1. Modul: [35180] Concentration Statistical Natural Language Processing

Addition to Module title:

<table>
<thead>
<tr>
<th>2. Module ID:</th>
<th>052400600</th>
<th>5. Module Duration:</th>
<th>2 Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Credits Points (CP):</td>
<td>12.0</td>
<td>6. Rotation Cycle:</td>
<td>every Semester</td>
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<td>4. Hours per week in term (sws):</td>
<td>8.0</td>
<td>7. Language:</td>
<td>English</td>
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<td>8. Module Responsible:</td>
<td>Univ.-Prof. Sebastian Pado</td>
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<td>9. Lecturers:</td>
<td>Dozenten des Instituts</td>
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<td>11. Requirements:</td>
<td>Familiarity with the foundations of statistical natural language processing</td>
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12. Learning Targets:
Students have gained a deep understanding of the methods used in statistical natural language processing to address computational tasks involving written or spoken language. They have acquired in depth knowledge of at least two subareas of statistical natural language processing; they understand the strengths and weaknesses of different methods used in these subareas; they are familiar with the relevant literature; they know about existing software tools relevant to the subarea and which problems they can be applied to.

13. Course Contents:
Selection of courses comprising a total of 8 SWS from at least two subareas of Statistical Natural Language Processing (please note that any course can be used for only one module over the entire course of studies). Examples:
- Statistical machine translation (4 SWS)
- Statistical dependency parsing (4 SWS)
- Advanced information retrieval (2 SWS)
- Tree Automata (4 SWS)
- further courses that are listed for this concentration in C@MPUS

14. References/Learning Aids:

15. Course:
[351801] Vorlesung Advanced Statistical Natural Language Processing (Translation not available)
[351802] Vorlesung Statistical language models and smoothing (Translation not available)
[351803] Vorlesung Statistical constituent parsing (Translation not available)
[351804] Vorlesung Statistical machine translation (Translation not available)
[351805] Vorlesung Advanced information retrieval (Translation not available)
[351806] Vorlesung Machine learning for NLP (Translation not available)
1. Modul: [35180] Concentration Statistical Natural Language Processing

Addition to Module title:

- [351807] Vorlesung Distributional and statistical approaches to semantics (Translation not available)
- [351808] Vorlesung Statistical NLP applications (Translation not available)
- [351809] Vorlesung Probabilistic models of language and cognition (Translation not available)

16. Estimation of Student Workload:

- Präsenzzeit: 112h,
- Selbststudium: 240h

17a. Study Achievements (Unmarked):

17b. Examination Achievements (Marked):

18. Basic for...

19. Media Form:

- Tafel, Folienprojektion

20. Exam names and numbers:

- [35181] Concentration Statistical Natural Language Processing (Translation not available) ( PL ) mündliche Prüfung 60 Min. Gewichtung: 1.0
- [35182] Vorleistung (Translation not available) ( USL-V ) schriftlich, eventuell mündlich Gewichtung: 1.0

21. Offered by:

- Institut für Maschinelles Sprachverarbeitung

Date: 23. January 2019