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# Advances in Enterprise Engineering XIII

9th Enterprise Engineering Working Conference, EEWC 2019  
Lisbon, Portugal, May 20–24, 2019  
Revised Papers

 Springer

# Advances In Enterprise Engineering I Advances In Enterprise Engineering I

**David Aveiro, Giancarlo  
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Proper**

## **Advances In Enterprise Engineering I Advances In Enterprise Engineering I:**

**Advances in Enterprise Engineering VI** Antonia Albani, David Aveiro, Joseph Barjis, 2012-05-02 This book constitutes the proceedings of the Second Enterprise Engineering Working Conference EEWC held in Delft The Netherlands during May 7 8 2012 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 eight papers presented were carefully reviewed and selected for inclusion in the book EEWC 2012 had 20 submissions and accepted eight for publication 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 foundations of enterprise engineering enterprise control flexibility and governance and specifying value

*Advances in Enterprise Engineering IX* David Aveiro, Robert Pergl, Michal Valenta, 2015-06-02 This book constitutes the proceedings of the 5th Enterprise Engineering Working Conference EEWC 2015 held in Prague Czech Republic during May 15 19 2015 EEWC aims at addressing the challenges that modern and complex enterprises face 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 10 papers included in this book were presented at EEWC after being carefully reviewed and selected out of 29 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 enterprise engineering and DEMO business process management simulation and analysis and complexity transformation and modeling

**Advances in Enterprise Engineering XII** David Aveiro, Giancarlo Guizzardi, Sérgio Guerreiro, Wided Guédria, 2018-12-31 This book constitutes the proceedings of the 8th Enterprise Engineering Working Conference EEWC 2018 held in Luxembourg Luxembourg in May June 2018 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 9 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 24 submissions They were organized in topical sections

named on architecture on security and blockchain on DEMO and on teaching      **Advances in Enterprise Engineering VII** Henderik A. Proper, David Aveiro, Khaled Gaaloul, 2013-11-18 This book constitutes the proceedings of the Third Enterprise Engineering Working Conference EEWC held in Luxembourg during May 13 14 2013 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 eight papers presented at the conference were carefully reviewed and selected for inclusion in the book EEWC 2013 had 24 submissions and accepted eight for publication 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 The topics covered include value orientation enterprise change and engineering requirements and entropy issues      **Advances in Enterprise Engineering XIII** David Aveiro, Giancarlo Guizzardi, José Borbinha, 2020-01-04 This book constitutes the proceedings of the 9th Enterprise Engineering Working Conference EEWC 2019 held in Lisbon Portugal May 2019 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 8 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 22 submissions They were organized in topical sections on processes DEMO models and enterprise architecture and blockchain      **Advances in Enterprise Engineering XI** David Aveiro, Robert Pergl, Giancarlo Guizzardi, João Paulo Almeida, Rodrigo Magalhães, Hans Lekkerkerk, 2017-04-18 This book constitutes the proceedings of the 7th Enterprise Engineering Working Conference EEWC 2017 held in Antwerp Belgium in May 2017 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 and 4 short papers presented in this volume were carefully reviewed and selected from 40 submissions They were organized in topical sections named formalisms standards and laws business processes normalized systems and evolvability ontologies and organization design      *Advances in Enterprise Engineering VIII* David Aveiro, José Tribolet, Duarte Gouveia, 2014-04-11 This book constitutes the proceedings of the 4th Enterprise Engineering Working Conference EEWC held in Funchal Madeira Island

Portugal during May 5-8 2014 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 13 papers presented were carefully reviewed and selected for inclusion in the book *EEWC 2014*. 42 submissions were accepted, 13 for publication. 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 enterprise engineering in general, the DEMO methodology, the REA ontology, financial applications, business processes, management and enterprise simulation.

*Advances in Enterprise Engineering I* Jan Dietz, Antonia Albani, 2008-06-10. The expectation for the future of the 21st century enterprise is complexity and agility. In this digital age, business processes are scattered not only throughout the labyrinth of their own enterprises but also across different enterprises and even beyond the national boundaries. An evidence of this is the growing phenomenon of business process outsourcing. Increasing competition, higher customer demands and emerging technologies require swift adaptation to the changes. To understand design and engineer a modern enterprise or an enterprise network and its interwoven business processes, an engineering and systematic approach based on sound and rigorous theories and methodologies is necessary. Along with that, a paradigm shift seems to be needed for addressing these issues adequately. An appealing candidate is to look at an enterprise and its business processes as a social system. In its social setting, an enterprise and its business processes represent actors with certain authorities and assigned roles who assume certain responsibilities in order to provide a service to its environment. The need for this paradigm shift along with the complexity and agility of modern enterprises gives inspiration for the emerging discipline of Enterprise Engineering. For the study of this socio-technical phenomenon, the prominent tools of Modeling and Simulation play a significant role. Both conceptual modeling and simulation are widely used for understanding, analyzing and engineering an enterprise, its organization and business processes.

