Seminar
“Speech Recognition and Language Processing”
SS 03

Type	Schedule / Room	Start	Instructor
Ü2	by arrangement / seminar room Lehrstuhl Informatik VI	Vorbesprech. 7.2.03, 16^{00} Seminarr. i6	Prof. Dr.–Ing. H. Ney and Research Assistants

Content:

The seminar covers different topics from automatic speech recognition, langauge modelling, and natural language understanding:

- speech recognition
  - multi-pass search
  - A^* search
  - speaker adaptation
  - speaker normalization
  - discriminative training
  - discriminative model combination
  - confidence measures
- natural language understanding
  - error handling in spoken dialogue systems
  - natural language database queries using classification and regression trees
- language modelling
  - language modelling and word morphology using maximum entropy
  - parsing for language models
  - parsing algorithms for grammar-based language models

Assignment:

Applied Computer Science

Requirements:

- Vordiplom
- Participation in the lectures “Automatic Speech Recognition”, “Language Modelling”, or “Statistical Methods in Natural Language Processing”

References:

Original publications and passages from books.

Recurrence:

Each summer term.

Others:

Introduction (Vorbesprechung) and allocation of topics takes place on Friday, February 7, 2003, GEÄNDERT: 16^{00} h, seminar room Lehrstuhl für Informatik VI (room 6124).

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