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IFIP's mission is to be the leading, truly international, apolitical organization which encourages and assists in the development, exploitation and application of information technology for the benefit of all people.

IFIP is a non-profitmaking organization, run almost solely by 2500 volunteers. It operates through a number of technical committees, which organize events and publications. IFIP's events range from an international congress to local seminars, but the most important are:

- The IFIP World Computer Congress, held every second year;
- Open conferences;
- Working conferences.

The flagship event is the IFIP World Computer Congress, at which both invited and contributed papers are presented. Contributed papers are rigorously refereed and the rejection rate is high.

As with the Congress, participation in the open conferences is open to all and papers may be invited or submitted. Again, submitted papers are stringently refereed.

The working conferences are structured differently. They are usually run by a working group and attendance is small and by invitation only. Their purpose is to create an atmosphere conducive to innovation and development. Refereeing is less rigorous and papers are subjected to extensive group discussion.

Publications arising from IFIP events vary. The papers presented at the IFIP World Computer Congress and at open conferences are published as conference proceedings, while the results of the working conferences are often published as collections of selected and edited papers.

Any national society whose primary activity is in information may apply to become a full member of IFIP, although full membership is restricted to one society per country. Full members are entitled to vote at the annual General Assembly, National societies preferring a less committed involvement may apply for associate or corresponding membership. Associate members enjoy the same benefits as full members, but without voting rights. Corresponding members are not represented in IFIP bodies. Affiliated membership is open to non-national societies, and individual and honorary membership schemes are also offered.

Luis M. Camarinha-Matos Xavier Boucher
Hamideh Afsarmanesh (Eds.)

Collaborative Networks for a Sustainable World

11th IFIP WG 5.5 Working Conference
on Virtual Enterprises, PRO-VE 2010
St. Etienne, France, October 11-13, 2010
Proceedings

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Library of Congress Control Number: 2010934859

CR Subject Classification (1998): H.5.3, C.2, H.4, J.1, D.2, H.5

ISSN 1868-4238
ISBN-10 3-642-15960-5 Springer Berlin Heidelberg New York
ISBN-13 978-3-642-15960-2 Springer Berlin Heidelberg New York

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Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper 219/3180

Preface

Collaborative Networks for a Sustainable World

Aiming to reach a sustainable world calls for a wider collaboration among multiple stakeholders from different origins, as the changes needed for sustainability exceed the capacity and capability of any individual actor. In recent years there has been a growing awareness both in the political sphere and in civil society including the business sectors, on the importance of sustainability. Therefore, this is an important and timely research issue, not only in terms of systems design but also as an effort to borrow and integrate contributions from different disciplines when designing and/or governing those systems. The discipline of collaborative networks especially, which has already emerged in many application sectors, shall play a key role in the implementation of effective sustainability strategies.

PRO-VE 2010 focused on sharing knowledge and experiences as well as identifying directions for further research and development in this area. The conference addressed models, infrastructures, support tools, and governance principles developed for collaborative networks, as important resources to support multi-stakeholder sustainable developments. Furthermore, the challenges of this theme open new research directions for CNs.

PRO-VE 2010 held in St. Etienne, France, was the 11th event in a series of successful conferences, including PRO-VE 1999 (held in Porto, Portugal), PRO-VE 2000 (Florianopolis, Brazil), PRO-VE 2002 (Sesimbra, Portugal), PRO-VE 2003 (Lugano, Switzerland), PRO-VE 2004 (Toulouse, France), PRO-VE 2005 (Valencia, Spain), PRO-VE 2006 (Helsinki, Finland), PRO-VE 2007 (Guimarães, Portugal), PRO-VE 2008 (Poznan, Poland), and PRO-VE 2009 (Thessaloniki, Greece).

This book includes a number of selected papers from the PRO-VE 2010 Conference, providing a comprehensive overview of recent advances in various CN domains and their applications with a particular focus on sustainability issues. With this focus, this edition of the conference emphasized CN topics related to carbon-efficient value networks, active aging, management in humanitarian organizations, collaborative health networks, environment management, etc., but also including other important technical and scientific challenges in areas such as innovation networks, networking structures and consortia formation, competencies and trust management, service-orientation, collaborative process models, performance evaluation, collaborative work environments, virtual communities, inter-organizational information systems and interoperability, and game theory, among others.

