burling, LLP on behalf of Entropic Inc. and Entropic Communications, Inc.
ViXS Systems, Inc. and ViXS USA, Inc. v. Entropic Communications, Inc., et al.

International Trade Commission
ITC 337-TA-915
Multimedia Systems (Multimedia Communications)
San Diego, California
2014

Consultant and Expert Witness

Merchant & Gould P.C. on behalf of TMM, Inc.
TMM, Inc. v. Dimension, Inc.
USPTO
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Video Processing)
New York, New York
2014 – 2015

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., and Samsung Telecommunications America, LLC
Rockstar et al. v. Samsung Electronics Co., Ltd., et al.
USDC Eastern District of Texas
Civil Action Nos. 13-cv-0900-JRG, 2:13-cv- 00894-JRG
Multimedia Systems (Message Communications)
New York, New York
2014

Consultant and Expert Witness

Merchant & Gould P.C. on behalf of TMM, Inc.
TMM, Inc. v. Dimension, Inc.
USPTO
Inter Partes Review
U.S. Patent Trial and Appeal Board
Multimedia Systems (Video Processing)
New York, New York
2014 – 2015

Consultant and Expert Witness

McDermott Will & Emery, LLP on behalf of Rovi Corporation
Netflix Inc. v. Rovi Corporation et al.
USDC Northern District of California
Civil Action No. 5:11- cv-06591
Multimedia Systems (Television Systems and User Interfaces)
Menlo Park, California
2014 – 2015

Consultant and Expert Witness

Desmarais, LLP on behalf of Intellectual Ventures I, LLC, and Intellectual Ventures II, LLC
Intellectual Ventures I & II v. Nikon Corp., et al.
(Involved exclusively with imaging patents)
USDC District of Delaware
Civil Action No. 1:11-CV-1025-SLR

Multimedia Systems (Digital Cameras and Image Processing)
New York, New York
2014 – 2015

Consultant and Expert Witness

Pepper Hamilton, LLP on behalf of FlashPoint Technology, Inc.
Flashpoint Technology, Inc. v. HTC Corporation and HTC America, Inc.
USDC Eastern District of North Carolina, Western Division
Civil Action No. 5:13-CV-00561-BO
Multimedia Systems (Camera Systems and User Interfaces)
Boston, Massachusetts
2013 – 2015

Consultant and Expert Witness

Winston & Strawn, LLP on behalf of ARRIS Group, Inc.
Video Streaming Solutions LLC v. ARRIS Group, Inc. et al.
USDC Northern District of Illinois
Civil Action No. 1:13-cv-03992
Multimedia Systems (Video Splicing and Multimedia Streaming)
Chicago, Illinois
2013

Consultant and Expert Witness **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Barnes & Noble, Inc. and
barnesandnoble.com LLC
Barnes & Noble, Inc. v. LSI Corp.
(Involved exclusively with MPEG patents)
USDC Northern District of California
Civil Action No. 3:11-CV-2709-EMC
Multimedia Systems (Video Coding)
San Francisco, California
2013 – 2014

Consultant and Expert Witness

Kirkland & Ellis LLP on behalf of OpenTV, Inc.
OpenTV, Inc. v. Netflix, Inc.
USDC District of Delaware
Civil Action No. 1:12-CV-1733
Multimedia Systems (Multimedia Communications and Display)
Chicago, Illinois
2013

Consultant and Expert Witness

DLA Piper LLP and Adams & Adams on behalf of Multichoice Africa, Pty., a Naspers Group
company
Barron & Verster v. Multichoice South Africa, Pty.
Court of the Commissioner of Patents for the Republic of South Africa
Multimedia Systems (Video On-Demand Systems)
East Palo Alto, California
Pretoria, South Africa
2013 – 2014

Consultant and Expert Witness

Akin Gump Strauss Hauer & Feld, LLP on behalf of Hilton Resorts Corp., Hilton Worldwide, Inc., and Hilton International Co.

Ameranth, Inc. v. Hilton Resorts Corp., Hilton Worldwide, Inc., and Hilton International Co.

USDC Southern District of California

Civil Action No. 3:12-cv-01636-JLS-NLS

(Consolidated with Civil Action No. 3:11-cv-01810-JLS-NLS)

Multimedia Systems (Multimedia Communications)

Los Angeles, California

2013

Consultant and Expert Witness * **

McDermott Will & Emery, LLP on behalf of Panasonic Corporation and Panasonic Corporation of North America

Black Hills Media, LLC v. Panasonic Corporation, et al.

International Trade Commission

ITC 337-TA-882

Multimedia Systems (Audio Streaming)

Irvine, California

2013 – 2014

Consultant and Expert Witness *

Desmarais, LLP on behalf of Nokia Corporation and Nokia Inc.

