

Monday: 17 Sep 2018

08:00 Registration

09:00 Opening session

09:30 Plenary Talk:

Chair: Luis Camarinha-Matos

The Relevance of Blockchain for Collaborative Networked Organizations

Hans Schaffers

10:30 Coffee break

11:00 Parallel sessions A

A1: Cognitive Systems for Resilience Management

Organizers: Yacine Rezgui, Wanqing Zhao

Optimizing Humanitarian Aids: Formulating Influencer Advertisement in Social Networks

Nastaran Hajiheydari, Masoud Salehi, Arman Goudarzi

Supporting SOA Resilience in Virtual Enterprises

Roque O. Bezerra, Ricardo J. Rabelo and Maiara H. Cancian

Formalization and Evaluation of Non-functional Requirements: Application to Resilience

Behrang Moradi, Nicolas Daclin, Vincent Chapurlat

Nurturing Virtual Collaborative Networks into Urban Resilience for Seismic Hazards Mitigation

Giulia Cerè, Wanqing Zhao, and Yacine Rezgui

A2: Collaboration Platform Issues

Chair: A. Luis Osorio

Using Chatbots to Assist Communication in Collaborative Networks

Christian Frommert, Anna Häfner, Julia Friedrich and Christian Zinke

Exploring the CIMO-logic in the Design of Collaborative Networks Mediated by Digital Platforms

Eric Costa, António Lucas Soares and Jorge Pinho de Sousa

Development of a Collaborative Platform for Closed Loop Production Control

Ben Luetkehoff, Matthias Blum and Moritz Schroeter

Reducing Information Load to Enhance Collaborative Awareness Thanks to a Pre-selection of Information

Audrey Fertier, Aurelie Montarnal, Anne-Marie Barthe-Delanoë, Sebastien Truptil, Frederick Bénaben

13:00 Lunch

14:30 Parallel sessions B

B1: Sensing, Smart and Sustainable Enterprises

Chair: Paula Urze

Sensing, Smart and Sustainable S³ Enterprises: Principles, Goals and Rules

Fábio Müller Guerrini, Thales Botelho de Sousa, Juliana Suemi Yamanari

Open Innovation Laboratory for Rapid Realisation of Sensing, Smart and Sustainable Products: Motives, Concepts and Uses in Higher Education

Arturo Molina, Jhonattan Miranda, Dante Chavarría, Julieta Noguez, Miguel Ramírez, Manuel

E. Macías, Edgar O. López, Martín R. Bustamante, Martín Molina, Pedro Ponce, Daniel Cortés and José Ramírez

In-store Proximity Marketing by Means of IoT Devices

Jarogniew Rykowski, Tomasz Chojnacki, Sergiusz Strykowski

B2: Risk, Privacy and Security

Chair: *Ricardo Rabelo*

Bank Branches as Smart Environments: Introducing a Cognitive Protection System to Manage Security and Safety

Salvatore Ammirato, Francesco Sofo, Alberto Michele Felicetti, Cinzia Raso

A Proposal for Risk Identification Approach in Collaborative Networks Considering Susceptibility to Danger

Jiayao Li, Frédérick Bénaben, Juanqiong Gou, and Wenxin Mu

A Framework to Navigate the Privacy Trade-offs for Human-Centred Manufacturing

Sobah Abbas Petersen, Felix Mannhardt, Manuel Oliveira, Hans Torvatn

B3: Building Information Modeling

Chairs: *Patricia Macedo, Filipa Ferrada*

Innovative Enterprise Architectures for Deploying Product-Service Systems in SME

João Vilas-Boas and João Simões

Integrated Framework to Manage Building's Sustainability Efficiency, Design Features and Building Envelope

Tala Kasim, Haijiang Li, Yacine Rezgui, and Tom Beach

Meta-Standard for Collaborative BIM Standards: An Analysis of UK BIM Level 2 Standards

Mohamed Binesmael, Haijiang Li, and R Lark

16:00 Coffee break

16:30 Parallel sessions C

C1: Dynamic Logistics Networks

Chair: *Paul Grefen*

Control Charts to Support Trust Monitoring in Dynamic Logistics Networks

António Abreu, José Requeijo, J. M. F. Calado, Ana Dias

A New Approach for Supply Chain Management Monitoring Systems Adapted to Crisis

Quentin Schoen, Sébastien Truptil, Matthieu Lauras, Franck Fontanili, Aurélie Conges

An Approach for Surfacing Hidden Intentions and Trustworthiness in Logistics Resource Sharing Networks

