

28TH INTERNATIONAL CONFERENCE ON ENGINEERING, TECHNOLOGY AND INNOVATION (ICE/ITMC) &

31ST INTERNATIONAL ASSOCIATION FOR MANAGEMENT OF TECHNOLOGY (IAMOT) JOINT **CONFERENCE ©**



TECHNOLOGY, ENGINEERING, AND INNOVATION MANAGEMENT COMMUNITIES AS ENABLERS FOR SOCIAL-ECOLOGICAL TRANSITIONS

> **JUNE 19-23, 2022 NANCY, FRANCE**

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2022 IEEE 28th International Conference on Engineering, Technology and Innovation (ICE/ITMC) & 31st International Association For Management of Technology (IAMOT) Joint Conference ©

ICE/ITMC is the International Conference on Engineering, Technology, and Innovation. It developed from an early focus on the engineering method of concurrent engineering, to general organization of the engineering process and its organization within the corporation and in networks.

The International Association for Management of Technology (IAMOT) is a non-governmental, non-profit organization incorporated in 1992 in the State of Florida, USA. Its purpose is to encourage high quality research and education in the field of management of technology (MOT).

In 2020 and 2021 successively, these two leading communities on Management of Technology, Engineering and Innovation organized on-line versions of their scientific conferences, showing much-needed adaptability in a pandemic situation.

In 2022, for the first time ever these two communities worked together, aiming to explore new ways for these technology management and innovation communities to interact and come up with innovative solutions to the critical global issues of our time.

This joint event was the place where research, science and industry innovators were invited to contribute original ideas, papers, special sessions, workshops and open initiatives.

The main aim was to explore the role of Management of Technology, Engineering and Innovation aiming to contribute to the Social-Ecological Transitions covering not only product and process but also changes in user practices, markets, policy, regulations, culture, infrastructure, lifestyle and management of firms.

The conference was hosted by the Université de Lorraine in Nancy, France, and organized by the ENSGSI (Engineering School on Innovation Systems) and the ERPI (Research Group on Innovative processes, member of the Energy, Materials, Product, Process – EMPP research department and the Institut Carnot ICEEL and the SIMPEE doctoral School).

For this first edition, 242 papers were submitted, 190 were accepted and 184 were presented. Moreover, 7 European projects (DIY4U, INEDIT, iPRODUCE, OPEN! NEXT, DigiTeRRI, Climate Labs, HyValue) participated to the joint conference and a scientific exhibition was proposed giving the opportunity to experiment technologies and innovations in Living Lab mode at Octroi Nancy (the creative and citizen third place of the city of Nancy, France).

Finally, June 16th – 18th, just before the joint conference, we organized the NITIM 2022 Summer School. The NITIM school facilitate the development of doctoral research in the interdisciplinary field of Networks, Information, Technology and Innovation Management, bringing together PhD candidates and faculty members in a focused, in-depth, and constructive discussion of the candidates' research work.

We are proud that 473 participants of 45 nationalities have registered for the different moments of this program.

Pr. Laure Morel, Dr Laurent Dupont & Pr. Mauricio Camargo General Chairs





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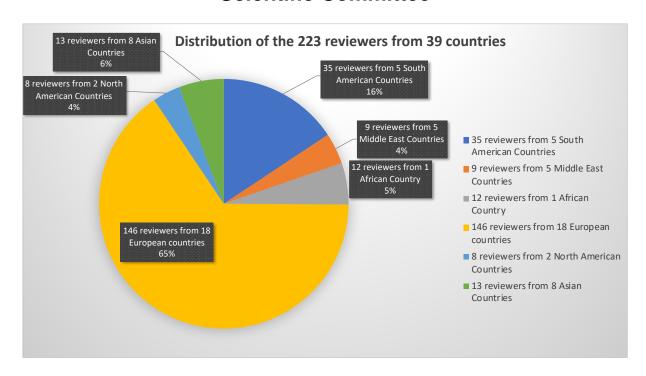
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Main Conference Themes

- R&D, Innovation and Entrepreneurship
- · Corporate Venturing & Digital Entrepreneurship
- Intrapreneurship Strategy and Process
- · Technology Foresight and Forecasting
- Service Design and Engineering
- Industry 4.0: Digital Innovation management and applications of AI
- Responsible research and innovation
- · Innovation on Education and Learning
- Human, Socio-Economic and Culture Issues
- · Green Tech and New business model for Sustainability and Resilience

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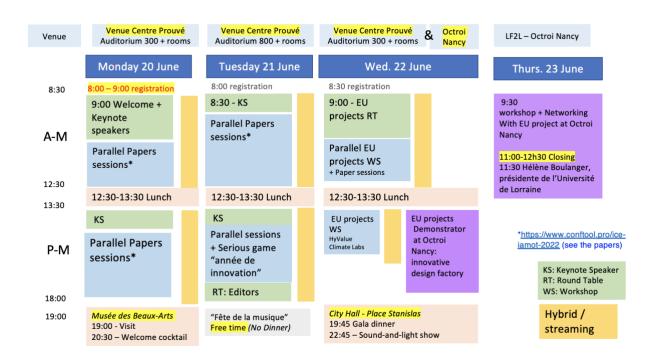
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<u>Jannik Reinhold</u>¹, Christian Koldewey¹, Roman Dumitrescu²

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¹Technische Universität Berlin, Institute for Machine Tools and Factory Management, Germany; ²Without affiliation

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Karen Louise Schmidt¹, Wouter Gideon Bam¹, <u>Philani Nduna Zincume</u>¹, Karolien De Bruyne^{1,2}

¹Stellenbosch University, South Africa; ²KU Leuven, Belgium

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Foreign direct investment and host firms' technology development: The moderating role of overall and STEM education

<u>Jihoon Shin</u>¹, Miguel Amaral², Ana Cristina Barros³, M. Granger Morgan¹

¹Carnegie Mellon University, United States of America; ²Instituto Superior Técnico, Portugal; ³INESC TEC, Portugal

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<u>Tyron Offerman</u>, Robert Blinde, Christoph Johann Stettina, Joost Visser LIACS, Leiden University, Niels Bohrweg 1, 2333 CA Leiden, The Netherlands

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Milena Legarda-López¹, María Luisa Villalba², Walter Ruiz-Castañeda¹

¹Facultad de Minas, Universidad Nacional de Colombia, Medellín, Colombia; ²Facultad de Ciencias Económicas y Administrativas, Universidad Católica de Oriente, Rionegro, Colombia

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Dr. Luke Maki

The Boeing Company, United States of America

Date: Monday, 20/June/2022 Regist. D1: Registration 8:00am Location: Entrance / Registration Desk - Centre Prouvé 9:00am ICE-IAMOT Joint conference at Prouvé Convention Center - 1, place de la République CS 60663 - 54063 NANCY Cedex Venue on the ICE-IAMOT website / How to join us - move in Nancy (google map) Plenary01: Opening & Keynote speakers 1-2 9:00am Location: Auditorium 300 - Centre Prouvé 10:30am Laure MOREL, Mauricio CAMARGO, Laurent DUPONT - Welcome address by the local organizers of the ICE-IAMOT conference Karl TOMBRE - Vice-president for European and International Strategy at Université de Lorraine, Executive director of LUE initiative Keynote speakers: Osman AHMED (Pacific Northwest National Laboratory, USA) - "Digitalization, De-carbonization, and Innovation"- What we need for a Sustainable Planet - see more Dominique JOLLY - China's Rapid Technological Transformation: Good news for Ecological Transition? - see more Remote Link: Auditorium 10:30am **Coffee Break** Location: Foyer 850 (Hall) - Centre Prouvé 11:00am IE6-1: Living-Labs & Open-IE11-3: Sustainability in TEC8: Robotics & 11:00am IE5: Intrapreneurship & Corporate Venturing Innovation & Autonomous Systems / Innovation Location: Room 103 -Entrepreneurship Cyber Physical Systems Location: Room 104 -12:30pm (CPS) Location: Room 105 -Centre Prouvé Centre Prouvé Chair: Fabio Cruz Sanchez, Chair: Laure Morel, University de Centre Prouvé Location: Room 106 -Université de Lorraine, France Lorraine, France Chair: Manon Enjolras, Université Centre Prouvé Remote link: Room 103 on Remote link: Room 104 on de Lorraine - ERPI, France Chair: Klaus-Dieter Thoben. Microsoft Teams Microsoft Teams Remote link: Room 105 on BIBA - Bremer Institut für Produktion & Logistik, Germany Remote link: Room 106 on licrosoft Teams ENG2: Energy Supply and ENG12-1: SCM 4.0 **Energy Utilities** Location: Room 205 -Location: Room 204 -Centre Prouvé Centre Prouvé Chair: Kulwant Pawar, Nottingham University, United Chair: Yacine Rezgui, Cardiff Kinadom University, United Kingdom Remote link: Room 205 on Remote link: Room 204 on Aicrosoft Teams Microsoft Teams 12:30pm Lunch Location: Foyer 850 (Hall) - Centre Prouvé 1:30pm Plenary02: Keynote speaker 3 1:30pm Location: Auditorium 300 - Centre Prouvé 2:30pm Alice de Casanove (Airbus) - Return of experience regarding Innovation management ISO 56000 series: Implementation in a large organization - see more Remote Link: Auditorium IE4-1: Human, Socio-IE6-2: Living-Labs & Open-IE11-1: Sustainability in TEC3-2: Technology on 2:30pm Education and Training Economic and Culture Innovation Innovation & Issues Location: Room 104 -Entrepreneurship Location: Room 202 -4:00pm Location: Room 103 -Location: Room 105 -Centre Prouvé Centre Prouvé Centre Prouvé Chair: Laurent DUPONT, Centre Prouvé Chair: Raphaël BARY, Université de Lorraine, France Université de Lorraine, France Chair: Fedoua KASMI, Université Chair: Brunelle MARCHE, de Lorraine, France Remote link: Room 104 on Université de Lorraine, France Remote link: Room 202 on Remote link: Room 103 on Microsoft Teams Microsoft Teams Remote link: Room 105 on Microsoft Teams ENG4-1: Sustainable ECTP1: Smart Construction ENG12-2: SCM 4.0 Engineering & Built Environment Location: Room 205 -Location: Room 203 -Location: Room 204 -Centre Prouvé Centre Prouvé Chair: Mauricio Camargo, Centre Prouvé University of Lorraine, France Chair: Alain ZARLI, ECTP & R2M Chair: Alaa Hassan Université de Remote link: Room 205 on Lorraine, France Solution, France Remote link: Room 203 on Chair: Sylvain Kubicki, Microsoft Teams Luxembourg Institute of Science and Technology, Luxembourg Remote link: Room 204 on Microsoft Teams 4:00pm **Coffee Break** Location: Foyer 850 (Hall) - Centre Prouvé

