

## 2<sup>ND</sup> CALL FOR CHAPTER PROPOSALS

Submission deadline: March 31, 2008

# *Handbook of Research on Social Dimensions of Semantic Technologies and Web Services*

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“The web isn’t about what you can do with computers. It’s people and, yes, they are connected by computers. But computer science, as the study of what happens in a computer, doesn’t tell you about what happens on the web.” Tim Berners-Lee, NY Times, Nov 02, 2006.

### **Introduction:**

The basic, underlying idea of the Semantic Web project is to create a universally recognized medium for exchanging information by giving meaning (semantics) to the contents of documents on the web in a way understandable by machines. The Semantic Web expands upon the WWW features through the introduction of standards, mark-up languages and the corresponding processing tools (e.g. inferential engines). The Semantic Web is now the most important influence on Web development.

A few years ago, it would have appeared impossible to develop a global web of semantically structured information to support inference. Now, semantic web is becoming a rapidly growing area in IT with emerging key developments, tools, and techniques that are engineering the web of the future, and determining a new way of accessing, using, and exploring information and creating knowledge.

The impact of IT on society, organizations, and individuals is growing as the power of the web is harnessing collective intelligence and knowledge. Today, the impact of IT on people and society has become a key challenge to semantic web and should be solved for semantic web to be effective.

### **The mission and overall objectives of this Handbook of Research:**

The mission of the proposed book is to discuss the main issues, challenges, opportunities and trends related to this new technology, semantic web, that is able to transform the way we use information and knowledge. The *Handbook of Research on Social Dimensions of Semantic Technologies and Web Services* will be a comprehensive publication which presents the social and technological dimensions of semantic technologies and web services, as well as the current developments, practical solutions, and applications in the field of semantic technologies and web services.

The overall objectives are:

- To discuss the importance of semantic web and emerging developments.
- To introduce the state-of-the-art technology supporting semantic web.

- To introduce and discuss the challenges and impact associated with semantic web, from the social perspective, online communities, social web, etc.
- To introduce recent technological developments and associated human / social implications.
- To introduce relevant and recent developments and solutions (academic and industrial) addressing the several dimensions and issues of the book.
- To discussion impact on several domains (organizational, social and technological).
- To discuss challenges and opportunities.

The book is intended to support both an academic audience (teachers, researchers and students, mainly of post-graduated studies) and professionals (system developers and IT specialists).

### **Recommended topics:**

The book intends to collect the most recent contributions at the social and technological dimensions of this largely multidisciplinary field called *Web Science*. Recommended topics include but are not limited to the following:

1. The **technological dimension**, that enables and supports the following: data capturing, storing, access, and exploitation; data composing and integration; and aggregating value from data. The technological dimension includes:
  - The semantic web philosophy, concepts, frameworks and enabling architectures.
  - The semantic web components (for example, standards and tools of XML, OWL, RSS); ontology alignment; semantic publishing; semantic translation; semantic data web browsers and end-points; semantic content extraction; reasoning supporting adaptive semantic collaboration; collaborative, community-driven ontology construction, etc.
  - Semantic Web and Ontologies (ontologies applied to different dimensions: cultural, educational, business, medicine, knowledge management, ...)
  - Current development trends and relevant R&D projects.
2. The **social and human dimension** which explores motivations, benefits and emergent effects of semantic web, and includes, for example:
  - analysis, visualization, presentation of social networks; architectures of semantic participation; trust and privacy issues; quality analysis of socially generated semantic content; analysis of motivations and behaviour of social software users; knowledge acquisition and ontology management; the social semantic web (blogs, wikis, discussion lists); online communities.
3. The **Business and entrepreneurial perspective** focusing the added value of specific social semantic web applications.
4. The **Impact, implications and challenges** (social and technological) of semantic web:
  - on individuals and communities; on learning; on organizations and business; on scientific knowledge; on research.
5. The **Ongoing developments and applications** to:
  - e-Business; knowledge management; e-Science; e-Learning; e-Community; e-Health.
6. **Integration with other disciplines**

### **Submission Procedure:**

Researchers and practitioners are invited to submit on or before March 31, 2008, a 1-2 page manuscript proposal clearly explaining the mission and concerns of the proposed chapter. Authors of accepted proposals will be notified by April 05 10, 2008 about the status of their proposals and will be sent chapter organization guidelines. Full chapters (8,000 to 10,000 words) are expected to be submitted by June 20, 2008. All submitted chapters will be reviewed on a double-blind review basis. The book is scheduled to be published in 2010 by IGI Global, <http://www.igi-global.com>, publisher of the IGI Publishing (formerly Idea Group Publishing), Information Science Publishing, IRM Press, CyberTech Publishing and Information Science Reference (formerly Idea Group Reference), and Medical Information Science Reference imprints.

Submissions should be forwarded electronically (**Word document as attachment**) to [handbook.semantic.web@gmail.com](mailto:handbook.semantic.web@gmail.com). LaTeX cannot be accepted.

### **For any questions, please contact the editors:**

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For more detailed information, please visit <http://handbooksemanticweb.ipca.pt>