

1. Record Nr.	UNINA9910254995603321
Titolo	Advances in Enterprise Engineering X [[electronic resource] ] : 6th Enterprise Engineering Working Conference, EEWC 2016, Funchal, Madeira Island, Portugal, May 30-June 3 2016, Proceedings // edited by David Aveiro, Robert Pergl, Duarte Gouveia
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-39567-X
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (X, 197 p. 44 illus.)
Collana	Lecture Notes in Business Information Processing, , 1865-1348 ; ; 252
Disciplina	620.7
Soggetti	Management information systems Application software Enterprise Architecture Information Systems Applications (incl. Internet) Computer Appl. in Administrative Data Processing Business Information Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Organization Implementation -- Formalizing Organization Implementation -- 1 Introduction -- 2 Way of Thinking -- 3 Way of Working -- 4 Result -- 4.1 Goals and Requirements -- 4.2 Use of Existing Theories -- 4.3 Concepts -- 4.4 Construction and Evaluation Process -- 4.5 Additions to Knowledge Base and Practice -- 4.6 Examples -- 5 Conclusions and Future Research -- References -- Supporting Goal-Oriented Organizational Implementation - Combining DEMO and Process Simulation in a Practice-Tested Method -- 1 Introduction -- 2 Research Design -- 2.1 Problem Statement -- 2.2 Proposed Way of Thinking -- 2.3 Proposed Way of Working -- 3 The Approach in Practice -- 4 Results in Practice -- 5 Conclusions and Future Research -- References -- Value and Co-creation -- Objectifying Value Co-creation - An Exploratory Study -- Abstract -- 1 Introduction -- 2 Related Work -- 2.1 Service Science -- 2.2 The Discipline of Enterprise Engineering (EE)

-- 2.3 Value Modelling -- 2.4 Value-Oriented System Development Process -- 3 Objectifying Value Co-creation: Modelling Co-design and Co-production -- 3.1 Flower Shop Case Description -- 3.2 Modelling the Case with DEMO and e3Value -- 3.3 (Re)defining Co-creation: Co-design and Co-production -- 4 Conclusion -- 4.1 Limitations -- 4.2 Future Work -- References -- Towards Co-creation and Co-production in Production Chains Modeled in DEMO with REA Support -- Abstract -- 1 Introduction -- 1.1 Objectives of this Paper -- 1.2 Practical Objectives of the Approach -- 2 Introduction to REA, DEMO and Software Technologies -- 2.1 REA Ontology -- 2.2 DEMO Ontology -- 2.3 Enterprise Operating System -- 2.4 The Four Technologies of the Enterprise Operating System -- 2.5 REA Ontology Support -- 3 Ontological DEMO Model for Co-creation and Co-production. 3.1 The World of Co-creation and Co-production -- 3.2 Proposed Ontological Co-creation and Co-production Model -- 3.3 Discussion of the Model Duality -- 3.4 Avoiding the Notion of Value in DEMO Models -- 4 Future Research Topics -- 4.1 Extensive Ontological CC-CP Model Validation -- 4.2 Extension of the CC-CP Model with Implementation Specific Transactions -- 4.3 Conceptual Mapping of DEMO to REA -- 4.4 REA Value Chain Analysis -- Acknowledgements -- References -- Evolvability -- Building an Evolvable Prototype for a Multiple GAAP Accounting Information System -- 1 Introduction -- 2 Design Science Methodology -- 3 Problem Statement and Earlier Research -- 3.1 Problem Statement -- 3.2 Earlier Research -- 4 Normalized Systems Theory -- 5 Prototype -- 5.1 Creating Prototypes -- 5.2 Building an Initial Data Model and Prototype -- 5.3 A Second Version of the Prototype -- 5.4 Adding Posting Functionality to the Prototype -- 6 Evaluation -- 6.1 Evaluation Regarding the Design Principles -- 6.2 Configuration of Prototype -- 6.3 Evaluating the Impact of Change 1 -- 6.4 Evaluating the Impact of Change 2 -- 7 Conclusion -- References -- On the Evolvable and Traceable Design of (Under)graduate Education Programs -- 1 Introduction -- 2 Normalized System Theory -- 3 Study Program Design as a Modular System -- 3.1 Modularity -- 3.2 Cohesion -- 3.3 Coupling -- 4 Evolvability and Traceability of a Study Program Design -- 4.1 Evolvability -- 4.2 Traceability -- 5 Study Program Cases -- 5.1 Study Program Design at a Faculty of Applied Economics -- 5.2 Study Program Design at a NGO -- 6 Conclusion and Future Research -- References -- Modelling, Patterns and Viability -- Perceptual Discriminability in Conceptual Modeling -- Abstract -- 1 Introduction -- 2 Perceptual Discriminability -- 3 Visual Attention -- 3.1 Similarity Theory -- 3.2 Boolean Map Theory. 3.3 Feature Hierarchy -- 3.4 Implications for Conceptual Modeling -- 4 Central Constructs of Modeling Grammars -- 5 Applying (Extended) Perceptual Discriminability to ERD -- 6 Discussion -- From the Essence of an Enterprise Towards Enterprise Ontology Patterns -- Abstract -- 1 Introduction -- 2 Ontological Foundations of Enterprise Ontology Patterns -- 2.1 The Unified Foundational Ontology (UFO) -- 2.2 The DEMO Theory and Methodology of Enterprise Ontology -- 3 A Formal Enterprise Ontology Pattern Language -- 3.1 Participation in a Transaction -- 3.2 Coordination Acts and Facts -- 3.3 Production Acts -- 3.4 Production Facts -- 4 Applying the Enterprise Ontology Patterns: A Case Study -- 5 Final Considerations -- Acknowledgments -- References -- Extended Viable System Model -- Abstract -- 1 Introduction -- 2 VSM Description -- 3 VSM Extension -- 4 Case Study -- 5 Conclusion -- Foundations of Enterprise Engineering -- Towards the Ontological Foundations for the Software Executable DEMO Action and Fact Models -- 1 Introduction -- 2 Scientific Theories and Methodologies Applied -- 3 Formulation of the Research Question --

