

iNTeg-Risk Course I.4 on Use of semantic technology (web text-mining) to generate early warning information for risk management

June 14, 2010

Stuttgart

Haus der Wirtschaft, Room Reutlingen
Willi-Bleicher-Strasse 19, 70174 Stuttgart



Event organized by

Concept of the course

Course Committee

M. Embrechts, Rensselaer Polytechnic Institute, United States

L. Keller, Blue Ocean-SWS, Switzerland

R. Schneider, Swiss Reinsurance Company, Switzerland

Contact & Organization

R. Kokejl, University of Stuttgart, Germany

M. Löscher, European Virtual Institute for Integrated Risk Management, Germany

About the course

Emerging Risk Managements relies very much on early warning information.

The internet gives a real-time access to almost infinite sources of information – semantic web technology offers the framework to build efficient and effective solutions to generate automatically highly relevant information for dedicated knowledge needs.

This course will give an overview about the technologies (and the providers) that fit early warning needs in risk management.

We will give an introduction to the concepts of semantic web technologies and semantic intelligences, and we will show running solutions in the sectors of nano-technologies, alternative energy, pharma product risks, and others.

Main benefits for the participants of this course are:

- Deep insight into the value of different web sources from a risk management perspective (scientific, stakeholder, government, databases, consumer generated contents).
- An overview of the potentials of semantic web technologies and semantic intelligence solutions and the major providers in the market.
- An introduction how to use these technologies and sources for emerging risk management purposes practically (2 professional examples used by re-insurances).

Target participants of this workshop are project managers, Innovation- and Knowledge- Managers, governmental experts and scientific representatives.

Agenda

14:00 – 14:15 Opening: Introduction and overview (L. Keller, Blue Ocean)

14:15 – 16:00 Session I

1. The Internet – the best, largest but totally unstructured database – and the challenges for knowledge generation (L. Keller, BlueOcean: 30')
2. Introduction to text mining (for non technical audience) (M. Embrechts, Rensselaer Polytechnic Institute: 45')
3. From Semantic statistics to Semantic Intelligence – new successful software solutions to understand really unstructured text and documents (L. Keller, BlueOcean: 30')

16:00 – 16:30 Break

16:30 – 18:00 Session II

4. Early Warning Information for Risk Management – Exp. Nano-Technology (L. Keller, BlueOcean)
5. Early Warning Information for Risk Management – Exp. Pharma Products and legal thread (R. Schneider, Swiss Re)

18:00 End of the course