Nokia Inc. v. HTC Corp.

International Trade Commission

ITC 337-TA-885

Multimedia Systems (Video Coding)

New York, New York

2013 – 2014

Consultant and Expert Witness * **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., and Samsung Telecommunications America, LLC

Apple Inc. v. Samsung Electronics Co., Ltd., et al.

(Involved exclusively with counterclaims for patents asserted by Samsung Electronics)

USDC Northern District of California

Civil Action No. 12-cv-00630-LHK

Multimedia Systems (Video Communications and Multimedia Synchronization)

Redwood Shores, California

2013 – 2014

Consultant and Expert Witness

Akin Gump Strauss Hauer & Feld, LLP on behalf of Wyndham Worldwide Corp., Hilton Hotels, and Omni Hotels Management Corp.

Variant Holdings, LLC v. Hilton Hotels Holdings, et al.

(Involved exclusively with infringement analysis)

USDC Eastern District of Texas

Civil Action Nos. 2:11-cv-290, 2:11-CV-422, and 2:11-CV-427 (Consolidated)

Multimedia Systems (Multimedia Communications)

Los Angeles, California

2013

Consultant and Expert Witness * **

Desmarais, LLP on behalf of Intellectual Ventures I, LLC, and Intellectual Ventures II, LLC
Intellectual Ventures I & II v. Canon Inc., et al.
(Involved exclusively with imaging patents)
USDC District of Delaware
Civil Action No. 1:11-CV-792
Multimedia Systems (Digital Cameras and Graphic Systems)
New York, New York
2012 – 2014

Consultant and Expert Witness * **

McDermott Will & Emery, LLP on behalf of Funai Electric Co., Ltd. *et al.*
LSI Corp. and Agere Systems, Inc. v. Funai Electric Company, Ltd. et al.
(Involved exclusively with MPEG patents)
International Trade Commission
ITC 337-TA-837
Multimedia Systems (Video Coding)
Washington, D.C.
2012 – 2013

Consultant and Expert Witness * **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of MediaTek, Inc. *et al.*
LSI Corp. and Agere Systems, Inc. v. Funai Electric Company, Ltd. et al.
(Involved exclusively with MPEG patents)
International Trade Commission
ITC 337-TA-837
Multimedia Systems (Video Coding)
New York, New York
2012 – 2013

Consultant & Expert Witness *

Nixon & Vanderhye, P.C. on behalf of TouchTunes Music Corp.
TouchTunes Music Corp. v. Rowe International Corp., Arachnid, Inc., AMI Entertainment, Inc., and Merit Industries, Inc.
USDC Southern District of New York
Civil Action No. 07-cv-11450
Multimedia Systems (Jukebox Systems)
Arlington, Virginia
2012 – 2013

Consultant and Expert Witness

Jones Day on behalf of The MathWorks, Inc.
The MathWorks, Inc. v. AccelerEyes LLC et al.
USDC Eastern District of Texas
Civil Action No. 6:11-cv-0345
Multimedia Systems (Software Systems)
Chicago, Illinois
2012

Consultant and Expert Witness

Jones Day on behalf of The MathWorks, Inc.
The MathWorks, Inc. v. AccelerEyes LLC et al.
USDC Northern District of Illinois
Civil Action No. 1:11-cv-04645
Multimedia Systems (Software Systems)
Chicago, Illinois
2012

Consultant and Expert Witness

Shaw Keller, LLP and Nagashima & Hashimoto on behalf of Funai Electronic Co., Ltd., Funai Corporation, Inc., and P&F, USA, Inc.
Walker Digital, LLC v. D&M Holdings, Inc. et al.
International Trade Commission
ITC 337-TA-824
Multimedia Systems (Video Systems and User Interfaces)
Chicago, Illinois
2012

Consultant and Expert Witness

Winston & Strawn, LLP on behalf of Motorola Mobility, Inc.
Multi-Format, Inc. et al. v. Motorola Mobility, Inc. et al.
USDC Northern District of Illinois
Civil Action No. 1:11-cv-05145
Multimedia Systems (Multimedia Production)
Chicago, Illinois
2011 – 2012

Consultant and Expert Witness * **

Heptig Law Group, Ltd and Cooley, LLP on behalf of Realtime Data, LLC
Realtime Data, LLC v. MetroPCS Texas et al.
(Involved exclusively with infringement analysis)
USDC Eastern District of Texas
Civil Action No. 6:10-cv-00493-LED
Multimedia Systems (Video Communication)
Dallas, Texas
2011 – 2013

Consultant and Expert Witness

Patterson & Sheridan, LLP on behalf of SmugMug, Inc.
VPS, LLC v. SmugMug, Inc.
USDC Northern District of Illinois
Civil Action No. 10-cv-2142
Multimedia Systems (Image Storage and Retrieval)
Dallas, Texas
2011 – 2013

Consultant and Expert Witness

Morgan, Lewis & Bockius LLP on behalf of the University of Pittsburgh of the Commonwealth System of Higher Education

University of Pittsburgh of the Commonwealth System of Higher Education v. Varian Medical Systems, Inc.

