1. Record Nr. UNINA9910299989403321

Titolo	Automation, Communication and Cybernetics in Science and Engineering 2013/2014 / / herausgegeben von Sabina Jeschke, Ingrid Isenhardt, Frank Hees, Klaus Henning
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-08816-5
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (918 p.)
Disciplina	004 006.3 302.2 507.1
Soggetti	Computer science - Mathematics Artificial intelligence Robotics Automation Science - Study and teaching Communication Management Industrial management Computational Science and Engineering Artificial Intelligence Robotics and Automation Science Education Communication Studies Innovation/Technology Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Foreword -- List of Contributors -- Part 1: Agile and Turbulence-Suitable Processes for Knowledge and Technology Intensive Organizations -- Part 2: Next-Generation Teaching and Learning

Concepts for Universities and the Economy -- Part 3: Cognitive IT-Supported Processes for Heterogeneous and Cooperative Systems -- Part 4: Target Group-Adapted User Models for Innovation and Technology Development Processes -- Part 5: Semantic Networks and Ontologies for Complex Value Chains and Virtual Environments -- Appendix: Monographs and Published Books from IMA/ZLW & IfU.

Sommario/riassunto

This book continues the tradition of its predecessors “Automation, Communication and Cybernetics in Science and Engineering 2009/2010 and 2011/2012” and includes a representative selection of scientific publications from researchers at the institute cluster IMA/ZLW & IfU. IMA - Institute of Information Management in Mechanical Engineering ZLW - Center for Learning and Knowledge Management IfU - Associated Institute for Management Cybernetics e.V. Faculty of Mechanical Engineering, RWTH Aachen University The book presents a range of innovative fields of application, including: cognitive systems, cyber-physical production systems, robotics, automation technology, machine learning, natural language processing, data mining, predictive data analytics, visual analytics, innovation and diversity management, demographic models, virtual and remote laboratories, virtual and augmented realities, multimedia learning environments, organizational development and management cybernetics. The contributions selected reflect the fundamental paradigm shift toward an increasingly interdisciplinary research world – which has always been both the basis and spirit of the institute cluster IMA/ZLW & IfU. .