3.1 The DEMO Machine Concept -- 3.2 Appropriateness of the DEMOSL for DEMO Machine Implementation -- 3.3 Formulation of Ontology for DEMO Machine -- 3.4 Verification and Validation Questions of the Research Question -- 4 Axiomatic Specifications of the Fact, Agenda and Rule Ontology -- 4.1 Addressing the DEMOSL-DEMO Machine Deficiencies -- 4.2 Fact Axioms -- 4.3 Agenda Axioms -- 4.4 Rules and Dependencies Axioms -- 5 Discussion and Evaluation of the FAR Ontology -- 5.1 Falsifiable Proposition of the FAR Ontology -- 6 Related Work -- 6.1 Model-Driven Development -- 6.2 XModel -- 6.3 The DEMO Engine and the Enterprise Operating System -- 7 Conclusions and Further Research -- References.

Cross Channel Communication Design Critical Literature Review -- 1 Introduction -- 2 Communication Viewpoints -- 2.1 Customer Centric Viewpoint -- 2.2 Company Centric Viewpoint -- 3 Channels -- 3.1 Channel Characteristics -- 3.2 Channel Issues -- 3.3 Channel Organization -- 3.4 The Notion of Channel -- 3.5 Channel Implementation -- 4 Transactions -- 5 Design and Implementation -- 5.1 Multichannel Strategies -- 5.2 Design Challenges -- 5.3 Multichannel Implementation Issues -- 6 Conclusions -- References -- Things, References, Connectors, Types, Variables, Relations and Attributes - A Contribution to the FI and MU Theories -- Abstract -- 1 Introduction -- 2 Problems Identified in FI and MU Theories -- 3 The Building Blocks to Model the World -- 3.1 Things -- 3.2 References -- 3.3 Connectors -- 3.4 Types -- 3.4.1 What Types Should Not Be -- 3.4.2 What Types Should Be -- 3.5 Variables -- 3.6 Relations -- 3.7 Attributes -- 4 Conclusion -- 5 Future Work -- Acknowledgement -- References -- Author Index.

---

## Sommario/riassunto

This book constitutes the proceedings of the 6th Enterprise Engineering Working Conference (EEWC), held in Funchal, Madeira Island, Portugal, on May 30 - June 3, 2016. EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world. The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions, focusing on the design and engineering of enterprises. The goal of EEWC is to stimulate interaction between the different stakeholders, scientists as well as practitioners, interested in making Enterprise Engineering a reality. The 12 full papers presented were carefully reviewed and selected out of 34 submissions. The topics of the presented papers allowed for active participation in interesting discussions and exchange of ideas and stimulated future cooperation among the participants. This made EEWC a real working conference contributing to the further development of Enterprise Engineering as a mature discipline. Topics covered include: Organization Implementation; Value and Co-Creation; Evolvability; Modelling, Patterns and Viability; and Foundations of Enterprise Engineering. .

---