USDC Western District of Pennsylvania

Civil Action No. 2:08-cv-01307-AJS

Multimedia Systems (Image Processing)

Washington, D.C.

2011

Consultant and Expert Witness * **

Morgan, Lewis & Bockius LLP on behalf of ActiveVideo Networks, Inc.

ActiveVideo Networks, Inc. v. Verizon Communications, Inc.

(Involved exclusively with claims for patents asserted by ActiveVideo Networks)

USDC Eastern District of Virginia

Civil Action No. 2:10-cv-248 RAJ/FBS

Multimedia Systems (Cable Television and Multimedia Communications)

Palo Alto, California

2011

Consultant

Ropes & Gray LLP on behalf of Motorola Mobility, Inc.

Motorola Mobility, Inc. et al. v. Microsoft Corp.

USDC Washington and

International Trade Commission

ITC 337-TA-2770

Multimedia Systems (Video Coding)

East Palo Alto, California

2010 – 2011

Consultant and Expert Witness

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Motorola Mobility, Inc.

Motorola Mobility, Inc. v. Apple Inc.

USDC Southern District of Florida

Civil Action No. 1:10cv023580-Civ-UU

Multimedia Systems (Television Systems and User Interfaces)

New York, New York

2011 – 2014

Consultant and Expert Witness

Irell Manella, LLP on behalf of TiVo Inc.

Microsoft Corp. v. TiVo Inc. and AT&T Inc. v. TiVo Inc.

USDC Northern District of California

Civil Action No. C 10-00240 and CV 10-01059

Multimedia Systems (Video Systems and User Interfaces)

Los Angeles, California

2010

Consultant and Expert Witness * **

Quinn Emanuel Urquhart & Sullivan, LLP on behalf of Cablevision Systems Corp.

Cablevision Systems Corp. v. Verizon Communications, Inc.

(Involved exclusively with infringement analysis)

International Trade Commission

ITC 337-TA-712

Multimedia Systems (Cable Television and Multimedia Communications)

New York, New York

2010 – 2011

Consultant & Expert Witness *

Keker and Van Nest, LLP and Latham and Watkins, LLP on behalf of Broadcom Co.

Broadcom Corp. v. SiRF Technology, Inc. and CSR plc

(Involved exclusively with graphics imaging patents)

USDC Central District of California

Civil Action No. SACV08-546 JVS (MLGx)

Multimedia Systems (Graphics Processing and Display Systems)

San Francisco, California

2010 – 2011

Consultant & Expert Witness *

Winston & Strawn, LLP on behalf of Lear Group, Ltd.

Chamberlain Group, Inc. v. Lear Corp., Ltd

USDC Northern District of Illinois

Civil Action No. 05-cv-3449

Multimedia Systems (Signal Processing)

Chicago, Illinois

2009 – 2011

Consultant and Expert Witness * **

Jones Day on behalf of Arris Group, Inc.

Arris Group, Inc. v. SeaChange International, Inc.

USDC District of Delaware

Civil Action No. 01-011 (JJF)

Multimedia Systems (Video On-Demand Systems)

Chicago, Illinois

2009 – 2012

Consultant and Expert Witness

Marshall, Gerstein & Borun, LLP on behalf of Charter Communications, Inc.

Charter Communications, Inc. v. Verizon Communications, Inc.

USDC Eastern District of Virginia

Civil Action No. 3:08-cv-850

Multimedia Systems (Multimedia Networks)

Chicago, Illinois

2009

Consultant & Expert Witness *

McAndrews, Held & Malloy, Ltd. on behalf of Broadcom Co.

Broadcom Corp. v. SiRF Technology, Inc. and CSR plc

(Involved exclusively with graphics imaging patents)

USDC Central District of California

Civil Action No. SACV08-546 JVS (MLGx)

Multimedia Systems (Graphics Processing and Display Systems)

Chicago, Illinois

2008 – 2010

Consultant & Expert Witness *

Choate, Hall, Stewart, LLP on behalf of Hewlett-Packard Co.
Polaroid Corp. v. Hewlett-Packard Co.
USDC District of Delaware
Civil Action No. 06-738 (SLR)
Multimedia Systems (Image Processing)
Boston, Massachusetts
2008

