Project Overview

- Develop technology for natural conversational interfaces
- Create methods to facilitate the rapid development of multi-lingual and multi-modal conversational systems
- Use existing SpeechBuilder utility as the basis for incorporating and evaluating research for Japanese systems

MIT2001-05: Research and Development of Multilingual and Multi-Modal Conversational Interfaces

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Progress Through December 2002

- **Generic dialogue module**
  - Suite of generic dialogue functions that can be easily configured to new applications via SpeechBuilder
  - Support for grammars and regularizing mechanism for common concepts such as dates and times

- **Corpus-based speech synthesis**
  - Recorded corpus for Mokusei weather information system
  - Exploring more general intonation model for Japanese

- **Redesign of SpeechBuilder compiler to support mirror web-site at NTT**
Research Plan for the Next Six Months

• Continue development of generic dialogue manager, and incorporate into SpeechBuilder
• Continue to develop corpus-based synthesizer for the Mokusei weather information domain
• Continue development of more general intonation model for Japanese speech synthesis
• Augment SpeechBuilder with recognizer information useful for developers (e.g., confidence scores, N-best outputs, timing information)