Table of Contents

Keynote Contributions

Just-in-Time Knowledge Management
Larry Kerschberg, Hanjo Jeong 1

Actor Model and Knowledge Management Systems: Social Interaction as a Framework for Knowledge Integration
Irma Becerra-Fernandez, TeWei Wang, Gul Agha, Thant Sin 19

Knowledge + Skills + "x"
Klaus Kornwachs 32

Intelligent Office Appliances (IOA)

1st Intelligent Office Appliances (IOA 2005): Knowledge Appliances in the Office of the Future
Ansgar Bernardi, Björn Decker, Harald Holz, Dirk Muthig, Naoyuki Nomura 48

Leveraging Passive Paper Piles to Active Objects in Personal Knowledge Spaces
Heiko Maus, Harald Holz, Ansgar Bernardi, Oleg Rostanin 50

Efficient Implementation of Intelligent Office Appliances with Software Product Lines
Thorsten Keuler, Theresa Lehner, Björn Decker, Dirk Muthig 60

Learning Software Organizations (LSO)

Trends in Learning Software Organizations: Current Needs and Future Solutions
Andreas Birk, Torgeir Dingsøyr 70

Kick-Off Workshops and Project Retrospectives – A Good Learning Software Organization Practice
Fred Frowin Fajtak 76

Substance, People, and Tools – Knowledge Management at sd&m
Arnim Buch, Bernhard Humm 82

Harvesting Knowledge Through a Method Framework in an Electronic Process Guide
Finn Olav Bjørnson, Tor Stålhane 86

Using Feedback for Supporting Software Team Improvement
Wolfgang Zuser, Thomas Grechenig 91

Exploring Communities of Practice for Product Family Engineering
Tor Erlend Fægri, Björn Decker, Torgeir Dingsøyr, Letizia Jaccheri, Patricia Lago, Dirk Muthig, Hans van Vliet 96

Systematical Validation of Learning in Agile Software Development Environment
Outi Salo 106

Knowledge Management in a Software Development Environment to Support Software Processes Deployment
Gleison Santos, Karina Villela, Mariano Montoni, Ana Regina Rocha, Guilherme H. Travassos, Sávio Figueiredo, Sômulo Mafra, Adriano Albuquerque, Benito Diaz Paret, Márcio Amaral 111

Experience-Based Support for Code Inspections
Markus Nick, Christian Denger, Torsten Willrich 121

New Generation E-Learning Technology by Web Services
Guido Dedene, Monique Snoeck, Manu De Backer, Wilfried Lemahieu 127

Future Studies of Learning Software Organizations
Kari Smolander, Kurt Schneider, Torgeir Dingsøyr, Finn Olav Bjørnsson, Pasi Juvonen, Päivi Ovaska 134

Facilitating Organisational Learning Through Causal Mapping Techniques in IS/IT Project Risk Management
Abdullah J. Al-Shehab, Robert T. Hughes, Graham Winstanley 145

Learner-Oriented Knowledge Management and KM-Oriented E-Learning (LOKMOL)

Integration of E-Learning and Knowledge Management – Barriers, Solutions and Future Issues
Eric Ras, Martin Memmel, Stephan Weibelzahl 155

From MASK Knowledge Management Methodology to Learning Activities Described with IMS – LD
Djilali Benmahamed, Jean-Louis Ermine, Pierre Tchounikine 165

Subjunctive Interfaces in Exploratory e-Learning
Klaus P. Jantke, Aran Lunzer, Jun Fujima 176

Supporting Competency Development in Informal Workplace Learning
Tobias Ley, Stefanie N. Lindstaedt, Dietrich Albert 189

Bridging the Gap Between Knowledge Management and E-Learning with Context-Aware Corporate Learning
Andreas Schmidt 203

The Promise of Automated Interactivity
Michael Yacci 214

Peer-to-Peer and Agent Infrastructures for Knowledge Management (PAIKM)

PAIKM-2005 — Peer-to-Peer and Agent Infrastructures for Knowledge Management
Andreas Abecker, Ludger van Elst, Steffen Staab 222

Automatic Hyperlink Creation Using P2P and Publish/Subscribe
Simon Courtenage, Steven Williams 224

