

List of Challenged Claims - USP 7,917,367
(element numbering added in format [x.y])

[11.1] A method for processing multi-modal natural language inputs, comprising:
[11.2] registering a plurality of mobile devices with a context manager in response to a registration module associated with the context manager receiving a communication from the plurality of mobile devices;
[11.3] subscribing the plurality of mobile devices registered with the context manager to one or more context events;
[11.4] receiving, at the context manager, a context input from one or more of the plurality of mobile devices registered with the context manager, wherein the context input includes a context change event; and
[11.5] informing the plurality of mobile devices registered with the context manager of the context change event, wherein informing the plurality of mobile devices registered with the context manager of the context change event synchronizes a context across the plurality of mobile devices.
[12] The method of claim 11, wherein a context tracking module associated with the context manager informs the plurality of mobile devices registered with the context manager of the context change event.
[15] The method of claim 11, further comprising removing, by the context manager, one or more of the plurality of mobile devices from the plurality of mobile devices registered with the context manager.
[17.1] The method of claim 11, further comprising:
[17.2] receiving a natural language utterance at a multi-modal voice user interface associated with at least one of the plurality of mobile devices registered with the context manager;
[17.3] identifying, using a knowledge-enhanced speech recognition engine associated with the at least one mobile device, one or more contexts that

completely or partially match one or more text combinations contained in text transcribed from the natural language utterance,
wherein identifying the matching contexts includes
comparing the text combinations against one or more grammar expression entries in a context description grammar
and
one or more expected contexts stored in a context stack synchronized through the context manager;

[17.4] scoring each of the identified matching contexts; and

[17.5] selecting the matching context having a highest score as a most likely context for the natural language utterance.

[18] The method of claim 17, wherein the context change event received at the context manager includes a communication from the at least one mobile device that indicates a change in context to the most likely context.