

Modul

**Seminar Conversational AI –  
Research Trends**



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| Code               | tba                                |
| ECTS-Punkte        | 4                                  |
| Präsenzzeit (SWS)  | 2                                  |
| Dauer (Semester)   | 1                                  |
| Turnus             | Irregular                          |
| Unterrichtssprache | Englisch                           |
| Modulkoordinator   | Prof. Dr. Dr.-Ing. Wolfgang Minker |
| Dozenten           | Prof. Dr. Dr.-Ing. Wolfgang Minker |

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| Einordnung in die Studiengänge | <ul style="list-style-type: none"><li>• Informatik, M.Sc.</li><li>• Künstliche Intelligenz, M.Sc.</li><li>• Medieninformatik, M.Sc.</li><li>• Software Engineering, M.Sc.</li></ul> |
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| Vorkenntnisse | No particular pre-requisites required. |
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| Lernergebnisse | <p>The goal of the seminar is to achieve an in-depth understanding of recent research trends in conversational systems making use of advanced AI technologies. Students are able to carry out an exhaustive literature research. They are able to establish a written report in which concepts and ideas of the research papers they have studied are summarized and appropriate conclusions drawn. On the basis of their findings, students are able to provide a scientific talk and to discuss topically related questions with the audience. Students will practice their scientific presentation skills.</p> |
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| Inhalt | <p>Spoken-language based dialogue systems usually consist of speech recognition, semantic analysis, dialogue management, text generation and speech synthesis components. In the seminar we will discuss how AI techniques may be successfully used at every stage of these component technologies.</p> |
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| Literatur | The suggested reading will be assigned individually at the first meeting. |
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| Lehr- und Lernformen | <ul style="list-style-type: none"><li>• SWS: 0V / 0Ü / 0P / 0Pr / 2S</li><li>• Regular meetings with the scientific supervisor</li></ul> |
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| Arbeitsaufwand | <ul style="list-style-type: none"><li>• Attendance: 30 h</li><li>• Pre- and postpreparation: 90 h</li><li>• Overall: 120 h</li></ul> |
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| Prüfung und Bewertung | The evaluation of the module will be based on the quality of the scientific report (40%), the oral presentation (40%), and the way of working (20%). |
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| Notenbildung | Graded. |
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| Bemerkung | <p>The number of participants is limited.<br/>Further information may be found on <a href="http://dialogue-systems.org">dialogue-systems.org</a></p> |
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