Introducing Social Aspects to Search in Peer-to-Peer Networks
Simon Schenk 234

Knowledge Intensive Business Processes (KiBP)

Modelling and Analysis of Knowledge Intensive Business Processes
Julian Bahrs, Claudia Müller 243

Contrary Positions About Modeling Knowledge Work
Thomas Hädrich 248

Application of Knowledge Problem Patterns in Process Oriented Organizations
Markus Strohmaier, Stefanie N. Lindstaedt 259

German Workshop on Experience Management (GWEM)

Third German Workshop on Experience Management (GWEM 2005)
Armin Stahl, Martin Schaaf, Ralph Traphöner 269

On the Use of Vocabulary Knowledge for Learning Similarity Measures
Thomas Gabel 272

Introduction Strategy and Feedback from an Experience Management Project
Mirjam Minor 284

Applying Generalized Cases to Retrieval and Configuration of Life Insurance Policies
Alexander Tartakovski, Martin Schaaf, Rainer Maximini 293

Integrated Approach to Detect Inconspicuous Contents
Rosina Weber, Ilya Waldstein, Amit Deshpande, Jason M. Proctor 304

Knowledge Management in Medicine (KMM)

Workshop on Current Aspects of Knowledge Management in Medicine (KMM05)
Marita Muscholl, Kerstin Maximini 316

Clinical Experiences with a Knowledge-Based System in Sonography (SonoConsult)
Frank Puppe, Georg Buscher, Martin Atzmueller, Matthias Hüttig, Hans-Peter Buscher 319

Unlocking the Value of Clinical Information: What You Need to Do Now to Enjoy the Benefits in the Future
Hooman Katirai, Ulrich Sax 330

Knowledge Management in Internal Medicine Using Lotus Notus – A Knowledge Management Perspective
Christoph Bobrowski, Georg Kreymann 339

Integrated Clinical Pathways in Health Information Systems – An Architectural Concept
Marita Muscholl 349

Knowledge Discovery from Microbiology Data: Many-Sided Analysis of Antibiotic Resistance in Nosocomial Infections
Mykola Pechenizkiy, Alexey Tsymbal, Seppo Puuronen, Michael Shifrin, Irina Alexandrova 360

Semi-automatic Data Migration in a Self-medication Knowledge-Based System
Olivier Curé 373

Knowledge Management in International Professional Services Firms (KMIPSF)

Workshop Knowledge Management in International Professional Services Firms (KMIPSF 2005)
Marcus Willamowski, Oliver W. Wendel, Jan Kuhlmann 384

Creating a Culture of Knowledge Sharing in Law Firms – Some Obstacles and Solutions
Martin Schulz, Marcel Klugmann 386

Networks, Forms of Exchange and Motivations – Insights from Social Anthropology for the Issue of Knowledge Sharing
Dirk Klimkeit 392

Knowledge Management for Distributed Agile Processes: Models, Techniques, and Infrastructure (KMDAP)

Second Workshop on Knowledge Management for Distributed Agile Processes: Models, Techniques, and Infrastructure (KMDAP 2005)
Harald Holz, Heiko Maus, Naoyuki Nomura, Martin Schaaf 398

Agile Knowledge-Based Decision Making with Application to Project Management
Reuven Karni, Maya Kaner 400

Towards the Agile Management of Business Processes
Barbara Weber, Werner Wild 409

Towards Collaborative Agent-Based Knowledge Support for Time-Critical and Business-Critical Processes
Andrea Freßmann, Rainer Maximini, Thomas Sauer 420

Modeling Contexts for Business Process Oriented Knowledge Support
Marielba Zacarias, Artur Caetano, H. Sofia Pinto, José Tribolet 431

Revealed Processes in Knowledge Management
Kurt D. Fenstermacher 443

The Impact of Educational Background on Design Knowledge Sharing During Pair Programming: An Empirical Study
Emilio Bellini, Gerardo Canfora, Aniello Cimitile, Felix Garcia, Mario Piattini, Corrado Aaron Visaggio 455

Knowledge Management and Business Intelligence (KMBI)

Knowledge Management and Business Intelligence (KMBI 2005)
Bodo Rieger 466

Integrating Semi-structured Data into Business Applications: A Web Intelligence Example
Robert Baumgartner, Oliver Frölich, Georg Gottlob, Marcus Herzog, Peter Lehmann 469