4:30pm

4:30pm -

-6:00pm IE4-2: Human, Socio-Economic and Culture Issues

Location: Room 103 Centre Prouvé
Chair: DEYCY JANETH
SANCHEZ PRECIADO, Halmstad
University, Sweden
Remote link: Room 103 on

TEC6: Green Tech
Location: Room 202 Centre Prouvé
Chair: Giovanny ArbelaezGarces, Université de Lorraine,
France

Remote link: Room 202 on Microsoft Teams IE6-3: Living-Labs & Open-Innovation

Location: Room 104 -Centre Prouvé

Chair: **Marc Pallot**, Arts & Metiers ParisTech, France Remote link: Room 104 on

ENG4-2: Sustainable Engineering Location: Room 203 -

Centre Prouvé
Chair: Luke Maki, The Boeing
Company, United States of
America

Remote link: Room 203 on Microsoft Teams IE11-2: Sustainability in Innovation & Entrepreneurship

Location: Room 105 -Centre Prouvé

Chair: **Dominique Jolly**, France Remote link: Room 105 on Microsoft Teams TEC1: Advance manufacturing & Factories of the Future Location: Room 106 -Centre Prouvé

Chair: Alaa Hassan, Université de Lorraine, France Remote link: Room 106 on Microsoft Teams

ECTP2: Smart Construction & Built Environment Location: Room 204 -Centre Prouvé

Chair: Alain ZARLI, ECTP & R2M Solution, France Chair: Yacine Rezgui, Cardiff University, United Kingdom Remote link: Room 204 on Microsoft Teams

6:00pm -7:45pm Free time

7:00pm

Social Event: Visit & Welcoming Cocktail Location: Musée des Beaux-Arts





19:00 - 20:30 - Visit Musée des Beaux-Art Nancy (visits will start at 19:00)

20:30 - 21:45 - Welcome speeches by the IAMOT and ICE Presidents / representatives & Cocktail (Access by registration only) How to join us / move in Nancy

https://www.google.com/maps/d/edit?mid=1qYCByo6cg4Meqk1aQow9rfPGgsUOtV_9&usp=sharing

Date: Tuesday, 21/June/2022 8:00am Regist. D2: Registration Location: Entrance / Registration Desk - Centre Prouvé 8:30am Join ICE-IAMOT conference at Prouvé Convention Center - 1, place de la République CS 60663 - 54063 NANCY Cedex Venue on the ICE-IAMOT website / How to join us - move in Nancy (google map) Plenary03: Keynote 4 8:30am Location: Auditorium 300 - Centre Prouvé 9:30am Alexander Brem (University of Stuttgart, Germany) - Frugal Innovation: Constraint-based thinking as a solution for sustainability? -Remote Link: Auditorium IE2-2: Digital Innovation 9:40am IE13-1: Technology Foresight and IE7-4: R&D, Innovation and Management Forecasting Entrepreneurship Location: Room 103 - Centre Location: Room 104 - Centre Prouvé Location: Room 106 - Centre 10:40am Chair: Breno Nunes, University of Aston, United Prouvé Prouvé Chair: Frédérique Mayer, Université de Chair: Ferney Osorio, UNIVERSITÉ Remote link: Room 104 on Microsoft Teams Lorraine, France DE LORRAINE, France Remote link: Room 103 on Microsoft Remote link: Room 106 on Microsoft **ENG5-2: Rethinking Project** ENG1-1: ICT for health care TEC7: Commercializing Management Location: Room 204 - Centre Prouvé Technology Location: Room 202 - Centre Location: Room 205 - Centre Chair: James Fleck, University of Edinburgh Business School, United Kingdom Prouvé Prouvé Remote link: Room 204 on Microsoft Teams Chair: Brunelle MARCHE, Université de Chair: Joe Amadi-Echendu University of Pretoria, South Africa Lorraine France Remote link: Room 202 on Microsoft Remote link: Room 205 on Microsoft Геатѕ 10:40am **Coffee Break** Location: Fover 850 (Hall) - Centre Prouvé 11:00am 11:00am IE2-1: Digital Innovation IE13-2: Technology TEC2-1: Industry 4.0 IE7-1: R&D, Management Foresight and Innovation and Location: Room 105 -Forecasting Entrepreneurship Location: Room 103 - Centre Centre Prouvé 12:30pm Location: Room 104 -Location: Room 106 -Prouvé Chair: Adriana Simona Mihaita, UNIVERSITY OF Chair: Eric Bonjour, Université de Centre Prouvé Centre Prouvé TECHNOLOGY SYDNEY, Lorraine, France Chair: Mauricio Camargo, Chair: Paulo Antônio Australia Remote link: Room 103 on Microsoft University of Lorraine, Zawislak, UFRGS, Brazil Remote link: Room 105 on Remote link: Room 106 on Microsoft Teams Remote link: Room 104 on Microsoft Teams Microsoft Teams ENG5-1: Rethinking Project ENG3-2: Service ENG1-2: ICT for health ENG14: Smart Management Design and care Services and Location: Room 202 - Centre Engineering Location: Room 204 -Software Platforms Location: Room 203 -Location: Room 205 -Centre Prouvé Prouvé Chair: Robert Bierwolf, IEEE TEMS, Centre Prouvé Chair: Louzanne Bam, Centre Prouvé Netherlands, The Stellenbosch University, Chair: Abdul Rahman Chair: Frédérique Mayer, Remote link: Room 202 on Microsoft Abdel Razek, FARO South Africa Université de Lorraine, Remote link: Room 204 on Technologies Europe GmbH, Germany Microsoft Teams Remote link: Room 205 on Remote link: Room 203 on dicrosoft Teams Microsoft Teams 12:30pm Lunch Location: Foyer 850 (Hall) - Centre Prouvé 1:30pm Plenary04: Keynote 5 1:30pm Location: Auditorium 300 - Centre Prouvé 2:30pm Joshua Pearce (Western University, Canada) - Open source appropriate technology (OSAT): Finding collaborative solutions to problems in sustainability and poverty reduction Remote Link: Auditorium TEC2-2: Industry 4.0: RT-01: Innovation in public IE8: Regional IE7-2: R&D. 2:30pm Administration competitiveness Digital Innovation Innovation and policy and smart management and Entrepreneurship Location: Auditorium 300 -4:00pm specialization applications of Al Location: Room 106 -Centre Prouvé Chair: Vincent BOLY, Université de strategies Location: Room 105 -Centre Prouvé Lorraine / ERPI, France Location: Room 103 -Centre Prouvé Chair: Matjaz Vidmar, The Chair: Fedoua KASMI, Université de University of Edinburgh. Centre Prouvé Chair: Giovanny Arbelaez-Lorraine, France United Kinadom Chair: Paulo Antônio Garces, Université de

Zawislak, UFRGS, Brazil

Microsoft Teams

Remote link: Room 103 on

Lorraine, France

Chair: Imke De Kock

Round table on Innovation in public

Administration with 5 stakeholders:

Deputy Mayor (City of Nancy), Engineer

Remote link: Room 106 on

Microsoft Teams

(City of Nancy), SME, Departmental Fire and Emergency Servic, Academics Supported by the City of Nancy,

