<	>	Conversational Informatics Conversational Informatics								
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Conversational interaction is considered to be a powerful communication means for intelligent actors, either natural or artificial, to interact each other to act as a collective intelligence. In this course, we study the mechanism of conversational interactions with verbal and nonverbal cues from computational points of view and discuss key issues in designing conversational systems that can interact with people in a conversational fashion.

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Students will understand conceptual, theoretical and computational aspects for building and analyzing conversationally intelligent systems.

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1. Artificial Intelligence and Conversational Intelligence
2. Architectures and Methodologies for Conversational Systems
3. Smart Interaction Environment
4. Conversation Measurement, Analysis, and Modeling
5. Learning by Mimicking and Temporal Data Mining
6. Techniques for Temporal Data Mining
7. Cognitive Design
8. Affective Computing
9. Theory of Mind
10. Conversation as a Phenomenon
11. Nonverbal Communication
12. Speaking Turn System
13. Using Language
14. Story Telling and Understanding
15. Synergy

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Credit is awarded on the basis of one or more written report on the subject discussed in the lecture.

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Toyoaki Nishida, Atsushi Nakazawa, Yoshimasa Ohmoto, Yasser Mohammad   Conversational Informatics: A Data-Intensive Approach with Emphasis on Nonverbal Communication   Springer   ISBN:978-4-431-55039-6

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Students are requested to prepare for each class by conducting a preliminary literature review and deepen the understanding of the issues by an extensive literature study after the class.

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KULASIS