From Knowledge Discovery to Implementation: A Business Intelligence Approach Using Neural Network Rule Extraction and Decision Tables
Christophe Mues, Bart Baesens, Rudy Setiono, Jan Vanthienen 483

Intelligent IT Tools for Knowledge Management Systems: (KMTOOLS 2005)

Workshop on Intelligent IT Tools for Knowledge Management Systems: Applicability, Usability, and Benefits
Ulrich Reimer, York Sure, Andreas Eberhart, Edith Maier, Hans-Peter Schnurr 496

Human Resource Management with Ontologies
Ernst Biesalski, Andreas Abecker 499

Supervised Learning of an Ontology Alignment Process
Marc Ehrig, York Sure, Steffen Staab 508

ESpotter: Adaptive Named Entity Recognition for Web Browsing
Jianhan Zhu, Victoria Uren, Enrico Motta 518

Using Digital Communication Structures to Support Knowledge Management
Karsten Böhm, Alexander Scherf 530

Business Process Support as a Basis for Computerized Knowledge Management
Birger Andersson, Ilia Bider, Erik Perjons 542

Semantic Model Integration (SMI)

Semantic Interoperability Among Models – 1st Workshop on Semantic Model Integration (SMI05)
Sven Abels, Liane Haak, Axel Hahn 554

Metamodelling of Domain-Specific Standards for Semantic Interoperability
Wilhelm Hasselbring, Susanne Pedersen 557

Ontology Mapping by Axioms (OMA)
Marc Ehrig, York Sure 560

Towards an Integrated BPM Schema: Control Flow Heterogeneity of PNML and BPEL4WS
Jan Mendling, Cristian Pérez de Laborda, Uwe Zdun 570

Workshop on Philosophy and Informatics (WSPI)

Working Together in Philosophy and Informatics: An Introduction to the Contributions of the Second International Workshop on Philosophy and Informatics (WSPI 2005)
Thilo Deussen, Thomas R. Roth-Berghofer, Gregor Büchel, Bertin Klein 580

Knowledge Representation and the Embodied Mind: Towards a Philosophy and Technology of Personalized Informatics
Wolf-Tilo Balke, Klaus Mainzer 586

Knowledge, Action, and Context: Impact on Knowledge Management
Uwe V. Riss 598

Modelling Ontology Use for Information Systems
Roland Kaschek 609

How to Do Philosophy Informationally
Gian Maria Greco, Gianluca Paronitti, Matteo Turilli, Luciano Floridi 623

Epistemological Perspectives on IS-Development – A Consensus-Oriented Approach on Conceptual Modeling
Björn Niehaves, Karsten Klose, Ralf Knackstedt, Jörg Becker 635

Collecting or *Classifying*?
Francis Rousseaux, Thomas Bouaziz 647

Does Ontology Influence Technological Projects? The Case of Irish Electronic Voting
Bruno Zelić, Bernd Carsten Stahl 657

Mapping the Multitude – Categories in a Process Ontology
Ruth Hagengruber 668

Workshop on Information Just-in-Time (WIJIT)

Workshop on Information Just-in-Time (WIJIT2005): Seeking a New Knowledge Management Paradigm
Hiromichi Fujisawa, Larry Kerschberg 676

A Process for Delivering Information Just in Time
Kurt D. Fenstermacher 679

MAKO-PM: Just-in-Time Process Model
Riki Y. Morikawa, Larry Kerschberg 688

Knowledge Creation Framework – Enabling Just-in-Time Information Delivery
Mark Siebert 699

Just-in-Time Interactive Document Search
Makoto Iwayama, Yoshiki Niwa 710

Knowledge Management in Small and Medium Enterprises (WMKMU)

Knowledge Management in Small and Medium Enterprises (WMKMU 2005): Integration of HR and IT Perspectives
Brigitte Bartsch-Spörl, Klaus North, Peter Pawlowsky 719

KnowBiT – Knowledge Management in the Biotechnology Industry
Alexander Scherf, Karsten Böhm 721

Introduction of a Knowledge Information System in a SME, "Skill Matrix" as Pilot Scheme
Roman Povalej, Wolffried Stucky 729

Author Index 737