Morice Daudi, Klaus-Dieter Thoben, Jannicke Baalsrud Hauge

C2: Collaborative Energy Services in Smart Cities

Organizers: *Gari Fragidis, Martina Occelli*

A Virtual Collaborative Platform to Support Building Information Modeling Implementation for Energy Efficiency

Ioan Petri, Ali Alhamami, Yacine Rezgui, Sylvain Kubicki

Decentralised District Multi-vector Energy Management: A Multi-agent Approach

Joelle Klaimi and Meritxell Vinyals

A Real-Time Energy Management Platform for Multi-vector District Energy Systems

Muhammad Waseem Ahmad, Jonathan Reynolds, Jean-Laurent Hippolyte, Yacine Rezgui,

Michael Nikhil Descamps, Christian Merckx, Jasper van Dessel, Mathieu Lessinnes

C3: Users and Organizations Profiling

Chair: *Volker Stich*

Open Innovation Participants Profiling: An Archetypes Approach

João Rosas, Paula Urze, Alexandra Tenera, Luis M. Camarinha-Matos

Research Investigation on Food Information User's Behaviour

Antonio Palmiro Volpentesta, Alberto Michele Felicetti

Predicting the Relationship Between Virtual Enterprises in an Agile Supply Chain through Structural Equation Modeling

Alan Eardley, Ariunbayar Samdantsoodol, Hongnian Yu, Shaung Cang

18:00 End of technical activities

Tuesday: 18 Sep 2018

09:00 Position session 1: Industry Transformation

Chairs: Hamideh Afsarmanesh, Hans Schaffers

Need and Solution to Transform the Manufacturing

Industry in the Age of Industry 4.0 – A Capability Maturity Index Approach

Volker Stich, Gerhard Gudergan, Violet Zeller

Collaborative Transformation Systems - Path to Address the Challenges Around the Competitiveness of Mature Countries

Americo Azevedo

Open debate

10:30 Coffee break

11:00 Parallel sessions D

I1: Industry Session 1

Leveraging on semantics in collaborative construction projects to share and promote sustainable interventions

Chair.: Sylvain Kubicki (LIST)

D1: Health and Social Welfare Services

Chair: Matthieu Lauras

The Robot Who Loves Me: Building Consciousness Models for Use in Human Robot Interaction Following a Collaborative Systems Approach

Adamantios Koumpis, Maria Christoforaki, Siegfried Handschuh

Services Evolution in Elderly Care Ecosystems

Thais A. Baldissera and Luis M. Camarinha-Matos

Towards a Cognitive Linked Public Service Cloud

Santiago Salem, Adegboyega Ojo, Elsa Estevez, Pablo R. Fillottrani

Cognitive Services for Collaborative mHealth: The OnParkinson Case Study

Patricia Macedo, Rui Neves Madeira, Luis M. Camarinha-Matos

13:00 Lunch

14:30 Parallel sessions E

E1: Collaborative Business Processes

Chairs: Lai Xu, Adamantios Koumpis

The Need for Compliance Verification in Collaborative Business Processes

John Paul Kasse, Lai Xu, Paul deVrieze, Yuewei Bai

Enhancing Robust Execution of BPMN Process Diagrams: A Practical Approach

Hodjat Soleimani Malekan, Mohammad Shafahi, Naser Ayat, Hamideh Afsarmanesh

Complex Collaborative Physical Process Management: A Position on the Trinity of BPM, IoT and DA

Paul Grefen, Heiko Ludwig, Samir Tata, Remco Dijkman, Nathalie Baracaldo, Anna Wilbik, Tim D'Hondt

E2: Information Systems Integration

Chair: Teresa Taurino

On Reliable Collaborative Mobility Services

A. Luis Osório, Luis M. Camarinha-Matos, Hamideh Afsarmanesh, Adam Belloum

A Plug and Play Integration Model for Virtual Enterprises

Juan D. Méndez, Ricardo J. Rabelo, Fabiano Baldo, Maiara H. Cancian

Assessment of IS Integration Efforts to Implement the Internet of Production Reference Architecture

Günther Schuh, Jörg Hoffmann, Martin Bleider, Violet Zeller

E3: Collaborative Business Strategies

Chairs: Antonio Abreu, Alexandra Tenera

Business Impacts of Technology Disruption - A Design Science Approach to Cognitive Systems'
Adoption within Collaborative Networks

Katri Valkokari, Tuija Rantala, Ari Alamäki and Katariina Palomäki

A Modeling Framework to Assess Strategies Alignment based on Collaborative Network Emotions

Beatriz Andres, Filipa Ferrada, Raul Poler, Luis M. Camarinha-Matos

Adaptive Sales & Operations Planning: Innovative Concept for Manufacturing Collaborative
Decisions?