Similar to previous editions of PRO-VE, the book itself is the result of cooperative and highly distributed work among the authors of the articles and the International Program Committee members who took part in paper evaluations. It therefore represents a valuable tool for those interested in innovation, emerging applications, research advances, and future challenges for R&D in collaborative networks. We would like to thank all the authors both from academia/research and industry for their contributions. We appreciate the dedication of the PRO-VE Program Committee members who helped with the selection of articles and contributed with their valuable comments to assisting authors in improving the quality of their work.

July 2010

Luis M. Camarinha-Matos
Xavier Boucher
Hamideh Afsarmanesh



**PRO-VE 2010 – 11th IFIP Working
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Table of Contents

1. Introduction

The Role of Collaborative Networks in Sustainability	1
<i>Luis M. Camarinha-Matos, Hamideh Afsarmanesh, and Xavier Boucher</i>	

2. Sustainability Cases – I

Towards an Environmental Management Approach for Collaborative Networks	17
<i>Ovidiu Noran</i>	
Green Virtual Enterprises and Their Breeding Environments	25
<i>David Romero and Arturo Molina</i>	
Collaborative Networks for Biodiversity Domain Organizations	36
<i>Ekaterina Ermilova and Hamideh Afsarmanesh</i>	
Active Ageing Roadmap – A Collaborative Networks Contribution to Demographic Sustainability	46
<i>Luis M. Camarinha-Matos and Hamideh Afsarmanesh</i>	

3. Sustainability Cases – II

ePAL Vision 2020 for Active Ageing of Senior Professionals	60
<i>Hamideh Afsarmanesh and Simon S. Msanjila</i>	
A Network of Complementary SMEs for a Global Infrastructure for Services: The Example of Environmental Urban Services	73
<i>Alan Lelah, Fabrice Mathieu, Daniel Brissaud, and Lucien Vincent</i>	
A Framework for Maintaining Socio-technical Balance during the Evolution of Complex Systems	81
<i>Igor Hawryszkiewycz</i>	
Adoption and Diffusion of m-Government: Challenges and Future Directions for Research	88
<i>Ahmed Al-Hadidi and Yacine Rezgui</i>	

4. Innovation Networks

Support for Innovation Processes in Collaborative Networks	95
<i>Heiko Duin, Manuel Fradinho, Marcus Seifert, and Klaus-Dieter Thoben</i>	
The Role of Collaborative Networks in Business Model Innovation	103
<i>Joseba Arana and Eduardo Castellano</i>	
Stakeholder Analysis of a Platform and Ecosystem for Open Innovation in SMEs	110
<i>Jan Zibuschka, Uwe Laufs, and Wolf Engelbach</i>	

5. Carbon Efficient Value Networks

Linking Carbon Performance and Effectiveness of Supply Chains	117
<i>Anicia Jaegler and Patrick Burlat</i>	
Methodology for Carbon Footprint in Forestry Findings and Ways of Improvement	125
<i>Gabriel Chauvet, Jean-Luc Paris, Olivier Devise, and André Charles</i>	
How IS Contribute to the Development of a Sustainable Procurement Policy	133
<i>Oihab Allal-Chérif</i>	
Promoting Sustainability Awareness through Energy Engaged Virtual Communities of Construction Stakeholders	142
<i>Yacine Rezgui, Ian E. Wilson, and Haijiang Li</i>	

6. Management of CNs in Humanitarian Organizations – I

Conceptualising Inventory Prepositioning in the Humanitarian Sector ...	149
<i>Delia Richardson, Sander de Leeuw, and Iris F.A. Vis</i>	
Collaboration Networks Involving Humanitarian Organisations – Particular Problems for a Particular Sector	157
<i>Aurélie Charles, Matthieu Luras, and Rolando Tomasini</i>	
What Really Matters in Locating Shared Humanitarian Stockpiles: Evidence from the WASH Cluster	166
<i>Sander de Leeuw, Laura Rock Kopczak, and Martijn Blansjaar</i>	

7. Management of CNs in Humanitarian Organizations – II

A Mediation Information System to Help to Coordinate the Response to a Crisis	173
<i>Sébastien Truptil, Frédéric Bénaben, and Hervé Pingaud</i>	
Towards a Reference Mission Map for Performance Measurement in Humanitarian Supply Chains	181
<i>Sander de Leeuw</i>	
Towards a Performance Measurement System to Control Disaster Response	189
<i>Carine Rongier, Didier Gourc, Matthieu Lauras, and François Galasso</i>	