Territoria, RNI Remote Link: Auditorium

ENG10-1: Industrial Internet & Industry 4.0

Location: Room 202 - Centre Prouvé

Chair: Abdul Rahman Abdel Razek, FARO Technologies Europe GmbH,

Remote link: Room 202 on Microsoft

Stellenbosch University. South Africa Remote link: Room 105 on

ENG3-1: Service Design and Engineering

Location: Room 203 - Centre Prouvé

Chair: hakim boudaoud, Université de Lorraine, France

Remote link: Room 203 on Microsoft

ENG8-1: Innovation on Education and Learning

Location: Room 204 - Centre Prouvé Chair: Alex Gabriel, Université de Lorraine, France

Remote link: Room 204 on Microsoft Teams

4:00pm

Coffee Break

Location: Foyer 850 (Hall) - Centre Prouvé 4:30pm

Serious Game: "L'année de l'innovation" 4:00pm Location: Foyer 850 (Hall) - Centre Prouvé

Chair: Alice de Casanove. Universite Lorraine. United States of America

animated by: Johan Claire, CEO Innovation Way & ISO; Alice de Casanove, Airbus & ISO

Max 36 people (add to your Conftool agenda)

L'ANNÉE DE L'INNOVATION W

4:30pm

6:00pm

RT-03: Meet the Editors Location: Auditorium 300 -

Centre Prouvé 6:00pm

Chair: Breno Nunes, University of Aston, United Kingdom Chair: Manon Enjolras, Université de Lorraine - ERPI, France

- Technology Forecasting and Social Change - Scott Cunningham virtually
- IEEE Technology and Engineering Management - Alexander Brem person
- Technovation Stelvia Matos -
- Technology Analysis & Strategic Management - James Fleck - in person
- Regional studies David Bailey virtually
- RNI editions Laurent Adatto in person

Remote Link: Auditorium

IE7-3: R&D, Innovation and Entrepreneurship

Location: Room 106 - Centre Prouvé

Chair: Matjaz Vidmar, The University of Edinburgh, United Kingdom Remote link: Room 106 on Microsoft

IE10: Responsible Research and Innovation

Location: Room 103 -Centre Prouvé

Chair: Geerten van de Kaa. Delft University of Technology, Netherlands, The

Chair: Fedoua KASMI, Université de Lorraine, France

Chair: Vincent BOLY, Université de Lorraine / ERPI. France Remote link: Room 103 on Microsoft Teams

IE9: Research and Innovation in Creative Industries

Location: Room 104 -Centre Prouvé Chair: BHUKYA KOTESWARARAO NAIK NATIONAL INSTITUTE OF INDUSTRIAL ENGINEERING, India Remote link: Room 104 on

Microsoft Teams

TEC5: Artificial Intelligence & Big Data

Location: Room 105 -Centre Prouvé Chair: Giovanny Arbelaez-Garces Université de Lorraine. France

Remote link: Room 105 on Microsoft Teams

ENG10-2: Industrial Internet & Industry 4.0 Location: Room 202 -

Centre Prouvé

Chair: Regina Negri Pagani, Federal University of Technology, Paraná (UTFPR), Brazil Remote link: Room 202 on Microsoft Teams

ENG8-2: Innovation on Education and Learning

Location: Room 204 -Centre Prouvé Chair: Alex Gabriel, Université de Lorraine,

France

Remote link: Room 204 on Microsoft Teams

6:30pm 8:00pm IAMOT Board Meeting 02 (closed meeting Board members only)

Location: Lorraine Fab Living Lab

Lorraine Fab Living Lab - 49 Boulevard d'Austrasie - 54000 NANCY

How to access (google map)? or from Congress center

Free evening – Fête de la musique – Enjoy the music in the City center and the old city center of Nancy

Programme from the City of Nancy

https://www.nancy.fr/culturelle/fete-de-la-musique-4359.html (in French)



Date: Wednesday, 22/June/2022

Regist. D3: Registration 8:00am

Location: Entrance / Registration Desk - Centre Prouvé

9:00am Join ICE-IAMOT conference at Prouvé Convention Center - 1, place de la République CS 60663 - 54063 NANCY Cedex

Venue on the ICE-IAMOT website / How to join us - move in Nancy (google map)

Plenary05: EU projects Round Table 9:00am

Location: Auditorium 300 - Centre Prouvé

Chair: Laurent DUPONT, Université de Lorraine, France 10:30am

"Open innovation, technologies & communities as enablers of socio-economical transition"

Context:

- Climate change! Limits and challenges of our current societal model An introduction. Mauricio Camargo Université de Lorraine
- New trends in the EU context and the Society: What responsibility of Science and Innovation in societal transitions? Introduction to RRI by DigiTeRRI - Marianne Hoerlesberger - Austrian Institute of Technology
- Transforming European industry with DIY and open manufacturing facilities Mehera Hassan Technische Universität Berlin

Short presentation of five European projects (DIY4U, iProduce, INEDIT, OpenNext, Climate Labs), results and perspectives + focus:

- Definitions of (open) communities and open innovation
- Engagement strategy to transform European Industry in line with Responsible Research and Innovation and Circular Economy











Remote Link: Auditorium

10:30am Coffee Break

Location: Foyer 300 (small Hall) - Centre Prouvé

11:00am

WS01: Co-designing Open 11:00am innovation, technologies & communities to enable socio-12:30pm economical transition - Pratices

and actions with EU projects Location: Auditorium 300 - Centre Prouvé

Chair: Ivo Zeller, Steinbeis Europa Zentrum, Germany

Workshop open to all - Transforming industry and territories by engaging the international ICE-IAMOT community in European projects: DIY4U, iProduce, INEDIT, OpenNext.

Practical information on the Octroi Nancy demonstrators to prepare your living lab experience in the immersive design factory

Remote Link: Auditorium







Climate Labs

(closed event members only)

Location: Room 103 & 104 -Centre Prouvé



IE12: Tech- & Digital Entrepreneurship

Location: Room 105 -Centre Prouvé

Chair: Clarice Bertin, ICN Business School & BETA Research Center, France

Remote link: Room 105 on Microsoft Teams

WS03: Responsible digitalization: the example of the DigiTeRRI project

Location: Room 106 - Centre Prouvé Chair: Monticolo Davy, Université de Lorraine, Réunion (France)

Chair: Vincent BOLY, Université de Lorraine / ERPI, France

RRI definition

 Implementation of Responsible Digitalization: the necessary adaptation to the context

 Territorial strategy for Responsible Digitalization implementation: the methodologies (roadmapping and vision definition) and the roadmap presentation of three european territories

 Practices and actions to stimulate Responsible Digitalization in 3 regions: Styria / Vârmland / Grand

Remote link: Room 106 on Microsoft Teams



12:30pm

Location: Foyer 300 (small Hall) - Centre Prouvé

1:30pm

1:30pm

Climate Labs (closed event – project member only) Location: Room 103 & 104 - Centre Prouvé

Climate

6:00pm 3:30pm - 4:30pm Coffee Break

Location: Foyer 300 (small Hall) - Centre Prouvé

1:30pm

2:00pm

HyValue at Centre Prouvé Communte to Octroi Nancy

Location: Petite Halle - Octroi Nancy

map on the website - Here the link for Google Maps

by walking and visiting Nancy allow 25 min

by tram: request a transport ticket from the registration desk









1:30pm

WS02: HyValue Workshop

Location: Auditorium 300 - Centre Prouvé

6:00pm Chair: Robert Bierwolf, IEEE TEMS, Netherlands, The

- Chair: **Monticolo Davy**, Université de Lorraine, Réunion (France)

 13:30 Robert Bierwolf Towards PM2030 Research through
- Project Management13:45 Anna Schidek Agilization in MedTech
- 14:00 Phillip Hansen Fuzzy Expert System for Estimation
- 14:15 Markus Schmidtner PM Context Modeling
- 14:30 Holger Timinger Weighting of project management process parameters

14:40 coffee Break

- 15:00 1 Hour HyValue Presentation (20 Min incl. 5 min discussion each)
- 15:00 Markus Schmidtner Interorganizational Project Management in the automotive Industry
- 15:20 Alexander Ziegler- From Cooperation to Collaboration: Sociological Insights into Digital Collaboration Platforms in the Automotive Value Chain
- 15:40 Kirsten Hentschl & Andreas Trautheim-Hofmann -Digital Transformation of Project Schedule Management and Synchronization (PSMS) in Collaboration Networks
- 16:00 Open Discussion
- 16:15 End of Workshop

HyValue

Hybridisierung in der Value Chain

Remote Link: Auditorium









4:15pm - 4:40pm

Communte to Octroi Nancy (after HyValue WS)
Location: Petite Halle - Octroi Nancy

map on the website - Here the link for Google Maps

by walking and visiting Nancy allow 25 min

by tram: request a transport ticket from the registration desk

Exhibition (EU projects): Innovative Design Factory in the city by INEDIT, DIY4U, iPRODUCE, OPEN_NEXT

Location: Petite Halle - Octroi Nancy (20 min from the congress center)

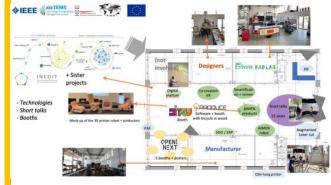
Chair: Laurent DUPONT, Université de Lorraine, France Chair: Robert Mies, Technische Universität Berlin, Germany Chair: Chandana Ratnayake, SINTEF AS, Norway Chair: Manuel Sánchez de la Asunción, AIDIMME, Spain

