

1. Record Nr.	UNINA9910484729503321
Titolo	On the Move to Meaningful Internet Systems: OTM 2015 Workshops : Confederated International Workshops: OTM Academy, OTM Industry Case Studies Program, EI2N, FBM, INBAST, ISDE, META4eS, and MSC 2015, Rhodes, Greece, October 26-30, 2015. Proceedings // edited by Ioana Ciuciu, Hervé Panetto, Christophe Debruyne, Alexis Aubry, Peter Bollen, Rafael Valencia-Garcia, Alok Mishra, Anna Fensel, Fernando Ferri
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-26138-X
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (XXIX, 578 p. 193 illus. in color.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI ; ; 9416
Disciplina	004.6
Soggetti	Application software Information storage and retrieval Artificial intelligence Software engineering Computer communication systems Algorithms Information Systems Applications (incl. Internet) Information Storage and Retrieval Artificial Intelligence Software Engineering Computer Communication Networks Algorithm Analysis and Problem Complexity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Intro -- General Co-Chairs' Message for On TheMove 2015, Rhodes, Greece -- Organization -- On TheMove 2015 Keynotes -- Data Semantics in the Days of Big Data -- Reusable Coordination Components: A Silver Bullet for Reliable Development of Cooperative Information Systems? -- Durable Modeling and Ever-Changing

Implementation Technologies -- From (Security) Research to Innovation
-- Contents -- On The Move Academy (OTMA) 2015 -- The 12th
OnTheMove Academy PC Chairs' Message -- Adaptation Mechanisms
for Role-Based Software Systems -- 1 Introduction and Related Work --
2 Discussion -- References -- Time Management in Workflows with
Loops -- 1 Introduction -- 2 Related Work -- 3 Research Goals -- 4
Work Plan and Research Methodology -- References -- Intercloud
Communication for Value-Added Smart Home and Smart Grid Services
-- 1 Introduction -- 2 Related Work -- 3 Research Hypotheses -- 4
Research Methods and Material -- 5 Discussion and Future Work -- 6
Conclusion -- References -- Dynamics in Linked Data Environments --
1 Introduction -- 2 Related Work -- 3 Research Hypotheses -- 4
Material -- 5 Methods/Work Plan -- 6 Preliminary Results -- 7
Future/Planned Work -- 8 Conclusion -- References -- Industry Case
Studies Program (ICSP) 2015 -- ICSP 2015 PC Chair's Message --
Continuous Data Collection Framework for Manufacturing Industries --
1 Introduction -- 2 Background -- 2.1 Motivation -- 3 Continuous
Data Collection Framework -- 3.1 DCF Architectural Principles - Cloud
Computing Paradigm -- 3.2 DCF Architecture -- 4 Application Scenario
in Manufacturing Industry -- 4.1 Technology Adoption -- 5 Conclusion
-- References -- Determination of Manufacturing Unit Root-Cause
Analysis Based on Conditional Monitoring Parameters Using In-Memory
Paradigm and Data-Hub Rule Based Optimization Platform -- 1
Introduction -- 2 Data Hub and Information Infrastructure.
3 Root Cause Analysis use Case -- 4 Conclusion -- References --
"Wear" Is the Manufacturing Future: The Latest Fashion Hitting the
Workplace -- 1 Introduction -- 2 Data Expansion and Miniaturisation of
Devices -- 3 Flexible Cyber Physical Systems -- 3.1 Google Glass /
Alphabet -- 3.2 Facebook and Oculus Rift in the Automotive Industry
-- 3.3 Microsoft's Venture into the World of Wearables -- 4 The
Wearable Future -- 5 Interoperability for Cyber Physical Systems -- 6
Next Steps -- Evaluating the Utilization of the ProcessGene Repository
for Generating Enterprise-Specific Business Processes Models -- 1
Introduction -- 2 The ProcessGene Process Repository -- 3
Experiments -- 3.1 Data -- 3.2 Evaluation Methodology -- 3.3 Results
and Analysis -- 4 Conclusions -- References -- Impact of Internet of
Things in the Retail Industry -- 1 Introduction -- 2 IoT and Retail
Industry -- 3 Architecture -- 4 Value Proposition for Business Process
in IoT - Case Study -- References -- An Internet of Things (IoT) Based
Cyber Physical Framework for Advanced Manufacturing -- 1
Introduction -- 2 Benefits of IoT Based Frameworks and Emergence of
the Next Internet -- 3 Overview of IoT Based Cyber Physical Framework
-- 4 Discussion and Test Cases -- 5 Conclusion -- References --
International Workshop on Enterprise Integration, Interoperability and
Networking (EI2N) 2015 -- EI2N'2015 Co-Chairs' Message -- Subject-
Oriented BPM as the Glue for Integrating Enterprise Processes in Smart
Factories -- 1 Introduction -- 2 Subject-Oriented Business Process
Management -- 2.1 Notation -- 2.2 Encapsulation -- 3 Vertical Process
Integration Based on S-BPM -- 4 Prototype -- 5 Conclusion --
References -- Extended Service Modelling Language for Enterprise
Network Integration -- 1 Introduction -- 2 State of Art -- 3 Service
Oriented Modelling Framework for Enterprise Networks Integration.
4 Business Process Modelling Language for Enterprise Networks
Integration -- 5 Service Process Modelling in Collaboration Point -- 6
Operation Process Modelling and Model Mapping Method -- 7 Cases
Studying -- 8 Summary and Conclusion -- References -- SAIL: A
Domain-Specific Language for Semantic-Aided Automation of Interface
Mapping in Enterprise Integration -- 1 Introduction -- 2 Related Work

