Belief Change Course Outline

Course Number: CSC 85011  
Class Room: TBA  
Semester: Fall 2013  
Meeting Time: Tuesdays, 11:45 – 1:45 pm  
Instructor: Konstantinos Georgatos  
Room: 4410  
Email: kgeorgatos@jjay.cuny.edu

Course Description
I will cover various forms of belief change such as revision, contraction, and merging. Apart from the theoretical proposals involving postulates (such as the AGM theory of Belief Revision), semantics (system of spheres, geodesic semantics) and logical systems (such as conditional logic and dynamic epistemic logic), I will cover applications to action update and judgment aggregation.

Text  
Instructor’s Lecture Slides  
Source articles (see Reading List).

Course Outline

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<th>TOPICS</th>
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<tr>
<td>Introduction to Belief Change-Rationality Criteria</td>
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<td>AGM Postulates</td>
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<td>Nonmonotonic and Conditional Reasoning</td>
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<td>Preference</td>
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<td>Distance Based Semantics</td>
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<td>Dynamic Epistemic logic</td>
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<td>Merging and Judgment Aggregation</td>
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<td>Further Topics and Presentations</td>
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Assessment
There will be take home assignments based on the lectures and a final presentation of a topic to be chosen with the instructor.

Reading List