

From the
Semantic Web
to social
machines: A
research
challenge for
AI on the
World Wide
Web

Tomris Beril
Kurtoglu,
RWTH
Aachen

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Tomris Beril Kurtoglu, RWTH Aachen

12.11.2014

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- Jim Hendler, Tetherless World Constellation, RPI, United States



- Tim Bernes-Lee, Computer Science and AI Laboratory, MIT, United States

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- Lecture: Web Science (WS 2012) PD Dr. Ralf Klamma
- Fascinating Tim Berners Lee's talkings in (www.ted.com)

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- What are the research challenges that stand in the way of creating new generation of interacting social machines?
- What are the key issues relevant to AI field, in creating a technology platform that will allow users who want to attack to problems?
- How powerful semantic web can be?
- Which challenges do AI researchers face while developing contextual mechanism for the Web?
- What is information accountability?

What is not covered?

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- How to build a web site that can solve world hunger or mitigate the effects of global climate change?

Drug Discovery

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Context Phenomena

- Have high blood pressure? Take atenolol.(Are you sure?)
- Each person has a unique set of genes and lives in a particular physical and emotional environment.
- The challenge is...

Context Phenomena

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■ Class Differences.



C3PO (the robot in Star Wars) classifies as a person or as a robot?

■ Point of View.



Is Taiwan a country of its own, or a province of China?

■ Approximations.



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Thank you



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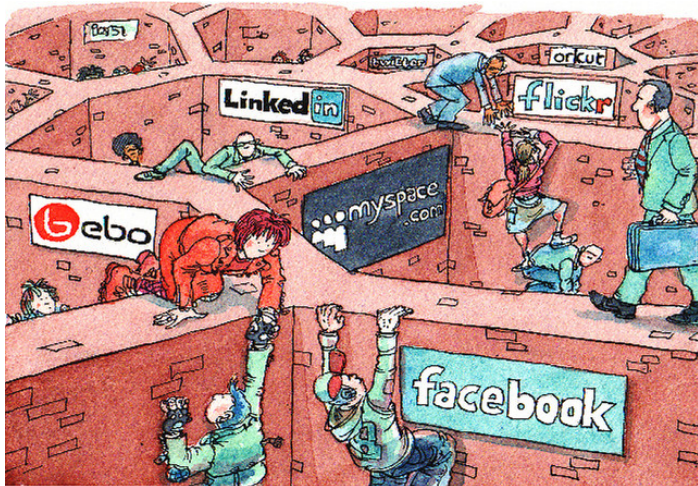
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???



Further Readings

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- D. Weitzner, H. Abelson, T. Berners-Lee, J. Feigenbaum, J. Hendler, G. Sussman, Information accountability, Communications of the ACM (June 2008).
- Ramanathan Guha, IBM Research, USA; Rob McCool, and Richard Fikes, Artificial Intelligence Laboratory, Stanford University, USA Contexts for the Semantic Web.