-- 3 The Mapping Process -- Mapping Criteria. -- Conflict Detection and Resolution. -- Expression Building. -- 4 Framework Architecture and Implementation -- 5 Parametrisation Using SAIL -- Property Accessors. -- Conditional Expressions. -- Matchers. -- Conflict Detectors. -- Expression Builders. -- 6 Conclusion and Future Work -- References -- Propelling SMEs Business Intelligence Through Linked Data Production and Consumption -- 1 Introduction -- 2 A Glimpse at the LinDA Workbench -- 3 Real-Life Scenario - Linked Data for the Pharmaceutical Sector -- 3.1 Pharmaceutical Scenario Implementation -- 4 Delivering the Real Value of Linked Data to SMEs -- 5 Conclusions -- References -- A Domain Specific Language for Organisational Interoperability -- 1 Introduction -- 2 CAS Extended Ontology of Enterprise Interoperability (OoEICAS) -- 3 A OoEICAS Domain Specific Language Supporting the SuddEN Frame of Reference -- 3.1 Scala Implementation -- 3.2 Multi Actor Systems -- 3.3 Multi Agent System Infrastructure -- 3.4 Process Simulation for Interoperability -- 4 Conclusions -- Understanding Personal Mobility Patterns for Proactive Recommendations -- 1 Introduction -- 2 Related Work -- 3 Methodology for Extracting Frequent Locations -- 4 Extracting Frequent Locations -- 5 Assessment -- 6 Conclusions and Future Work -- References -- A Real-Time Architecture for Proactive Decision Making in Manufacturing Enterprises -- 1 Introduction and Motivation. 2 Enabling Technologies and Related Work -- 3 A Conceptual Architecture for Decision Making in the Proactive Manufacturing Enterprise -- 4 Envisaged Scenario -- 5 Conclusions and Future Work -- References -- Osmotic Event Detection and Processing for the Sensing-Liquid Enterprise -- 1 Introduction -- 2 Osmotic Sensing-Liquid Enterprise Framework -- 2.1 The OSMOSE Metaphor -- 2.2 Osmotic Event-Driven Architecture and Implementation -- 2.3 Osmotic Knowledge and Context Management Approach -- 3 Semantic Web Enabled Complex Event Processing -- 4 Osmotic Event Detection and Processing -- 4.1 Osmotic Process Modeling -- 4.2 Semantic Event Detection and Decision Making -- 4.3 Runtime Osmotic Event Processing -- 5 Sensing-Liquid Enterprise Application in the OSMOSE Project -- 6 Conclusion and Future Work -- References -- PiE - Processes in Events: Interconnections in Ambient Assisted Living -- 1 Introduction -- 2 State of the Art -- 3 Running Example -- 4 Events Classification -- 5 Multiple Process Annotation -- 5.1 Events to Processes Mapping -- 5.2 Events Correlation Discovery -- 5.3 Process to Process Interconnection -- 5.4 The AAL Example: Interconnections Between Processes -- 6 Process Analysis: Mining Information from Events -- 7 Final Remarks -- References -- International Workshop on Fact Based Modeling (FBM) 2015 -- FBM PC Co-Chairs' Message -- Developing and Maintaining Durable Specifications for Law or Regulation Based Services -- 1 Introduction -- 2 Dutch Tax and Customs Administration -- 2.1 DTCA's Approach 'Agile Execution of Legislation' -- 3 Case "Tax Assessment" -- 3.1 Analysis of Legislation -- 4 Conclusions and Future Work -- References -- Fact Based Legal Benefits Services -- 1 Introduction -- 2 Dutch Tax and Customs Administration -- 2.1 DTCA's Approach 'Agile Execution of Legislation' -- 2.2 Collaboration with 'The Blue Chamber'. 2.3 An Overview of the Approach -- 3 The Benefits Services -- 3.1 The Derivation of the Legal Consequences -- 4 Conclusions and Future Work -- References -- Integrating Modelling Disciplines at Conceptual Semantic Level -- 1 Introduction -- 2 Major Pitfall of the Disconnected Approach -- 2.1 Insight and Understanding Requires a Semantic Approach -- 3 A Fully Integrated Modelling Approach -- 4 Processes as an Ordering of Rules -- 4.1 Exchange Rules -- 5