Demonstrator in Living lab mode at Octroi Nancy (Cultural and creative third place) + networking (open to all & citizens & local industries / SMEs)

- •Do It Together process: from Co-creation to open manufacturing
- •Open_Next pilots & booth
 •iProduce software & booth
- DIY4U booth

Commute to Octroi Nancy





Exhibition at Octroi Nancy









6:00pm

Free time

7:45pm

7:45pm Social Event 2: GALA DINNER

Location: Hotel de Ville de Nancy (City Hall)



Speech by the Mayor of Nancy / Awards / Sound and light "Rendez-vous Place Stanislas"

Dishes made with local producers

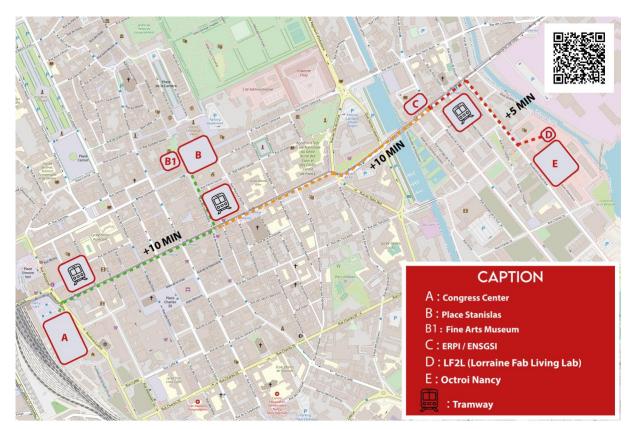
(Access by registration only)

How to join us / move in Nancy

https://www.google.com/maps/d/edit?mid=1qYCByo6cg4Meqk1aQow9rfPGgsUOtV_9&usp=sharing

Date: Thursday, 23/June/2022 9:00am EU Workshop: INEDIT (closed event project member only) Location: Lorraine Fab Living Lab 11:30am 9:30am Immersive Conf: Social innovation labs to mitigate and adapt to climate change Location: Petite Halle - Octroi Nancy 11:00am Chair: Fabio Cruz Sanchez, Université de Lorraine, France Chair: Ferney Osorio, UNIVERSITÉ DE LORRAINE, France Chair: Laure Morel, University de Lorraine, France Strengthening applied research and innovation capacities in Latin-America through co-creation labs for mitigation and adaptation to Climate Change Climate Labs Posters + Networking session + Scientific demonstrators Plenary06: ICE-IAMOT closing session 11:00am Location: Petite Halle - Octroi Nancy 12:30pm General Assembly: Future of Technology, Engineering, and Innovation Management Communities Special Guest: Hélène Boulanger, présidente de l'Université de Lorraine.

Venues ICE-IAMOT Conference



Detailed Agenda

Date: Mo	onday, 20/June/2022						
8:00am	Regist. D1: Registration						
-	Location: Entrance / Registr	ation Desk - Centre Prouvé					
9:00am	Join ICE-IAMOT conference at Pro	ouvé Convention Center - 1, place d	e la République CS 60663 - 54063 l	NANCY Cedex			
	Venue on the ICE-IAMOT website	Venue on the ICE-IAMOT website / How to join us - move in Nancy (google map)					
9:00am	Plenary01: Opening session	& Keynote speakers 1&2					
-	Location: Auditorium 300 - C	Centre Prouvé					
10:30am	Laure MOREL, Mauricio CAMAR	GO, Laurent DUPONT - Welcome ad	dress by the local organizers of the IC	CE-IAMOT conference			
	Karl TOMBRE - Vice-president for	European and International Strategy	at Université de Lorraine, Executive d	lirector of LUE initiative			
	Keynote speakers:						
		t National Laboratory, USA) - "Digitali	zation, De-carbonization, and Innova	tion"- What we need for a			
	Sustainable Planet - see more	d Technological Transformation: Good	d nows for Ecological Transition?	o moro			
	Remote Link: Auditorium	d reclinological transformation. Good	Thews for Ecological Transition: - Se	e more			
10.20am	Coffee Break						
10:30am	Location: Foyer 850 (Hall) -	Centre Prouvé					
11:00am	Education: 1 Gycl God (Hall)	ochire i rouve					
11:00am	IE5: Intrapreneurship &	IE6-1: Living-Labs & Open-	IE11-3: Sustainability in	TEC8: Robotics &			
11:00am	Corporate Venturing	Innovation	Innovation &	Autonomous Systems /			
12:30pm	Location: Room 103 -	Location: Room 104 -	Entrepreneurship	Cyber Physical Systems			
12.00pm	Centre Prouvé	Centre Prouvé	Location: Room 105 -	(CPS)			
	Chair: Fabio Cruz Sanchez , Université de Lorraine, France	Chair: Laure Morel , University de Lorraine, France	Centre Prouvé	Location: Room 106 -			
	Remote link: Room 103 on	Remote link: Room 104 on	Chair: Manon Enjolras , Université de Lorraine - ERPI, France	Centre Prouvé Chair: Klaus-Dieter Thoben.			
	Microsoft Teams	Microsoft Teams	Remote link: Room 105 on	BIBA - Bremer Institut für			
			Microsoft Teams	Produktion & Logistik, Germany Remote link: Room 106 on			
	Organizational and	Unfolding innovation lab	Freeling the delines of	Microsoft Teams			
	Personal Self-Concept	services in public	Evaluating the drivers of				
	and their Moderating	hospitals: a hospital	frugal innovation and its relation to sustainability	Digitization			
	Relationships as Determinant to	FabLab case study	- A Systematic	technologies in			
	Entrepreneurial	Ambre Scarmoncin ¹ , Clothilde Portelli ² , Ferney	Literature Review	transport logistics: A			
	Orientation	Osorio ³ , Guillaume	Tsireledzo Maliehe, Schalk	systematic literature			
	Charl David Theron, Elma	Eckerlein ¹	Grobbelaar	review protocol			
	Van der Lingen	1: APHP Paris Saclay; 2:	Department of Engineering	John-Dean Kasher,			
	University of Pretoria, South	Humaniteam Design; 3: ERPI, Université de Lorraine	and Technology	Simon Riedle, Navid Julian Sardarabady			
	Africa	Offiversite de Loffairle	Management, University of Pretoria, South Africa	DHBW Ravensburg			
			r rotoria, Godar rarioa	Campus Friedrichshafen,			
		On the Use of Low-Code		Germany			
	Why Companies	and No-Code Tools for	The influence of circular				
	Implement Multiple	Teaching Data Science	economy				
	Corporate Entrepreneurship Units	in Applied Industrial and	implementation on	Validation of vehicles			
	Nicolai Heinzelmann ¹ , J.	University Settings	competitiveness in	with automated			
	Roland Ortt ² , Guido H.	Martin Dobler ¹ , Jürg	manufacturing	features through the detection of			
	Baltes ¹	Meierhofer ² , Klaus Frick ³ ,	companies	behavioral differences			
	1: HTWG Konstanz,	Marcus Bentele ¹	Ulla Anneli Saari ¹ , Matthias	between humans and			
	Germany; 2: Delft University,	1: Vorarlberg University of Applied Sciences, Austria; 2:	Schneider ² , Svenja Damberg ² , Leena Aarikka-	machines			
	Netherlands	ZHAW School of Engineering;	Stenroos ¹ , Minna Lanz ³ ,	Manuel Schwarz, Luc			
		3: OST Eastern Switzerland	Cornelius Herstatt ² ,	Rolland, James Bruce			
	Unanyarina seele et	University of Applied Sciences		Johnston			
	Uncovering goals of		1: Industrial Engineering &	University of West			
	corporate entrepreneurship: A		Management, Tampere University, Finland; 2: Institute	Scotland, United Kingdom			
	classification based on	Collaborative networks	for Technology & Innovation				
	literature review	between innovation	Management, Hamburg	I de la décida de la			
	Christina Lang ¹ , Isabella	spaces	University of Technology,	Identifying real-world			
	Fitzky ¹ , J. Roland Ortt ² ,	Fanny Pruvot, Laurent	Germany; 3: Automation Technology & Mechanical	problems with automated vehicles by			
	Guido H. Baltes ¹	Dupont, Laure Morel Laboratoire ERPI, France	Engineering, Tampere	detecting behavioral			
	1: Institute for Strategic	Laboratore LIVET, France	University, Finland; 4: Institute	differences in steering			
	Innovation & Technology		of Human Resource				
	Management, HTWG		Management &	movements between			

