

- Explore language-independent approaches to speech understanding and generation
- Develop necessary human-language technologies to enable porting of conversational interfaces from English to Japanese
- Use existing Jupiter weather-information domain as test case

NTT - MIT Research Collaboration — Bi-Annual Report, January 1, 2001—June 30, 2001







Progress Through June 2001

- System deployment and data collection
 - Deployed Mokusei system at NTT Atsugi R&D center for use by NTT employees (~500 calls to date)
 - Expanded weather content for 150 Japanese cities obtained from commercially distributed information
- Refined Mokusei weather information system
 - Retrained speech recognizer obtains 8.5/33.1% word/sentence error rates on in-vocabulary data
 - Augmented natural language grammar covers 79% of test data, and obtains 12% concept error rate
 - Over 90% of test data responses considered fluent



9807-11: Multilingual Conversational Speech Research James Glass and Stephanie Seneff





Research Plan for the Next Six Months

- Deploy 2nd Mokusei system at NTT Kyoto Lab
- Set up toll-free numbers in Japan and U.S.
- Start new project July 1, 2001 entitled: "Multilingual, Multi-modal conversational interfaces"