



**Peter Mika**, Yahoo! Research Barcelona

## Social Networks and the Semantic Web

Whether we changed the Web or the Web has changed us is difficult to discern, even with the wisdom of hindsight. **Social Networks and the Semantic Web** provides two major case studies. The first case study shows the possibilities of tracking a research community over the Web, combining the information obtained from the Web with other data sources, and analyzing the results. Social network mining from the Web plays an important role in this case study for obtaining large-scale, dynamic network data beyond the possibilities of survey methods. The second study highlights the role of the social context in user-generated classifications in content, such as the tagging systems known as folksonomies. **Social Networks and The Semantic Web** is designed for researchers and advanced-level students of the semantic Web and Web services, information systems, social and information sciences. This book is useful for practitioners in industry as well.

**Contents:** Foreword by Frank van Harmelen, author of the Semantic Web Primer.- Preface.- The Semantic Web and Social Networks.- The Semantic Web.- Social Network Analysis.- Semantic Technology for Social Network Analysis.- Electronic sources for network analysis.- Ontology-based Knowledge Representation.- Modelling and aggregating social network data.- Implementation of the methods.- Case Studies.- Evaluating electronic data extraction for network analysis.- Semantic-based Social Network Analysis in the sciences.- Ontologies are us: emergent semantics in folksonomy systems.- Conclusions.- Bibliography.- Index.

**Written for:** Advanced-level students and researchers in computer science, social and information sciences

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