Intrapreneurship corporate entrepreneurship integrated opera and strategic modynamic capabil approach JOSE CARLOS CUFRANCO, MIRIAM DELGADO VERDE UNIVERSIDAD COMPLUTENSE D MADRID, Spain	gy, Policy Delft Industrial Design in the Fuzzy Front-End – FF Lilian Schreiner Módolo Paulo Tromboni de Souz Nascimento 1: USP, Brazil; 2: USP, Brational Odel from ities	Identification of Critical	Emerging Technologies Apps for Intelligent ERP Ahmed Mohamed Abdelrahman Fayed, Mohamed Omar Ezzat Nile Universty, Egypt
TMO0. Francis Com	Throat 4, SOM 40	Innovation: the Design of Sustainable Websites Pauline Lacom ^{1,2} , Sylvain Sagot ^{2,3} 1: LISI Automotive, Grandvillars 90600, France; 2 ERCOS Research Group, ELLIADD Laboratory (E.A. 4661), UBFC; 3: ESTA Belfort, School of Business and Engineering, Belfort 90000, France	
ENG2: Energy Sup Energy Utilities Location: Room 204 Centre Prouvé Chair: Yacine Rezgui, University, United King Remote link: Room 204 Microsoft Teams	Location: Room 205 - 4 - Centre Prouvé Chair: Kulwant Pawar, Nottingham University, United Kingdom		
A Conceptualisa the Integration a Evaluation of Ge Mainstreaming i Project Develope Lelani Oosthuizen De Kock, Josephir Musango	nd process flexibility: A systematic review Marike Spamer, Louzanr Bam Stellenbosch University,		
Stellenbosch Unive South Africa Case study on the impact of engine changes during plant construction Phetheni Mhlongo Megashnee Munsa Harm Christiaan Puniversity of Johann South Africa	loT system for the validation of condition in shipping couriers Pedro Miquel Moreira Filipe ¹ , Bruno Mataloto ² , Carlos Coutinho ² 1: ISCTE - Instituto Universitário de Lisboa, Portugal; 2: Information Sciences, Technologies au Architecture Research Cou	nd	
Overview of cha and requirement sustainable ener transition in Wes	Application to Use		

Balkans with focus on Yuto Nakano, Yasuaki Kobayashi, Takao Kojima, **BH: A literature review** Yutaka Miyake, Shinsaku Damir Androsevic, Mauricio Kiyomoto Camargo, Noureddine KDDI Research, Japan Takorabet, Mustafa Music Universite de Lorraine INFRASTRUCTURE PROJECTS IN SUB SAHARAN AFRICA, **SENSITIVITY TO** POLITICAL RISKS Noah Ogano¹, Leon Pretorius² 1: Strathmore University, Kenya; 2: University of Pretoria, South Africa 12:30pm Lunch Location: Foyer 850 (Hall) - Centre Prouvé 1:30pm Plenary02: Keynote speaker 3 1:30pm Location: Auditorium 300 - Centre Prouvé 2:30pm Alice de Casanove (Airbus) - Return of experience regarding Innovation management ISO 56000 series: Implementation in a large organization - see more Remote Link: Auditorium IE11-1: Sustainability in 2:30pm IE4-1: Human, Socio-IE6-2: Living-Labs & Open-TEC3-2: Technology on Education and Training Economic and Culture Innovation Innovation & Entrepreneurship Issues Location: Room 104 -Location: Room 202 -4:00pm Location: Room 103 -Location: Room 105 -Centre Prouvé Centre Prouvé Chair: Laurent DUPONT, Chair: Raphaël BARY, Centre Prouvé Centre Prouvé Université de Lorraine, France Chair: Brunelle MARCHE, Université de Lorraine, France Chair: Fedoua KASMI, Université de Lorraine, France Remote link: Room 104 on Université de Lorraine, France Remote link: Room 202 on Remote link: Room 103 on Microsoft Teams Remote link: Room 105 on Microsoft Teams An Investigation into **User-centered Contributing to Turnover Intention of** prototypes-insights from the Challenges and **High-Tech Industry** monitoring and a design thinking Solutions of e-learning Managers: A Push-Pullevaluation practices by in Tertiary Institutions workshop series **Mooring Model** conceptualizing a during the COVID-19 Laura Christina Rehberg Valuable Insights from **Pandemic** Chih-Hung Hsieh, Cheng-Ru University of Stuttgart, Log Analysis (VILA) Hu, Chu-Yun Teng Germany Chandini Singh, Schalk College of Management, Framework. Grobbelaar Yuan Ze University, Taiwan Ane van Schalkwyk¹, Sara Grobbelaar², Euodia Department of Engineering and Technology An investigation of Vermeulen³, Marlien Management, University of design in virtual reality Herselman⁴ Pretoria, South Africa Implementing the across the variation of 1: Department of Industrial systemic approach training degree and Engineering, Stellenbosch supporting territorial visual realism University, South Africa; 2: **Experiences and** resilience: the case of Department of Industrial Sylvain Fleury1, Laurent challenges with the 'Toile' tool. Engineering, Stellenbosch Dupont², Noémie pandemic online University AND DSI-NRF Chaniaud¹, Saadallah Tamazart², Benjamin Poussard¹, Geoffrey Mathilde SCHWOB1, Fedoua Centre of Excellence in KASMI¹, Laurent DUPONT¹ learning Jean-François VEREECKE², Scientometrics and Science, Acelya Özkan, Katja Technology and Innovation Gorisse¹, Simon Richir¹ Claudine GUIDAT1 Josenhans, Layana Policy (SciSTIP) Stellenbosch 1: Université de Lorraine, 1: Arts & Metiers Institute of Berendt, Ludwig Martin University; 3: Department of ERPI Laboratory, France; 2: Technology LAMPA, HESAM Pforzheim University, Industrial Engineering, Agence d'Urbanisme et de University F-53810 Change, Germany Stellenbosch University, Développement de la Région France; 2: Université de South Africa, 4. Department of Flandre-Dunkerque (AGUR), Lorraine ERPI F-54 000 Industrial Engineering Nancy, France France Stellenbosch University AND A Framework for Next Generation Enterprises Outsourcing and Institutions CSIR Pretoria, Maintenance in the South Africa A literature-based Designing a group Era of Industry 4.0 categorization model of decision-making tool within the

under Living Lab project

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capabilities to boo organizations' innovation capacit <u>Mariela Martinez</u> , Lau Morel, Manon Enjorla Univerisité de Lorraine Rica	ies Maxence Arnould ¹ , Mar ire Enjolras ² , Mauricio Camargo ²	in the waste from electrical and electronic equipment context Claudio Sassanelli¹, Paolo Rosa², Sergio Terzi², Giorgio Mossa¹	Petrochemical Industry Sello Mollo ¹ , Leon Pretorius ² , Jan Harm C Pretorius ¹ 1: University of Johannesburg, South Africa; 2: University of Pretoria, South Africa
		1: Politecnico di Bari, Italy; 2: Politecnico di Milano, Italy Household support to adopt preventive innovations to mitigate climate change: A case of Finnish apartment buildings Deborah Karen Kuperstein-Blasco¹, Jussi Valta¹, Saku Mäkinen² 1: Tampere University, Finland; 2: University of	Adoption of mobile applications to improve the reading habits of rural readers in southern Africa's secondary schools. Nkomo Sifundo¹, Walter Matli² 1: University of South Africa; 2: University of South Africa
		Enabling the citizen- driven renewable energy transition Antonia Krebs, Björn Koch COAST Centre for Environment and Sustainability Research, University of Oldenburg, Germany	Is there education with the closed school? Long-term impacts on Emergency Remote Education (ERE) Lilian Schreiner Módolo¹, Luiz Augusto Módolo², Edna Barbosa dos Santos³ 1: USP, Brazil; 2: USP, Brazil; 3: Faculdades Dom Bosco, Brazil
ENG4-1: Sustainable Engineering Location: Room 203 - Centre Prouvé Chair: Alaa Hassan, Univ Lorraine, France Remote link: Room 203 of Microsoft Teams The Forest Industr Development With South Africa and C Southern African Development Community Counts Karen Louise Schmid Wouter Gideon Bam¹ Philani Nduna Zincuut Karolien De Bruyne¹. 1: Stellenbosch Univer South Africa; 2: KU Le Belgium	Solution, France Chair: Sylvain Kubicki, Luxembourg Institute of Scie and Technology, Luxembour Remote link: Room 204 on Microsoft Teams Designing Out the Ri of Infections via Aerosols by Updatin Restrictions on Indo Environments Depending on Local Incidence Rates and Dominant SARS-Cov Strain Ruth Wallace, Yacine Rezgui, Ali Ghoroghi	Location: Room 205 - Centre Prouvé Chair: Mauricio Camargo, University of Lorraine, France Remote link: Room 205 on Microsoft Teams Quantifying the Environmental Impacts of Battery Electric Vehicles from a Criticality Perspective Fernando Penaherrera V.¹, Maria Fernanda Davila Restrepo¹, Dr. Ing. Alexandra Pehlken¹, Björn Koch² 1: OFFIS e.V Institut für Informatik, Germany; 2: Carl von Ossietzky Universität Oldenburg	
Impact of automati during innovative remanufacturing processes in circu economy	Evidencing the	Design of an optimised value creation network for zero emission ferries Jan-Philipp Disselkamp ¹ , Tobias Seidenberg ¹ , Harald Anacker ¹ , Roman	