**Advances in Enterprise Engineering X** David Aveiro, Robert Pergl, Duarte Gouveia, 2016-05-21. 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 Advances in Enterprise Engineering V Antonia Albani, Jan Dietz, Jan Verelst, 2011-05-04 This book constitutes the proceedings of the first Enterprise Engineering Working Conference EEWC held in Antwerp Belgium May 16 17 2011 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 the 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 8 papers presented were carefully reviewed and selected for inclusion in the book EEWC 2011 had 24 submissions of which 8 were accepted for publication The topics of the papers encouraged active participation in interesting discussions and the 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 The topics covered include designing organizations with DEMO combining DEMO with other methods and studies in enterprise architecture

*Advances in Enterprise Engineering XVI* Cristine Griffo, Sérgio Guerreiro, Maria E. Iacob, 2023-05-26 This book constitutes the refereed proceedings of the 12th Enterprise Engineering Working Conference on Advances in Enterprise Engineering XVI EEWC 2022 held in Leusden The Netherlands November 2 3 2022 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 4 full papers and 2 short papers included in this book were carefully reviewed and selected from 13 submissions In addition there are 2 invited papers from keynote presentations They were organized in topical sections as follows Invited Papers from Keynote Presentations and Presented Papers Advances in Enterprise Engineering II Erik Proper, Frank Harmsen, Jan Dietz, 2009-06-08 the virtually unlimited possibilities of modern information and communication technology Future enterprises will therefore have to operate in an ever more dynamic and global environment They need to be more agile more adaptive and more transparent In addition they will be held more publicly accountable for every effect they produce These challenges are traditionally addressed by black box thinking based knowledge i.e. knowledge concerning the function and the behavior of enterprises as contained in the organizational sciences Such knowledge is sufficient and perfectly adequate for managing an enterprise within the range of control However it is definitely inadequate for changing an enterprise In order to bring about changes white box based knowledge is needed i.e.

knowledge concerning the construction and the operation of enterprises Developing and applying such knowledge requires no less than a paradigm shift in our thi ng about enterprises since the organizational sciences are dominantly oriented toward organizational behavior based on black box thinking

**Advances in Enterprise Engineering XV** David Aveiro,Henderik A. Proper,Sérgio Guerreiro,Marne de Vries,2022-07-16 This book constitutes the proceedings of the 11th Enterprise Engineering Working Conference EEWC 2021 which was held online on November 12 2021 and December 16 17 2021 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 5 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 16 submissions The volume also contains 2 keynote papers

*Advances in Enterprise Engineering XIV* David Aveiro,Giancarlo Guizzardi,Robert Pergl,Henderik A. Proper,2021-04-13 This book constitutes the proceedings of the 10th Enterprise Engineering Working Conference EEWC 2020 which was planned to take place in Bozen Bolzano Italy and had to change to an online event due to the COVID 19 pandemic The online event took place on September 28 2020 October 19 2020 and November 9 10 2020 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 8 full papers and 2 short papers presented in this volume were carefully reviewed and selected from 23 submissions The volume also contains 3 keynote papers in full paper length The papers were organized in topical sections as follows formal approaches and modeling the DEMO modeling language and enterprise engineering practice

**Advances in Enterprise Engineering IV** Antonia Albani,Jan Dietz,2010-05-30 This book constitutes the proceedings of the 6th International Workshop on Cooperation and Interoperability Architecture and Ontology CIAO 2010 held at the DESRIST 2010 conference in St Gallen Switzerland on June 4 2010 The 6 papers included in the book were carefully reviewed and selected from 13 submissions The topics covered are Enterprise Ontology Organizational Modeling and System Development

**Advances in Enterprise Engineering XIV** David Aveiro,Giancarlo Guizzardi,Robert Pergl,Henderik A. Proper,2021 This book constitutes the proceedings of the 10th Enterprise Engineering Working Conference EEWC 2020 which was planned to take place in Bozen Bolzano Italy and had to change to an online event due to the COVID 19 pandemic The online event took place on September 28 2020 October 19 2020 and November 9 10 2020 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 8 full papers and 2 short papers presented in this volume were carefully reviewed and selected from 23 submissions. The volume also contains 3 keynote papers in full paper length. The papers were organized in topical sections as follows: formal approaches and modeling the DEMO modeling language and enterprise engineering practice. **Advances in Enterprise Engineering V** Antonia Albani, Jan L G Dietz, Jan Verelst, 2011-05-26

**Advances in Enterprise Engineering XVII** Monika Malinova Mandelburger, Sérgio Guerreiro, Cristine Griffo, David Aveiro, Henderik A. Proper, Marianne Schnellmann, 2024-05-02. This book constitutes the refereed proceedings of the 13th Enterprise Design and Engineering Working Conference on Advances in Enterprise Engineering XVII EDEWC 2023 held in Vienna, Austria, during November 27-28, 2023. Enterprise design and engineering aims to take an integrative and engineering-oriented perspective to enterprise development management. As such, it considers enterprises as purposefully designed systems where all relevant aspects should be designed in coherence. The new scope of EDEWC reflects the rapid increase in digitization of enterprises in the last decade. This has resulted in a substantial change in the nature and structure of enterprises, which was the main focus of EDEWC 2023. The 5 full papers and 2 short papers included in this book were carefully reviewed and selected from 15 submissions. **Advances in enterprise engineering**, *Advances in Enterprise Engineering III* Antonia Albani, Jan Dietz, 2009-06-04. In the era of continuous changes in internal organizational settings and external business environments, such as new regulations and business opportunities, modern enterprises are subject to extensive research and study. For the understanding, design, and engineering of modern enterprises and their complex business processes, the discipline of enterprise engineering requires sound engineering principles and systematic approaches based on rigorous theories. Along with that, a paradigm shift seems to be needed for addressing these issues adequately. The main paradigm shift is the consideration of an enterprise and its business processes as a social system. In its social setting, an enterprise and its business processes represent actors with certain authorities and assigned roles who assume certain responsibilities in order to provide a service to its environment. Second, to that, a paradigm shift is to look at an enterprise as an artifact purposefully designed for a certain mission and goal. The need for this paradigm shift, along with the complexity and agility of modern enterprises, gives inspiration for the emerging discipline of enterprise engineering that requires development of new theories and methodologies. To this end, the prominent methods and tools of modeling and simulation play a significant role. Both conceptual modeling and simulation are widely used for understanding, analyzing, and engineering an enterprise, its organization, and business processes.



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