8. Collaborative Networks Implementations

A Structured Approach for Implementing Virtual Organization Breeding Environments in the Mold and Die Sector – A Brazilian Case Study	197
<i>Fabiano Baldo and Ricardo J. Rabelo</i>	
An Innovative Framework Supporting SME Networks for Complex Product Manufacturing	204
<i>Luis Maia Carneiro, Ricardo Almeida, Américo Lopes Azevedo, Timo Kankaanpaa, and A.H.M. Shamsuzzoha</i>	
The Implications of the 4 C's of Supply Chain Network Interaction Strategies for Cost Information Visibility and Network Profitability – An Integrative Model	212
<i>Jyotirmoyee Bhattacharjya, David Walters, and Charlotte Newton</i>	

Idioms for Collaborative Government Networks – Conceptualization and Applications to Seamless Services	219
<i>Elsa Estevez, Adegboyega Ojo, and Tomasz Janowski</i>	

9. Collaborative Health Networks

A System Architecture Supporting the Agile Coordination of Homecare Services	227
<i>Elyes Lamine, Sabrina Zefouni, Rémi Bastide, and Hervé Pingaud</i>	
Care Network Coordination for Chemotherapy at Home: A Case Study	235
<i>Tian Zhang, Eric Marcon, and Maria Di Mascolo</i>	

Strategic and Tactical Hospital Bed Management in Belgium and in France	243
<i>D. Gossart, N. Meskens, and A. Guinet</i>	

From Clinical Practice Guideline to Clinical Pathway –Issues of Reference Model-Based Approach	251
<i>Hannes Schlieter and Werner Esswein</i>	

10. Networking Structures

Implementing Self-organising Virtual Enterprises Using Social Behaviour Nets	259
<i>Ping Jiang, Quentin Mair, and Mingwei Yuan</i>	

Network Structures in the International Clothing Industry	267
<i>B.L. MacCarthy and P.G.S.A. Jayarathne</i>	

Discerning Industrial Networks, Clusters and Competences – An Alternative View Using Web Mining Techniques	279
<i>John R. Williams and Dimitris Assimakopoulos</i>	

11. Partners Selection and VO Creation – I

A Multi-layer Framework for Virtual Organizations Creation in Breeding Environment	287
<i>Khouloud Boukadi, Lucien Vincent, and Chirine Ghedira</i>	

Autonomic Approach to Planning and Scheduling in Networked Small Factories	297
<i>Flavio Bonfatti, Luca Martinelli, and Paola Daniela Monari</i>	

An Approach to Select Suppliers for Sustainable Collaborative Networks	304
<i>María José Verdecho, Juan José Alfaro-Saiz, and Raúl Rodríguez-Rodríguez</i>	

12. Partners Selection and VO Creation – II

Evaluating How Potential Pool of Partners Can Join Together in Different Types of Long Term Collaborative Networked Organizations	312
<i>Andrea Cardoni, Stefano Saetta, and Lorenzo Tiacci</i>	

Creation of Dynamic Virtual Organizations for Child Abuse Prevention in the VO Breeding Environment Context	322
<i>Pedro Sanz Angulo and Juan José de Benito Martín</i>	

<i>MAPSS, a Multi-Aspect Partner and Service Selection Method</i>	329
<i>Zbigniew Paszkiewicz and Willy Picard</i>	

13. Modeling and Managing Competencies – I

<i>Managing the Competencies of Team Members in Design Projects Through Multi-period Task Assignment</i>	338
<i>Onanong Hlaoittinun, Eric Bonjour, and Maryvonne Dulmet</i>	
<i>Aided Virtual Team Building System: Zooming in on Web 2.0 Tools and Competence Management</i>	346
<i>Marinita Schumacher, Marc Diviné, Julie Stal-Le Cardinal, and Jean-Claude Bocquet</i>	
<i>A New Approach to Competence-Based Business Partner Profiles for Collaborative Business Process Management</i>	356
<i>Thomas Schuster and Peter Weiß</i>	
<i>Pattern-Based Competence Management: On the Gap between Intentions and Reality</i>	364
<i>Ralf Klamma and Zinayida Petrushyna</i>	