		Perla Nohra ¹ , Helmi Ben Rejeb ² , Swaminath Venkateswaran ³ 1: Grenoble INP, CNRS University of Grenoble Alpes, France; 2: Grenoble INP, CNRS University of Grenoble Alpes, France; 3: Leonard de Vinci Pole Universitaire, France	sociotechnical perspective: use cases and measurable scenarios Professor Yacine Rezgui ¹ , Dr. Ioan Petri ² , I <u>rini Barbero</u> ³ 1: Cardiff University; 2: Cardiff University; 3: Cardiff University	1: Fraunhofer Research Institute for Mechatronic Systems Design IEM, Germany; 2: Heinz Nixdorf Institute, University of Paderborn Integrated Digital		
_		Design of Circular Economy Enhancing Journeys for Automotive Manufacturing Industry Siro Dell'Ambrogio, Silvia Menato, Jennifer Nika, Luca Canetta, Marzio Sorlini SUPSI	Implementation of a digital twin framework in the modular housing industry Anne Fischer¹, Jorge Rodriguez Llorens¹, Zhen Cai¹, Michael Wilke², Stephan Kessler¹, Johannes Fottner¹	System in Planning, Scheduling and Logistics Processes at a Petroleum Company Buhle Sihlali, Arnesh Telukdarie University of Johannesburg, South Africa		
		Sustainable Gardens for Smart Cities using Low- Power Communications Bruno Mota, Bruno Mataloto, Carlos Coutinho ISCTE-IUL, Lisbon, Portugal	1: Technical University of Munich, Germany; 2: Max Bögl Modul AG, Germany			
	4:00pm - 4:30pm	Coffee Break Location: Foyer 850 (Hall) - 0	Centre Prouvé			
	4:30pm	IE4-2: Human, Socio-	IE6-3: Living-Labs & Open-	IE11-2: Sustainability in	TEC1: Advance	
	- 6:00pm	Economic and Culture Issues	Innovation Location: Room 104 -	Innovation & Entrepreneurship	manufacturing & Factories of the Future	
	0.00pm	Location: Room 103 - Centre Prouvé Chair: DEYCY JANETH SANCHEZ PRECIADO, Halmstad University, Sweden Remote link: Room 103 on Microsoft Teams	Centre Prouvé Chair: Marc Pallot, Arts & Metiers ParisTech, France Remote link: Room 104 on Microsoft Teams Investigate Innovation	Location: Room 105 - Centre Prouvé Chair: Dominique Jolly, France Remote link: Room 105 on Microsoft Teams Exploring the demands	Location: Room 106 - Centre Prouvé Chair: Alaa Hassan, Université de Lorraine, France Remote link: Room 106 on Microsoft Teams	
		Determinants of Manpower Utilisation in Manufacturing Firms Victor Oluwasina Sobanke National Centre for Technology Management, Nigeria	Intermediary in civilian space industry innovation network: a grounded theory study Vahid Mohammadi, Mohammad Abooyee Ardakan, Manouchehr Manteghi	of energy management service for the manufacturing firms Phil Yang ¹ , Yichang Yang ² 1: National Taichung University of Education, Taiwan; 2: Shih Chien University, Taiwan	Concept of a business-process- related digital twin based on systems theory and operational excellence Markus Rabe, Emre Kilic Technische Universität	
			University of Tehran, Iran, Islamic Republic of		Dortmund, Germany	
		ENABLING TRANSFER OF INTERMEDIATE TECHNOLOGIES - A RURAL BUSINESS PROJECT CASE IN RURAL COLOMBIA DEYCY JANETH SANCHEZ PRECIADO	Aligning Open Engineering Practices Matjaz Vidmar The University of Edinburgh, United Kingdom	Implementing Lean Manufacturing as a Business Management Strategy to eliminate waste The case of an Automobile company Eric Mikobi Bakama, Charles Mukurakungu	How can machine learning improve waste-to-energy plant operation Alexandra Pehlken ¹ , Henriette Garmatter ² , Lisa Dawel ¹ , Fabian	
		Centro Regional de Productividad e Innovación del Cauca - Halmstad University	Smart Campus: Concepts, development and future	Charles Mukwakungu Sambil, Nita Sukdeo University of Johannesburg, South Africa	Cyris³, Hendrik Beck¹, Fenja Schwark¹, Roland Scharf², Astrid Nieße¹ 1: OFFIS, Germany; 2: Leibniz University	
		Entrepreneurial Motivation: An	Juan Arenas ¹ , Pedro Palominos ¹ , <u>Rodrigo</u> <u>Martin¹</u> , Mauricio Camargo ² ,	Towards a Strategic Decision Support Tool	Hannover, Germany; 3: EEW - Energy from Waste, Germany	

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		Green Technology:	Value with Base of the	1: Cardiff University, United
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		vehicles in India	Chihambakwe ¹ , Sara	
		<u>Johnsi Priya</u> ¹, Bhukya	{Saartjie} Grobbelaar ^{1,2} ,	
		Koteswararao Naik²,	Stephen Matope ¹	SemanticLCA: A new
		Deepesh Kaushik²	Department of Industrial Engineering, Stellenbosch	generation of life cycle
		1: Meston College of	University, South Africa; 2:	assessment methods
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		developing countries.	<u>Pretorius</u> ², Jan Harm C	<u>Calin Boje</u> , Sylvain Kubicki,
		Raphael Kafui Natsui ¹ ,	Pretorius ¹	Annie Guerriero, Sebastien
		Kingsford Kissi Mireku²,	1: University of	Thomas
		Emmanuel Sasu ³ , Gustave Kojo Gameli Amuzu ²	Johannesburg, South Africa; 2: University of Pretoria,	Luxembourg Institute of Science and Technology
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		Trajectory of LED Smart Street Lighting by Main		
		Path Analysis		
		Kuel-Kuel Lai, <u>Adam Kao-</u>		
		Wen Weng*, Hsiao-Yun		
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		Chaoyang University of		
		Technolog, Taiwan		
		Green Technology		
		Readiness of		
		Telecommunication		
		Firms in India: An		
		Exploratory Study		
		Shikha Sargam, Ruchita Gupta		
		NITIE, India		
	7:00pm	Social Event: Visit & Welcomi	ing Cocktail	
		19:00 - 20:30 - Visit Musée des Bea	ux-Art Nancy	
			by the IAMOT and ICE Presidents / re	epresentatives & Cocktail
		(Access by registration only) How to	join us / move in Nancy	
		https://www.google.com/maps/d/edit	r?mid=1qYCByo6cg4Meqk1aQow9rfF	PGgsUOtV_9&usp=sharing
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Date: Tuesday, 21/June/2022 8:00am Regist. D2: Registration Location: Entrance / Registration Desk - Centre Prouvé 8:30am Join ICE-IAMOT conference at Prouvé Convention Center - 1, place de la République CS 60663 - 54063 NANCY Cedex Venue on the ICE-IAMOT website / How to join us - move in Nancy (google map) 8:30am Plenary03: Keynote speaker 4 Location: Auditorium 300 - Centre Prouvé 9:30am Alexander Brem (University of Stuttgart, Germany) - Frugal Innovation: Constraint-based thinking as a solution for sustainability? - see more Remote Link: Auditorium IE2-2: Digital Innovation IE13-1: Technology IE7-4: R&D, Innovation ENG5-2: Rethinking Project 9:40am and Entrepreneurship Management Foresight and Management Forecasting Location: Room 103 -Location: Room 106 -Location: Room 202 - Centre 10:40am Location: Room 104 -Centre Prouvé Centre Prouvé Prouvé Chair: **Ferney Osorio**, UNIVERSITÉ DE LORRAINE, Chair: Brunelle MARCHE, Université de Chair: Frédérique Mayer, Centre Prouvé Université de Lorraine, France Lorraine, France Chair: Breno Nunes, University Remote link: Room 202 on Microsoft Teams Remote link: Room 103 on of Aston, United Kingdom Microsoft Teams Remote link: Room 106 on Remote link: Room 104 on Microsoft Teams Microsoft Teams Comparison of Scrum's Methodology Manufacturing/Remanufacturing Linking innovation Benefiting from the adaptations to meet CO2 emissions balance: dynamics with Power of the Crowd: the teleworking needs application to a mowing Contribution of the experienced by scientific knowledge machine Crowds to the Idea of climate change Software Brunelle MARCHE¹, Diego Nicolas **Evaluation Phase** mitigation **Development Teams** PARRADO RODRIGUEZ¹, Olivier technologies ahmet cubukcu1, özlem Luís Fernando Gama¹, CHERY1, Mauricio CAMARGO1, akarçay², tuba ulusoy¹ Bhukya Koteswararao Ana Correia Simões² Christophe BACHMANN² Naik¹, Rahul Mishra¹, 1: necmettin erbakan 1: School of Economics 1: Université de Lorraine, ERPI Funiversity; 2: Kto karatay Vasu Choudhary² 54000 Nancy, France; 2: NOREMAT and Management 1: NITIE, India; 2: IGNTU, university ,University of Porto, Porto, S.A, F-54710 Ludres, France Portugal; 2: INESC TEC India Institute for Systems and Computer Engineering, **Understanding** Collaborative capacity of open Technology and Science, inclusive innovation in **Under which** Centre for Enterprise source hardware communities: conditions will "Flying informal economy, a Systems Engineering A cross-sectional study conceptual model Porto, Portugal Taxis" become Robert Mies¹, Jérémy Bonvoisin² relevant for inner-city Milena Legarda-López1, 1: Technische Universität Berlin, María Luisa Villalba², passenger transport in Institute for Machine Tools and Factory Walter Ruiz-Castañeda1 the future?: Scenario Management, Germany; 2: Without **Design or Redesign** 1: Facultad de Minas, affiliation **Analysis Business Models'** Universidad Nacional de Innovation in the Swarnalekha Khandker, Colombia, Medellín, **Ahasan Ullah Shohag Digital Transformation** Colombia; 2: Facultad de Hochschule Harz. Context Ciencias Económicas y Joint-design of products and Germany Administrativas, supply chain in a context of Patrick Ratté, Elaine Universidad Católica de Mosconi, Leandro innovation Oriente, Rionegro, Feitosa Jorge Brunelle MARCHE¹, Vincent BOLY¹, Colombia Université de Sherbrooke. **Technology** J. Roland ORTT², Laure MOREL¹ Canada Roadmapping and 4iR 1: Université de Lorraine, ERPI Fin Defence: Case of 54000 Nancy, France; 2: Delft University of Technology Faculty of Command and Control A Research on Technology Policy and Management, **Iterability of Value Systems** Innovation Delft. Netherlands **Dimension Change in** Andries Linda Malinga^{1,2}, Management in Firms: **New Product** Alwyn Strauss³, Petrus A Review and Letaba¹, Marthinus W. **Development Process** Research Agenda Pretorius¹ Kiyohiro Yamazaki Surabhi Singh, Sanjay 1: University of Pretoria, Tohoku University, Japan Dhir, Mayur Chikhale South Africa; 2: Council for Indian Institute of Scientific and Industrial Technology Delhi, India Research (CSIR), South Africa: 3: Private Consultancy, South Africa ENG1-1: ICT for health **TEC7: Commercializing** Technology care Location: Room 204 -Location: Room 205 -Centre Prouvé Centre Prouvé Chair: James Fleck, University Chair: Joe Amadi-Echendu,