Conclusions and Future Research -- References -- Using Fact-Based Modelling to Develop a Common Language A Use Case -- 1
Introduction -- 2 The Role of the Semantic Information Model -- 3 The Elements of the Meta Model of the Semantic Information Model -- 3.1 Business Concepts and Business Facts -- 3.2 Business Terms -- 3.3 Definitions -- 4 The Protocol -- 4.1 Definition Development and Validation Process -- 5 Quality Criteria -- 6 Conclusions and Future Work -- References -- Achieving Interoperability at Semantic Level -- 1 Introduction -- 2 Fact-Based Modelling -- 2.1 The Knowledge Triangle -- 3 Fact-Based Modelling and Semantic Interoperability -- 3.1 Conceptual Model at Global Level -- 3.2 Achieving Interoperability -- 4 FAMOUS-2 as Supporting Tool -- 5 Conclusions -- References -- The Great Work of Michael Senko as a Part of a Durable Application Model -- 1 Introduction -- 2 The Modeling Constructs in NLM for Capturing the Durable Application Model -- 2.1 The Natural Language Axiom -- 2.2 Variables and Roles: Both are Needed -- 2.3 Naming Convention Fact Types -- 2.4 Compound Reference Schemes -- 2.5 The Basic Durable Application Model -- 3 The NLM Representation Ontology -- 4 Conclusion: A Hierarchy in the NLM Durable Semantic Modeling Constructs -- References -- The Evolution Towards a Uniform Referencing Mode in Fact-Based Modeling -- 1 Introduction.
1.1 The Running Example: University Staff Languages Spoken Abroad.

Sommario/riassunto

This volume constitutes the refereed proceedings of the following 8 International Workshops: OTM Academy; OTM Industry Case Studies Program; Enterprise Integration, Interoperability, and Networking, EI2N; International Workshop on Fact Based Modeling 2015, FBM; Industrial and Business Applications of Semantic Web Technologies, INBAST; Information Systems, om Distributed Environment, ISDE; Methods, Evaluation, Tools and Applications for the Creation and Consumption of Structured Data for the e-Society, META4eS; and Mobile and Social Computing for collaborative interactions, MSC 2015. These workshops were held as associated events at OTM 2015, the federated conferences "On The Move Towards Meaningful Internet Systems and Ubiquitous Computing", in Rhodes, Greece, in October 2015. The 55 full papers presented together with 3 short papers and 2 popsters were carefully reviewed and selected from a total of 100 submissions. The workshops share the distributed aspects of modern computing systems, they experience the application pull created by the Internet and by the so-called Semantic Web, in particular developments of Big Data, increased importance of security issues, and the globalization of mobile-based technologies.
