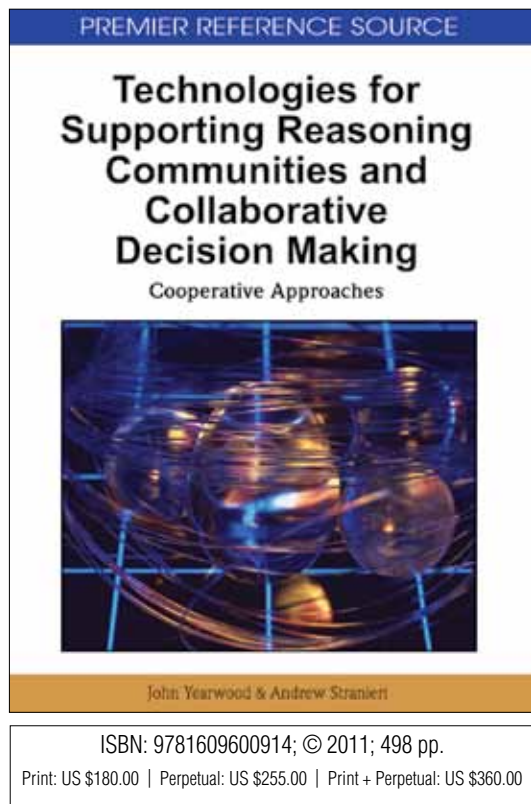


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## Technologies for Supporting Reasoning Communities and Collaborative Decision Making: Cooperative Approaches



John Yearwood (University of Ballarat, Australia)  
and Andrew Stranieri (University of Ballarat, Australia)

The information age has enabled unprecedented levels of data to be collected and stored. At the same time, society and organizations have become increasingly complex. Consequently, decisions in many facets have become increasingly complex but have the potential to be better informed.

**Technologies for Supporting Reasoning Communities and Collaborative Decision Making: Cooperative Approaches** includes chapters from diverse fields of enquiry including decision science, political science, argumentation, knowledge management, cognitive psychology and business intelligence. Each chapter illustrates a perspective on group reasoning that ultimately aims to lead to a greater understanding of reasoning communities and inform technological developments.

### Topics Covered:

- Cognitive tools for group decision making
- Communication and group performance
- Communities of practice in knowledge management
- Deliberative decision-making
- Deliberative democracy
- Group decision making for advanced manufacturing technology
- Group decision methods
- Information sharing and processing in computer mediated interactions
- Intersubjective reasoning
- Sociometric feedback

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## Section 1: Understanding Collaborative Reasoning

### Chapter 1

*An Argumentation Model of Deliberative Decision-Making*  
Walton Douglas (University of Windsor, Canada)

### Chapter 2

*Intersubjective Reasoning and the Formation of Metaconsensus*  
Niemeyer Simon (The Australian National University, Australia)

### Chapter 3

*Communication and Group Performance:*  
Li Shu-Chu Sarrina (National Chiao Tung University, Taiwan)  
Huang Lin-Mei (Shih Hsin University, Taiwan)  
Liu Yi-Ching (National Chiao Tung University, Taiwan)

### Chapter 4

*Information Sharing and Processing in Computer-Mediated Interactions*  
Campbell Jamonn (Shippensburg University, USA)

### Chapter 5

*Communities of Practice in Knowledge Management and Organisational Learning*  
Olszak Celina M. (University of Economics, Poland)  
Ziemba Ewa (University of Economics, Poland)

### Chapter 6

*A Reasoning Community Perspective on Deliberative Democracy*  
Yearwood John (University of Ballarat, Australia)  
Stranieri Andrew (University of Ballarat, Australia)

## Section 2: Enhancing Collaborative Reasoning

### Chapter 7

*Group Decision Making:*  
Saaty Thomas (University of Pittsburgh, USA)

### Chapter 8

*Distributed Collaborations and the Effect of Sociometric Feedback*  
Kim Taemie (MIT Media Lab, USA)  
Alex (Sandy) Pentland (MIT Media Lab, USA)

### Chapter 9

*Methods of Group Decisions and Aggregation of Experts' Opinions*  
Vaniček Jiří (Czech University of Life Sciences in Prague, Czech Republic)  
Vrana Ivan (Czech University of Life Sciences in Prague, Czech Republic)  
Aly Shady (Czech University of Life Sciences in Prague, Czech Republic)

### Chapter 10

*Cognitive Tools for Group Decision Making:*  
Castellani Marco (University of Brescia, Italy)

### Chapter 11

*Group Decision Making for Advanced Manufacturing Technology Selection Using the Choquet Integral*  
Kahraman Cengiz (Istanbul Technical University, Turkey)  
Çebi Selçuk (Karadeniz Technical University, Turkey)  
Kaya Ihsan (Selçuk University, Turkey)

### Chapter 12

*Indexing as an Ontological Support for Legal Reasoning*  
Schweighofer Erich (University of Vienna, Austria)

### Chapter 13

*A Case for the Re-Use of Community Reasoning*  
Stranieri Andrew (University of Ballarat, Australia)  
Yearwood John (University of Ballarat, Australia)

## Section 3: Collaborative Reasoning in the Real World

### Chapter 14

*Collaborative Transportation Sharing:*  
Gonzalez-Feliu Jesus (Université Lumière Lyon 2, France)  
Morana Joëlle (Université Lumière Lyon 2, France)

### Chapter 15

*Spatial Ontologies in Multi-Agent Environmental Planning*  
Borri Dino (Polytechnic University of Bari, Italy)  
Camarda Domenico (Polytechnic University of Bari, Italy)

### Chapter 16

*Chewing the Communal Cud:*  
Mummery Jane (University of Ballarat, Australia)  
Rodan Debbie (Edith Cowan University, Australia)

### Chapter 17

*Decision Support in Interest Based Negotiation Support Systems:*  
Bellucci Emilia (Victoria University, Australia)  
Zeleznikow John (Victoria University, Australia)

### Chapter 18

*Supporting Communities of Practice by Advancing Knowledge Management between Hybrid Collaborative Environments*  
De Liddo Anna (Open University, UK)  
Concilio Grazia (Politecnico di Milano, Italy)

## Section 4: Collaborative Reasoning in the Virtual World

### Chapter 19

*Negotiating Meaning in a Blog-Based Community:*  
Dennen Vanessa P. (Florida State University, USA)

### Chapter 20

*Establishing Reasoning Communities of Security Experts for Internet Commerce Security*  
Kelarev Andrei V. (University of Ballarat, Australia)  
Brown Simon (University of Ballarat, Australia)  
Watters Paul (University of Ballarat, Australia)  
Wu Xin-Wen (University of Ballarat, Australia)  
Dazeley Richard (University of Ballarat, Australia)

### Chapter 21

*Web Technologies and Reasoning Communities*  
Miller Charlynn (University of Ballarat, Australia)  
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