of Edinburgh Business School, University of Pretoria, South United Kingdom Africa Remote link: Room 204 on Remote link: Room 205 on Microsoft Teams Microsoft Teams **Technology** Sustainable Design of **IT Systems with** backcasting: Digital Twins -Retrospective case Principles, studies from mining **Application Areas and** and mineral **Advantages** processing Rainer Lutze Joe Amadi-Echendu, Pavlen Govender, Dr.-Ing. Rainer Lutze Magretha Vlok Consulting, Germany University of Pretoria, South Africa **DESIGN OF AN ULTRASOUND IMAGE IPR ECOSYSTEM IN GUIDED ROBOT THAT DEVELOPING DRAWS BLOOD COUNTRIES: A CASE FROM VEINS** STUDY OF AN Tawanda Mushiri¹, Victor **INSTITUTE OF** Pavari2, Habib Noorbhai1 **EMINENCE** 1: University of Johannesburg, South Shubham Anand, Africa; 2: University of Priyadarshini Singh, Zimbabwe Gouri Ashok Gargate IIT Kharagpur, India The benefits and challenges of The adoption of Implementing Smart **Scaled Agile** hospital projects: A Framework (SAFe) in systematic review non-agile organizations. **Eveth Nkeiruka** Nwobodo-Anyadiegwu, Kwete Mwana Mira Ditend, Alice Nyandongo, Mmammule Kabamba Lumbwe Grace Madumo University of University of Johannesburg, South Johannessburg, South Africa Africa 10:40am **Coffee Break** Location: Foyer 850 (Hall) - Centre Prouvé 11:00am 11:00am IE2-1: Digital Innovation IE13-2: Technology Foresight and Management Location: Room 103 -Forecasting 12:30pm Location: Room 104 -Centre Prouvé Chair: Eric Bonjour, Université Centre Prouvé de Lorraine, France Chair: Mauricio Camargo, Australia Remote link: Room 103 on University of Lorraine, France Microsoft Teams Remote link: Room 104 on **Fthical**

Considerations of Artificial Intelligence: **Ensuring Fairness,**

> **Explainability** Haroon Abbu1, Paul Mugge², Gerhard Gudergan³

Transparency, and

1: Bell and Howell; 2: NC State University; 3: RWTH Aachen University

Identification and evaluation of development paths for technology-oriented industrial companies in structural transformation processes

Alessandro Sala, Arko Steinwender, Peter Schieder, Wilfried Sihn Fraunhofer Austria Research GmbH, Austria TEC2-1: Industry 4.0 Location: Room 105 -Centre Prouvé

Chair: Adriana Simona Mihaita, UNIVERSITY OF TECHNOLOGY SYDNEY,

Remote link: Room 105 on Microsoft Teams

Evolution of Industrial Symbiosis scientific field in Brazil: Insights from a systematic literature review and a bibliometric analysis

Emilia de Oliveira Faria, Cristiane Barreto, Armando Caldeira-Pires, Alisson Lima-Silva University of Brasilia, Brazil IE7-1: R&D, Innovation and Entrepreneurship

Location: Room 106 - Centre

Prouvé

Chair: Paulo Antônio Zawislak, UFRGS, Brazil

Remote link: Room 106 on Microsoft Teams

P2B Methodology: from patents to business

Gabriela Fernandes^{1,2}, Pedro Lucas¹, Ana Correia Simões³, Gustavo Dalmarco

1: University of Coimbra, Department of Mechanical Engineering; 2: CEMMPRE, Department of Mechanical Engineering Coimbra, Portugal; 3: INESC TEC - Institute for Systems and Computer Engineering, Technology and Science Centre for Enterprise Systems Engineering Porto, Portugal

Becoming Holy Grail of Health on the Move: Identifying and Prioritizing Factors Affecting the Commercialization of m-Health Saeedeh Ghoochkanloo, Mohammad Naghizadeh, Mehdi Goodarzi Allameh Tabataba'i University, Iran, Islamic Republic of	Towards a Framework to Assess the Impact of Innovative Transportation Technologies Heiko Duin BIBA - Bremer Institut für Produktion und Logistik GmbH, Germany Socio-technical Transitions and the Fourth Industrial	Multi-objective modelling of a roadside mowing problem: a case study in France Adriana-Simona MIHAITA ¹ , Brunelle MARCHE ² , Mauricio CAMARGO ² , Iman RAHIMI ¹ , Christophe BACHMANN ³ 1: University of Technology Sydney, Sydney, Australia; 2: Université de Lorraine, ERPI F-54000 Nancy, France; 3: NOREMAT S.A.	INNOVATION CAPABILITIES IN PANDEMIC TIMES: EVIDENCE FROM RESILIENT MANUFACTURING FIRMS IN BRAZIL Ariane Melo Silva Ávila, Denise Barbieux, Ricardo Machado Leo, Guilherme Freitas Camboim, Paulo Antônio Zawislak Federal University of Rio Grande do Sul, Brazil Leapfrogging into the Fourth Industrial Revolution: Lessons from Promising Practices
and the Stages of Digital Business Transformation Irmak Mutlu, Erik den Hartigh, Caglar Ucler Ozyegin University, Turkey	Revolution: The need for an integrated analysis. Martha Mukama Asiimwe, Prof. Imke H. de Kock Stellenbosch University,	The use of 4IR technologies to improve the IT auditor's job function KM Nyandongo, SS Pillay	Evah Phago, Petrus Letaba Department of Engineering and Technology Management, University of Pretoria, South Africa
 Coopetition: A Critical Review and Directions for Future Research	South Africa	University of Johannesburg, South Africa	Dauntless Research and Development Investments of Deficit Senior-Star Biotech Firms in the Valley of Death Takao Fujiwara
Abhilasha Meena, Sanjay Dhir, Sushil Sushil Indian Institute of Technology Delhi, India	institutional order Alana Bauer Lacerda, Fernando Lopes Universidade Federal do Rio Grande do Sul, Brazil	Speech Assistance: Use cases in Industry Manfred Langen Siemens AG, Germany	Toyohashi University of Technology, Japan
Transition to Remote Work: Peculiarities of Social Networks Use Vida Davidavičienė, Sigitas Davidavičius, Aurelija Burinskienė Vilnius Gediminas Technical University, Lithuania	Customers' Purchasing Behavior: Persuasion of Online Food Delivery System Based on Hedonic and Utilitarian Features Nor Aziati Abdul Hamid, Zainal Ainul Nabihah, Tasmin Rosmaini, Abdullah Norhazana Universiti Tun Hussein Onn Malaysia, Malaysia		
ENG5-1: Rethinking Project Management Location: Room 202 - Centre Prouvé Chair: Robert Bierwolf, IEEE TEMS, Netherlands, The Remote link: Room 202 on Microsoft Teams	ENG3-2: Service Design and Engineering Location: Room 203 - Centre Prouvé Chair: Abdul Rahman Abdel Razek, FARO Technologies Europe GmbH, Germany Remote link: Room 203 on Microsoft Teams	ENG1-2: ICT for health care Location: Room 204 - Centre Prouvé Chair: Louzanne Bam, Stellenbosch University, South Africa Remote link: Room 204 on Microsoft Teams	ENG14: Smart Services and Software Platforms Location: Room 205 - Centre Prouvé Chair: Frédérique Mayer, Université de Lorraine, France Remote link: Room 205 on Microsoft Teams A Study of Adoption and Effects
UNCERTAINTIES MANAGEMENT FROM THE HARD AND SOFT APPROACH, IN PROJECTS OF BRAZILIAN AEROSPACE SECTOR Teresa Raquei	Analysis of Failure Mode Effects of the Traction Motor Bayanda Kunene, Arnesh Telukdarie University of Johannesburg, South Africa	Development of a leanness assessment tool for hospitals Bronwyn Joubert, Wouter Bam Stellenbosch University, South Africa	of DevOps Practices Tyron Offerman, Robert Blinde, Christoph Johann Stettina, Joost Visser LIACS, Leiden University, Niels Bohrweg 1, 2333 CA Leiden, The Netherlands
<u>Domingos</u> ^{1,2} , Milton Chagas ¹			