Jean-Baptiste Vidal, Matthieu Lauras, Jacques Lamothe and Romain Miclo

16:00 Coffee break

16:30 Special Session: CNs and UN 2030 Agenda

(part of SOCOLNEt General Assembly – Open to all attendees)

Moderators: Angel Ortiz, António Lucas Soares

How can CNs address some challenges raised by UN 2030 Agenda for Sustainable Development?

Plenary Introduction

6 Parallel Brainstorming Groups

Plenary Summaries

18:45 End of technical activities

19:00 Castle Tours

19:30 Conference Dinner

Wednesday: 19 Sep 2018

09:00 Position session 2: SME Innovation

Chairs: Américo Azevedo, Matthieu Lauras

Promoting SME Innovation through Collaboration and Collective-intelligence Network in SMEs: The PMInnova Program

Agostino Villa, Teresa Taurino, Gianni Piero Perrone, Andrea Villa, Enrico Borgo

Collaborative Networks and the 'Five Regions of the Future'

Andrew Crossley

Open debate

10:30 Coffee break

11:00 Parallel sessions F

I2: Industry Session 2

Low carbon energy transitions in the complex eco-system of urban environments

Chair: Andy Sutton (BRE)

F1: Semantics in Networks of Cognitive Systems

Organizers: Yacine Rezgui, Thomas Beach

Ontology-Based Semantic Modeling for Automated Identification of Damage Mechanisms in Process Plants

Andika Rachman and R.M. Chandima Ratnayake

Cognitive Based Decision Support for Water Management and Catchment Regulation

Ioan Petri, Baris Yuce, Alan Kwan, Yacine Rezgui

Achieving Smart Water Network Management through Semantically Driven Cognitive Systems

Thomas Beach, Shaun Howell, Julia Terlet, Wanqing Zhao, Yacine Rezgui

Collaborative Network for District Energy Operation and Semantic Technologies: A Case Study

Corentin Kuster, Jean-Laurent Hippolyte, Yacine Rezgui

IF: COVE Meeting

(IFIP WG5.5 members only)

13:00 Lunch

14:30 Parallel sessions G

G1: Industry 4.0 Support Frameworks

Chair: Fabio Guerrini

Awareness Towards Industry 4.0: Key Enablers and Applications for Internet of Things and Big Data

Myrna Flores, Doroteja Maklin, Matic Golob, Ahmed Al-Ashaab, Christopher Tucci

A Framework to Support Industry 4.0: Chemical Company Case Study

Daniel Cortés Serrano, Dante Chavarría-Barrientos, Arturo Ortega, Belén Falcón, Leopoldo

Mitre, Rodrigo Correa, Jaime Moreno, Rafael Funes, Arturo Molina Gutiérrez

Collaborative Design of Warehousing 4.0 Using the Concept of Contradictions

Dmitry Kucharavy, David Damand, Marc Barth and Ridha Derrouiche

G2: Cognitive Systems in Agribusiness

Organizers: *Mareva Alemany, Angel Ortiz, Jorge Hernandez, Lynne Butel*

Towards Virtual Biorefineries

Michelle Houngbé, Anne-Marie Barthe-Delanoë, Stéphane Negny

FIWARE Open Source Standard Platform in Smart Farming - A Review

Maria Angeles Rodriguez, Llanos Cuenca, and Angel Ortiz

A Collaborative Model to Improve Farmers' Skill Level by Investments in an Uncertain Context

Ana Estesos, MME Alemany, Ángel Ortiz, and Cecile Guyon

G3: Value Creation in Networks

Chair: *Andrew Crossley*

Chinese Collaborative Software in Digital Transformation Era

Juanqiong Gou, Nan Li, Wenxin Mu, Qinghua Liu and Xiyan Lv

Business Roles in Creating Value from Data in Collaborative Networks

Ari Alamäki, Tuija Rantala, Katri Valkokari, and Katariina Palomäki

Smart Tourism Destinations: Can the Destination Management Organizations Exploit Benefits of the ICTs? Evidences from a Multiple Case Study

Salvatore Ammirato, Alberto Michele Felicetti, Marco Della Gala, Cinzia Raso, Marco Cozza

16:00 Coffee break

16:30 Closing and Awards

17:30 End