

Laboratory Course

“Automatic Speech Recognition”

WS 2016/2017

Type	Schedule / Room	Start	Instructor
P4	Fr 10 ⁰⁰ -12 ⁰⁰ Seminarraum i6	will be announced	Prof. Dr.-Ing. H. Ney Dr. rer.nat. R. Schlüter Eugen Beck
Content: <p>The course will cover the implementation of a dynamic decoding algorithm for automatic speech recognition in C++. Given the trained probabilistic models, the goal of such a search algorithm is to find the most probable word sequence. Based on the state-of-the-art speech recognition software of the chair, we will implement a fast variant of a dynamic search method. To reduce the search effort, we will apply several pruning techniques. Finally, we will evaluate the software on a recognition task.</p> Assignment: <p>Applied Computer Science/ Field of Specialization</p> Requirements: <ul style="list-style-type: none">• Bachelor• Participation in at least one of the lectures “Introduction to Statistical Classification”, “Introduction to Automatic Speech Recognition”, or “Introduction to Statistical Methods in Natural Language Processing” is compulsory.• If a “Leistungsnachweis” was done in one of the above lectures, the participation in the seminar is guaranteed.• Practical experience with the programming language C/C++ are helpful. References: <p>Lecture notes und References from lecture “Introduction to Automatic Speech Recognition” and “Advanced Methods in Automatic Speech Recognition”</p> Recurrence: <p>Each winter term.</p> Others: <p>The first meeting will take place at the beginning of the term in the seminar room of the Lehrstuhl Informatik 6.</p> <p>In agreement with the participants the lab course will take place during the term or as a block at the end of the term. Among others its goal is to introduce candidates of Hiwi-jobs and diploma works to the methods used at the Lehrstuhl Informatik 6.</p> Enquiries to: <p>Eugen Beck, Lehrstuhl Informatik 6, Tel. 80-21634, E-Mail: beck@cs.rwth-aachen.de</p>			