NATURAL LANGUAGE AS A MEANS OF UNIFYING APPLICATIONS AND FEATURES

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Digital Overload
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- Too many devices, applications, features

The 50 Best Free iPhone Apps of 2013

The 15 Best Free Android Apps
Digital Overload

• Too much communication
Too much information

- Web search for “speech recognition”
Keep it simple…
Just say or type what you want

Are there conferences that cover speech recognition in mobile devices?

Two Trends That Will Reshape Our Relationships With Mobile Devices
www.prweb.com/releases/2014/01/prweb11477795.htm

Jan 13, 2014 - The Mobile Voice Conference is organized by the Applied Voice Input Output ... technologies such as speech recognition into commercial reality for 25 years. The conference covers natural interaction with mobile devices, with ...
The Personal Assistant Model

• Call Mom.
• Launch MyFavoriteApplication.
• What’s the capital of Indonesia?
Skip steps

- How do I get from here to that restaurant?
- Text Alison I’m on my way.
- Remind me to call Jim tomorrow.
  - What time tomorrow?
General vs. Specialized Assistants

• Specific to
  • Company
  • Application
    • Help ("How do I...")
Web browser analogy

- General PA: Web browser
- Specialized PAs: Web sites
Web browser analogy

- General PA: Web browser
  - General PA will be able to invoke specialized PAs upon request
- Specialized PAs: Web sites
Web browser analogy

- General PA: Web browser
  - General PA will be able to invoke specialized PAs upon request
- Specialized PAs: Web sites
  - Every company will eventually need a company PA, just as they need a company web site today
The Productivity Paradox

- Rapid automation by technology is reducing jobs and their quality faster than the workforce can adapt
The Productivity Paradox

- Rapid automation by technology is reducing jobs and their quality faster than the workforce can adapt
- If there aren’t jobs and/or median income drops, where are the consumers?
The Productivity Paradox

- Rapid automation by technology is reducing jobs and their quality faster than the workforce can adapt
- If there aren’t jobs or median income drops, where are the buyers?
- A deeper discussion
A tighter human-computer connection

- Natural language and mobile devices
- Work *with* machines instead of against them
A tighter human-computer connection

• Natural language and mobile devices can be part of the solution
  • Creating a human-computer partnership that leverages the advantages of both
A tighter human-computer connection

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  • On-the-job aid and learning
A tighter human-computer connection

- Natural language and mobile devices can be part of the solution
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  - On-the-job aid and learning
  - Improving education with technology
A tighter human-computer connection

• Natural language and mobile devices can be part of the solution
  • Creating a human-computer partnership that leverages the advantages of both
  • On-the-job aid and learning
  • Improving education with technology
• Specialized personal assistants for these tasks
A human-computer partnership

• “What would life be like, if through the use of their assistants, everyone’s effective IQ jumped by 50 points?”
  • Vlad Sejnoha, Nuance CTO, in a Wired blog
Sooner...or later