14. Modeling and Managing Competencies – II

<i>Reasoning about Skills and Competencies</i>	372
<i>Maryam Fazel-Zarandi and Mark S. Fox</i>	
<i>A Competence-Based Collaborative Network: The West Midlands Collaborative Commerce Marketplace</i>	380
<i>Yen Cheung, Helana Scheepers, Mark Swift, Vincent Lee, and Jay Bal</i>	
<i>UNICOMP: Identification of Enterprise Competencies to Build Collaborative Networks</i>	388
<i>Kafil Hajlaoui, Xavier Boucher, and Omar Boussaid</i>	
<i>The Role of Organizational Competences in the Evolution of Business Models</i>	396
<i>Matheus Pinotti Moreira, Sophie D'Amours, Robert Beauregard, and Riadh Azouzi</i>	

15. Trust and Information

<i>The Variable Nature of Trust in Sustainable Collaborative Ventures</i>	404
<i>Ronald C. Beckett and Michael Jones</i>	

Informedness in Collaborative Networks through Active Information Provisioning	412
--	-----

Heiko Thimm and Karsten Boye Rasmussen

Integration of Business and Industrial Knowledge on Services to Set Trusted Business Communities of Organisations	420
---	-----

Frédérique Biennier, Régis Aubry, and Mathieu Maranzana

16. Service Orientation in Collaborative Networks – I

Social Service Brokerage Based on UDDI and Social Requirements	427
--	-----

Jan Świerzowicz and Willy Picard

Conceptual Design of Service Procurement for Collaborative Service Networks	435
---	-----

Maik Herfurth and Peter Weiß

Applying e-Service Model in Assessment and Comparison of Services ...	443
---	-----

Egidijus Ostasius and Zivile Petraviciute

Pro-Active Service Entity Framework for a Better Mapping between Business and Software	451
--	-----

Tiago Cardoso and Luis M. Camarinha-Matos

17. Service Orientation in Collaborative Networks – II

Engineering of Service Oriented Collaborative Network	461
---	-----

Nesrine Elhabib, Xavier Boucher, and Sophie Peillon

Towards a Reference Architecture for a Collaborative Intelligent Transport System Infrastructure	469
--	-----

A. Luis Osório, Hamideh Afsarmanesh, and Luis M. Camarinha-Matos

Using Event B to Specify QoS in ODP Enterprise Language	478
---	-----

Hafid Belhaj, Youssef Balouki, Mohamed Bouhdadi, and Said El Hajji

Towards a Modeling Framework for Service-Oriented Digital Ecosystems	486
--	-----

Rubén Darío Franco, Angel Ortiz, Pedro Gómez-Gasquet, and Rosa Navarro Varela

18. Collaboration Process Models

Application of the EKD Process Model to Support the Coordination of Collaborative Networks in the Civil Construction Sector	494
---	-----

Flávia Vancim Frachone Neves and Fábio Müller Guerrini

Lightweight Process Modeling for Virtual Enterprise Process Collaboration	501
<i>Lai Xu, Paul de Vrieze, Keith Phalp, Sheridan Jeary, and Peng Liang</i>	

Integration of the Supplier Capacity for Choosing the Less Risky Schedule within an Uncertain Environment	509
<i>Romain Guillaume, Caroline Thierry, and Bernard Grabot</i>	

19. Performance and Value – I

The Impact of Inter-organizational Social Capital in Collaborative Networks Competitiveness: An Empirical Analysis	517
<i>Janaina Macke, Rolando Vargas Vallejos, Kadígia Faccin, and Denise Genari</i>	

Measuring and Evaluating Communication Intensities in Collaborative Networks	527
<i>Jens Eschenbächer, Novica Zarvić, Oliver Thomas, and Klaus-Dieter Thoben</i>	

Generic Mechanisms for Coordinating Operations and Sharing Financial Benefits in Collaborative Logistics	537
<i>Jean-François Audy, Sophie D'Amours, Nadia Lehoux, and Mikael Rönnqvist</i>	

20. Performance and Value – II

Managing Performance to Align the Participants of Collaborative Networks: Case Studies Results	545
<i>Roberto da Piedade Francisco, Américo Azevedo, and João Bastos</i>	

Collaborative Assessment of Potential Value Generation in Development Projects	553
<i>Ingo Westphal, Jens Eschenbächer, and Donatella Vedovato</i>	

A Collaborative Decision Support Method to Design Performance Evaluation Systems in CNOs	561
<i>Rui Pinto Ferreira and António Lucas Soares</i>	

21. Collaborative Work Environments

A Privacy Enhancing Architecture for Collaborative Working Environments	569
<i>Jasone Astorga, Purificacion Saiz, Eduardo Jacob, and Jon Matias</i>	