Consultant & Expert Witness *

Fish & Richardson, P.C. on behalf of Hewlett-Packard Co.
Polaroid Corp. v. Hewlett-Packard Co.
USDC District of Delaware
Civil Action No. 06-738 (SLR)
Multimedia Systems (Image Processing)
San Diego, California
2007 – 2008

Consultant and Expert Witness

Simpson, Thacher & Bartlett, LLP on behalf of Collaboration Properties, Inc.
Collaboration Properties, Inc. v. Tandberg ASA and Tandberg, Inc.
USDC Northern District of California
Civil Action No. C:05-1940
Multimedia Systems (Multimedia Communications)
New York, New York
2007

Consultant and Expert Witness

Marshall, Gerstein & Borun, LLP on behalf of Charter Communications, Inc.
Rembrandt Technologies, LP v. Charter Communications, Inc.
USDC Eastern District of Texas
Civil Action No. 2-05-CV-000443 (TJW)
Multimedia Systems (Multimedia Coding)
Chicago, Illinois
2006

Consultant & Expert Witness

Latham & Watkins, LLP on behalf of C-Cor
C-Cor v. SeaChange International, Inc.
USDC District of Delaware
Civil Action No. 01-011 (JJF)
Multimedia Systems (Video On-Demand Systems)
New York, New York
2006

Consultant and Expert Witness

Irell Manella, LLP on behalf of TiVo Inc. and Humax USA, Inc.
EchoStar Technologies Corp. v. TiVo Inc. and Humax USA, Inc.
USDC Eastern District of Texas
Civil Action No. 5-05CV-81 DF CMC

Multimedia Systems (Multimedia Storage)
Newport Beach, California
2006

Consultant & Expert Witness *

Nixon & Vanderhye, P.C. on behalf of Touchtunes Music Corp.
1st Media Llc. v. Touchtunes Music Corp., Ecast, Inc., Fatburger Corp., and Rock-olo Manufacturing Corp.
USDC District of Nevada
Civil Action No. CV-S-05-1212-LDG-RJJ
Multimedia Systems (Jukebox Systems)
Arlington, Virginia
2006

Consultant & Expert Witness

Fitch, Even, Tabin & Flannery on behalf of SmartSignal Corp.
SmartSignal, Corp. v. Expert Microsystems, Inc.
USDC Northern District of Illinois
Civil Action No. 02-CV-7682
Multimedia Systems (Signal Processing and Pattern Recognition)
Chicago, Illinois
2005 – 2006

Consultant

Jones Day on behalf of International Business Machines (IBM) and Dell, Inc.
American Video Graphics, L.P. v. Hewlett-Packard Co. et al.
Multimedia Systems (Graphic Systems)
Chicago, Illinois
2004 – 2005

Consultant and Expert Witness

Fish & Richardson, P.C. on behalf of Xcelera Inc. and Mirror Image Internet, Inc.
Xcelera, Inc. et al. v. Speedera Networks, Inc.
USDC District of Delaware
Civil Action No. 04-0046
Multimedia Systems (Multimedia Networks)
Wilmington, Delaware
2004 – 2005

Consultant and Expert Witness

Latham & Watkins, LLP on behalf of AOL Time Warner Inc. and EarthLink, Inc.
Inline Connection Corporation v. AOL Time Warner Inc.
USDC District of Delaware
Civil Action No. 02-272
Multimedia Systems (Video Communications)
New York, New York
2003

Consultant & Expert Witness *

Latham & Watkins, LLP on behalf of 24/7 Media Inc.
Avenue A, Inc. v. 24/7 Media Inc.

USDC Western District of Washington
Civil Action No. C02-868C
Multimedia Systems (Internet Advertising)
New York, New York
2003 – 2004

Consultant & Expert Witness *

Nixon & Vanderhye, P.C. on behalf of Touchtunes Music Corp.
Ecast, Inc. and Rowe International, Inc. v. Touchtunes Music Corp.
USDC Northern District of California
Civil Action No. C-01-4298 PJH
Multimedia Systems (Jukebox Systems)
Arlington, Virginia
2002 – 2004

Consultant & Expert Witness

Latham & Watkins, LLP on behalf of 24/7 Media, Inc.
24/7 Media, Inc. v. Valueclick, Inc. and Mediaplex, Inc.
USDC Southern District of New York
Civil Action No. 02-CV-0950 (NRB)
Multimedia Systems (Internet Advertising)
New York, New York
2002

Consultant & Expert Witness * **

Latham & Watkins, LLP on behalf of nCUBE Corp.
nCUBE Corp. v. SeaChange International, Inc.
USDC District of Delaware
Civil Action No. 01-011 (JJF)
Multimedia Systems (Video On-Demand Systems)
Chicago, Illinois
2001 – 2002

Notation:

- * Testified by deposition.
- ** Testified at trial or hearing.