Collaboration and the Semantic Web: Social Networks, Knowledge Networks, and Knowledge Resources

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Collaborative working has been increasingly viewed as a good practice for organizations to achieve efficiency. Organizations that work well in collaboration may have access to new sources of funding, deliver new, improved, and more integrated services, make savings on shared costs, and exchange knowledge, information and expertise.

Collaboration and the Semantic Web: Social Networks, Knowledge Networks and Knowledge Resources showcases cutting-edge research on the intersections of Semantic Web, collaborative work, and social media research, exploring how the resources of so-called social networking applications, which bring people together to interact and encourage sharing of personal information and ideas, can be tapped by Semantic Web techniques, making shared Web contents readable and processable for machine and intelligent applications, as well as humans. Semantic technologies have shown their potential for integrating valuable knowledge, and they are being applied to the composition of digital learning and working platforms. Integrated semantic applications, linked data, social networks, and networked digital solutions can now be used in collaborative environments and present participants with the context-aware information that they need.

Topics Covered:
- Collaborative learning environments
- Collaborative software engineering
- Integrated semantic applications
- Querying and discovering knowledge
- Semantic technologies
- Semantic Web

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Dealing with Structure Heterogeneity in Semantic Collaborative Information Systems
Zangerle Eva (University of Innsbruck, Austria)
Gassler Wolfgang (University of Innsbruck, Austria)

Chapter 2
Collaborative Mediation
Goodman Brian D. (IBM Corporation, USA)

Chapter 3
SpotTheLink:
Thaler Stefan (STI-Innsbruck, University of Innsbruck, Austria)
Simperl Elena (AIIFR, Karlsruhe Institute of Technology, Germany)
Siopras Katharina (STI-Innsbruck, University of Innsbruck, Austria)
Wölger Stephan (STI-Innsbruck, University of Innsbruck, Austria)

Chapter 4
Knowledge Management
Iqbal Salman (Massey University, Manawatu Campus, New Zealand)
Jalal Hayati Abdul (Massey University, Manawatu Campus, New Zealand)
Toulson Paul (Massey University, Manawatu Campus, New Zealand)
Tweed David (Massey University, Manawatu Campus, New Zealand)

Section 2: Exploiting Semantic Technologies and Principles for Supporting Collaborative and Social Environments

Chapter 5
Enhancing Social Networks with Agent and Semantic Web Technologies
Bergenti Federico (Università degli Studi di Parma, Italy)
Franchi Enrico (Università degli Studi di Parma, Italy)
Poggi Agostino (Università degli Studi di Parma, Italy)

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Exploiting Social Media Features for Automated Tag Recommendation
Abbasi Rabeek Ayaz (Quaid-i-Azam University, Pakistan)

Chapter 7
Semantic Technology for Improved Email Collaboration
Sceer Simon (DERI, National University of Ireland, Galway)

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Dobson Stephen (Sheffield Hallam University, UK)

Chapter 9
Data Mining, Validation, and Collaborative Knowledge Capture
Atzmueller Martin (University of Kassel, Germany)
Beer Stephanie (University Clinic of Wuerzburg, Germany)
Pappe Frank (University of Wuerzburg, Germany)

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Hidden Markov Models for Context-Aware Tag Query Prediction in Folksonomies
Trabelsi Chiraz (University Tunis El-Manar, Tunisia)
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Ben Yahia Sadok (University Tunis El-Manar, Tunisia)

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Palshok Gitish Keshav (Tata Research Development and Design Centre, India)

Section 4: Applications

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Ontological Collaboration Engineering
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Plumbaum Till (Berlin Institute of Technology, Germany)
De Luca Ernesto William (University of Applied Sciences Potsdam, Germany)
Predoia Livia (University of Magdeburg, Germany)

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Baharir Seyed Morteza (University of Kashan, Iran)

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Mertens Matthias (OFFIS – Institute for Information Technology, Germany)
Krahn Tobias (OFFIS – Institute for Information Technology, Germany)

Chapter 15
Knowledge Worker Performance in a Cross-Industrial Perspective
Erne Rainer (Leeds Metropolitan University, UK)

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