XVIII Table of Contents

Collaborative Design System for Supporting Dynamic Virtual Enterprises	577
<i>Michele Germani, Marco Mandolini, Maura Mengoni, and Margherita Peruzzini</i>	

Towards Controlling the Acceptance Factors for a Collaborative Platform in Engineering Design	585
<i>Ardavan Dargahi, Franck Pourroy, and Frédéric Wurtz</i>	

22. Learning and Collaboration

Learning Collaboration Moderator Services: Supporting Knowledge Based Collaboration	593
<i>A.K. Choudhary, J.A. Harding, R. Swarnkar, B.P. Das, and R.I. Young</i>	

A High Level Architecture for Personalized Learning in Collaborative Networks	601
<i>Hamideh Afsarmanesh and Jafar Tanha</i>	

Non-hierarchical Collaboration in Dynamic Business Communities	609
<i>A.H.M. Shamsuzzoha, Timo Kankaanpaa, Petri Helo, Luis Maia Carneiro, Ricardo Almeida, and Rosanna Fornasiero</i>	

23. Virtual Communities and Teams

Knowledge Representation in Virtual Teams: A Perspective Approach for Synthetic Worlds	619
<i>Giacomo Fiumara, Dario Maggiorini, Alessandro Provetti, and Laura A. Ripamonti</i>	

Eigenvector Centrality Based on Shared Research Topics in a Scientific Community	626
<i>Antonio P. Volpentesta and Alberto M. Felicetti</i>	

Security Awareness in Virtual Communities: The Case of Non-collocated Academic Research Collaborations	634
<i>Adam Marks and Yacine Rezgui</i>	

24. Inter-Organisational Information Systems for CNs – I

Inter-Organizational Information System Architecture: A Service-Oriented Approach	642
<i>Mohammad Kazem Haki and Maia Wentland Forte</i>	

Factors Affecting RFId Adoption in a Vertical Supply Chain: The Case of the Silk Industry in Italy	653
<i>Cristina Quetti and Federico Pigni</i>	
Value Creation in Collaborative Networks: The Case of RFID Implementation	664
<i>Carine Dominguez, Blandine Ageron, and Gilles Neubert</i>	
25. Inter-Organisational Information Systems for CNs – II	
Supporting Software Services' Trustworthiness in Collaborative Networks	672
<i>Maiara Heil Cancian, Ricardo J. Rabelo, and Christiane Gresse von Wangenheim</i>	
Supporting Software Services Discovery and Sharing in Collaborative Networks	685
<i>Alexandre Perin-Souza and Ricardo J. Rabelo</i>	
Methodology for Prior Evaluation of Interoperability	697
<i>Mamadou Camara, Yves Ducq, and Remy Dupas</i>	
26. Semantic Interoperability for VO – I	
Semantic Reconciliation in Interoperability Management through Model-Driven Approach	705
<i>Frédéric Bénaben, Nicolas Boissel-Dallier, Jean-Pierre Lorré, and Hervé Pingaud</i>	
Security, Privacy and Interoperability in Heterogeneous Systems	713
<i>Jian Zhong, Peter Bertok, and Zahir Tari</i>	
From BPMN 2.0 to the Setting-Up on an ESB – Application to an Interoperability Problem	722
<i>Y. Lemrabet, D. Clin, M. Bigand, and J.-P. Bourey</i>	
27. Semantic Interoperability for VO – II	
Use of Ontology for Solving Interoperability Problems between Enterprises	730
<i>Hui Liu, Anne-Françoise Cutting-Decelle, and Jean-Pierre Bourey</i>	
Building an Informal Ontology to Support Collaborative Network Operation: A Case Study	738
<i>Carla Pereira, Cristóvão Sousa, and António Lucas Soares</i>	

Towards Business Ontologies Matching for Inter-Enterprise Collaboration Platform in a Lean Manufacturing Strategy.....	746
<i>Ahlem Zayati, Lilia Sidhom, Youakim Badr, Frédérique Biennier, and Mohamed Moalla</i>	

28. Game Theory for CN

An Educational Game in Collaborative Logistics	755
<i>Sophie D'Amours and Mikael Rönnqvist</i>	
Extending Networks of Collaboration to Multi-market Oligopolies	765
<i>Pascal Billard, Christophe Bravard, Subhadip Chakrabarti, and Sudipta Sarangi</i>	
The Application of Incentive Mechanisms for the Participation of Enterprises in Collaborative Networks from an Economic Perspective ...	773
<i>Hendrik Jähn</i>	
Author Index	781