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Topics covered

Cognition
Computational Linguistics
Contextual Information
Data Mining
Indexation and Data Retrieval
Interfaces and Interactivity

Knowledge Engineering
Knowledge Representations
Language and Speech Processing
Language Processing and Communication
Learning
Simulation / Training

Forthcoming Sets

Human Factors and Technology in Transport coordinated by Anne Pauzie
Interaction of Syntax and Semantics in Discourse coordinated by Claire Doquet, Elizabeth Richard
Parsing coordinated by Joseph Mariani, Patrick Paroubek
Responsible Research and Innovation coordinated by Bernard Reber

Forthcoming Titles

Collaborative Annotation of Corpus by Fort Karên
Daily Knowledge Valuation in Organizations by Matta Nada, Atfi Hassan, Ducellier Guillaume
Design of the Learning Organization by Ben Chouikha Mona
Games with a Purpose (GWAPS) by Lafourcade Mathieu, Joubert Alain, Le Brun Nathalie
Introduction to Automatic Speech Processing and Natural Languages by Kurdi Zakaria
Languages Formalization, The NooJ’s Approach by Silberman Max
Named Entities for Computational Linguistics by Nouvel Damien, Ehrmann Maud, Rosset Sophie
Responsibility and Freedom by Gianni Robert
Knowledge management (KM) is the process of finding, distributing, and using knowledge about an organization effectively in a multi-disciplined approach.

Information Systems for Knowledge Management brings together leading authors in this field to discuss implementing KM through networks and information technology. Individual chapters cover various topics in the field, including assessing community maturity from a KM perspective; social networks; sociocultural KM in computer-supported collaborative learning; argumentation-based rough set theory and KM; using tacit knowledge in collaborative decision-making; information management in microblogs; KM systems in the legal domain; core ontologies; a multicriteria decision-making approach for business process evaluation; and a collaborative approach for knowledge codification, knowledge engineering methods and knowledge transfer.
Automatic Text Summarization
Edited by Juan-Manuel Torres-Moreno, Université d'Avignon et des Pays de Vaucluse (UAPV), France

Cognitive Science and Knowledge Management Series
ISBN: 9781848216686 • 2014 • 374 pages • USD 135.00 • ISTE-WILEY

The author presents the recent state of the art before describing the main problems of ATS, as well as the difficulties and solutions provided by the community.
The book provides recent advances in ATS, as well as current applications and trends.
The approaches are statistical, linguistic and symbolic. Several examples are also included in order to clarify the theoretical concepts.

Contents
Part 1. Foundations
1. Why Summarize Texts?
Part 2. Emerging Systems
6. Source and Domain-Specific Summarization.
7. Text Abstracting.

Comparable Corpora and Computer-assisted Translation
Estelle Maryline Delpech, University of Nantes, France

Coordinated by Narendra Jussien
ISBN: 9781848216891 • 2014 • 304 pages • USD 145.00 • ISTE-WILEY

The author focuses, in particular, on the identification of fertile translations, the management of multiple morphological structures, and the ranking of candidate translations.

Contents
Part 1. Applicative and scientific context
1. Leveraging comparable corpora for computer-assisted translation.
2. User-centered evaluation of lexicons extracted from comparable corpora.
3. Automatic Generation of Term Translations.
Part 2. Contributions to compositional translation
5. Experimental data.
Logical Modeling of Biological Systems
Edited by Luis Farinas del Cerro, IRIT, Toulouse, France Katsumi Inoue, National Institute of Informatics, Tokyo, Japan

Coordinated by Jean-Charles Pomerol

ISBN: 9781848216808 • 2014 • 432 pages • USD 185.00 • ISTE-WILEY

This book covers various aspects of logical modeling of biological systems, bringing together ten recent logic-based approaches to Systems Biology by leading scientists.

Contents

2. Reasoning on the Response of Logical Signaling Networks with ASP.
3. A Logical Model for Molecular Interaction Maps.
5. ASP for Construction and Validation of Regulatory Biological Networks.
6. Simulation-based Reasoning about Biological Pathways using Petri Nets and ASP.
8. Temporal Logic Modeling of Dynamical Behaviors: First-Order Patterns and Solvers.
10. Machine Learning of Biological Networks Using Abductive ILP.

Transfer and Management of Knowledge
Edited by Carolina Machado, University of Minho, Portugal J. Paulo Davim, University of Aveiro, Portugal

Cognitive Science and Knowledge Management Series

ISBN: 9781848216938 • 2014 • 336 pages • USD 125.00 • ISTE-WILEY

This title helps understand and implement the effective transfer and management of knowledge strategies in organizations.

Contents

2. Knowledge Exchange in Public–Private Partnerships: The Case of eCH.
3. Talent Development and Learning Challenges in CEE: The Case of Poland.
5. Organizational Trust and Knowledge Sharing in Portuguese Technological Enterprises.
6. Organizational Memory: A Preliminary Model Based on Insights from Neuroscience.
7. Delving Down to Learn Up: Knowledge Management and Health Reforms.
8. The Knowledge Spiral in Communities of Practice: Using Information Technology for Structuring the Collectivized Intelligence.
Knowledge Needs and Information Extraction
Towards an Artificial Consciousness
Nicolas Turenne, University of Paris-Est Marne la Vallée, France

Coordination by Jean-Charles Pomerol

ISBN: 9781848215153 • 2013 • 288 pages • USD 105.00 • ISTE-WILEY

The theory presented in this book is based on the hypothesis that an individual's main activities are developed by self-motivation, managed as an informational need.

Contents
2. Self-motivation on a Daily Basis.
3. The Notion of Need.
4. The Models of Social Organization.
5. Self Theories.
6. Theories of Motivation in Psychology.
7. Theories of Motivation in Neurosciences.
8. Language Modeling.
12. Impact of Self-Motivation on Written Information.
15. Fields of Interest for Text Mining.

Tools for Collaborative Decision-Making
Pascale Zarate, Toulouse 1 Capitole University, France

Coordination by Jean-Charles Pomerol

ISBN: 9781848215160 • 2013 • 128 pages • USD 65.00 • ISTE-WILEY

This book looks at the development of the decision-making process in organizations. Decision-aiding and its paradigm of problem solving are defined, showing how decision-makers now need to work in a cooperative way.

Contents
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