	1: INPE - Instituto Nacional de Pesquisas Espaciais, Brazil; 2: EMBRAER S.A The Integration of Industry 4.0 on Corporate Social Responsibility (CSR) Projects: A Systematic Review Eveth Nkeiruka Nwobodo-Anyadiegwu, Sikhakhane Z, Alice Kabamba Lumbwe University of Johannesburg, South Africa	Managing structural integrity of pipelines utilizing inline inspection data Cynthia Ntombizanele Mbele, Humna Hassan Malik, Jan Harm Pretorius Rand Water, South Africa Developing a Rapid Service Prototyping Framework Daniela Fehrenbach ¹ , Abdul Rahman Abdel Razek ² , Christian van Husen ¹ 1: Hochschule Furtwangen University, Germany; 2:	Co-Design for Gender Equality in an Al-Based Virtual Assistant for Intensive Care Units Nicola Marsden ¹ , Suchanda Bhattacharyya ² , Janine Meyer-Christodoulou ² , Lukas Martin ² , Arne Peine ² 1: Heilbronn University, Germany; 2: Clinomic GmbH, Aachen, Germany The Healthcare Data Management Maturity Model (HDM3) for the assessment of	Cyclical Transformation of Value Creation for Smart Services Jannik Reinhold¹, Christian Koldewey¹, Roman Dumitrescu² 1: University of Paderborn, Germany; 2: Fraunhofer IEM, Paderborn, Germany A Systematic Review of Concepts and Future Directions of Platform Ecosystem Development Chibuike Cornelius Mbanefo¹,³, Sara Saartjie Grobbelaar¹,² 1: Department of Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa; 2: DSI- NRF CoE in Scientometrics and
	Managing Projects More Successful: Evaluation of a Concept for Implementing Critical Success Factors in Practice Maximilian Schöberl ¹ , Simone Tuyisabe ¹ , Christoph Hellauer ² , Johannes Fottner ¹ 1: Technical University of Munich, Germany; 2: Wacker Neuson SE, Germany	From need to requirement: a methodological contribution Vincent BOLY, Brunelle MARCHE, Davy MONTICOLO, Manon ENJOLRAS, Frédérique MAYER Université de Lorraine / ERPI, France	healthcare data management in developing countries Laubscher van der Merwe ^{1,2} , Imke de Kock ¹ , Wouter Bam ¹ 1: Stellenbosch University, South Africa; 2: CSIR, South Africa Investigating the integration of public and private pharmaceutical supply chains Jessica Botes, Wouter Bam, Imke de Kock	NRF COE in Scientometrics and Science, Technology and Innovation Policy (sciSTIP), Stellenbosch University Stellenbosch, South Africa; 3: Institute for Biomedical Engineering, Stellenbosch University, Stellenbosch, South Africa Measures for Integrated Product Support (IPS) in Early Life Cycle of Aerospace and Defense Systems – Introduction of New IPS Measures with Reference to the ASD IPS Suite Ljubisa Vaskic¹, Kristin Paetzold² 1: HENSOLDT Sensors GmbH, Germany; 2: Technische Universität Dresden, Germany
12:30pm - 1:30pm 1:30pm - 2:30pm	Plenary04: Keynote 5 Location: Auditorium 300 Joshua Pearce (Western Unive	- Centre Prouvé ersity, Canada) - Open source app	Stellenbosch University, South Africa	ng collaborative solutions to problems in
2:30pm - 4:00pm	Remote Link: Auditorium RT-01: Innovation in public Administration Location: Auditorium 300 - Centre Prouvé	IE8: Regional competitiveness policy and smart specialization strategies	TEC2-2: Industry 4.0: Digital Innovation management and applications of Al	IE7-2: R&D, Innovation and Entrepreneurship Location: Room 106 - Centre Prouvé
	Chair: Vincent BOLY, Université de Lorraine / ERPI, France Chair: Fedoua KASMI, Université de Lorraine, France Round table on Innovation in public Administration with 5 stakeholders: Deputy Mayor (City of Nancy), Engineer (City of Nancy), SME, Departmental Fire and Emergency Servic, Academics	Location: Room 103 - Centre Prouvé Chair: Paulo Antônio Zawislak, UFRGS, Brazil Remote link: Room 103 on Microsoft Teams iops: a Python package for the Input- Output Product Space	Location: Room 105 - Centre Prouvé Chair: Giovanny Arbelaez- Garces, Université de Lorraine, France Chair: Imke De Kock, Stellenbosch University, South Africa Remote link: Room 105 on Microsoft Teams	Chair: Matjaz Vidmar, The University of Edinburgh, United Kingdom Remote link: Room 106 on Microsoft Teams Foreign direct investment and host firms' technology development: The moderating role of overall and STEM education Jihoon Shin ¹ , Miguel Amaral ² , Ana

Bam

methodology

Michael Jacobus Du Plessis, Wouter Gideon

Human-in-the-loop:

Explainable or

intelligence by

accurate artificial

Supported by the City of

Remote Link: Auditorium

Nancy, Territoria, RNI

1: Carnegie Mellon University, United

States of America; 2: Instituto Superior

Cristina Barros³, M. Granger

Morgan¹

	Stellenbosch University, South Africa	exploiting human bias?	Técnico, Portugal; 3: INESC TEC, Portugal
	Technology transfer, productive restructuring, and reindustrialization	Laura Valtonen ¹ , Saku J. Mäkinen ² 1: Tampere University, Finland; 2: University of Turku, Finland	The Difference between Exporter and Non-exporter Knowledge-based firms; Capabilities Analysis Approach
	processes. Experience of the Mexican Bajio region	Assessing the effectiveness of the	Case study: Knowledge-based firms in the sector of chemical technology
	Lorena del Carmen Álvarez-Castañón¹, Pilar Arroyo-López², Rocío Alfonsina Lizarraga- Morales¹, Gema González-Romero³ 1: Universidad de Guanajauto; 2: Tecnológico de Monterrey, EGADE Business School; 3: Universidad de Sevi	scrum framework and its successful implementation Mmule Rebecca Madumo, Kwete Mwana Nyandongo University of Johannesburg, South Africa	Mohammad Torabi Kharqh¹, Seyed Reza Mirnezami², mitra samadi³, Mohammad Sadegh Khayatian⁴ 1: University of Tehran, Iran, Islamic Republic of; 2: Sharif University of Technology, Iran, Islamic Republic of; 3: Sharif University of Technology, Iran, Islamic Republic of; 4: Shahid Beheshti University, Iran, Islamic Republic of
	Interconnection of freight delivery transport service networks Aurelija Burinskienė Vilnius Gediminas technical university, Lithuania	Towards a Protocol for Preference Evaluation of Cosmetic Products Using Physiological Sensors Javier Miranda-Mellado ¹ , Juliana Serna ¹ , Giovanny Arbelaez-Garces ¹ , Javier A. Arrieta-Escobar ² ,	Management of Technological Convergence in New Technology-Based Firms Leandro Lepratte, Rafael Blanc, Daniel Hegglin, María Alejandra Rodriguez, Leonardo Ruhl Universidad Tecnológica Nacional, Argentine Republic
	THE ROLE OF DEDICATED ORGANIZATIONS IN THE GOVERNANCE OF SMART CITY DEVELOPMENT: A	Véronique Sadtler ² , Mathieu Kacha ³ 1: Equipe de Recherche des Processus Innovatifs (ERPI-ENSGSI), Université de Lorraine, France; 2: Laboratoire Réactions et Génie des Procédés (CNRS-I RGP-ENSIC)	An Empirical Analysis of High Technology Manufacturing Segments of India's Export sector Amrutha Mary Varkey University of Warsaw, Poland
	MULTIPLE CASE STUDY Guilherme Freitas Camboim, Nathália Amarante Pufal, Denise Barbieux, Paulo Antonio Zawislak NITEC/UFRGS, Brazii	Université de Lorraine, France; 3: Centre Européen de Recherche en Économie Financière et Gestion des Entreprises (CEREFIGE), Université de Lorraine, France	EMPIRICALLY TESTING THE
		Assessment Model to Support the Technological Integration within Industrial Companies in the Context of Industry 4.0 Neal Widmer, Alaa Hassan, Davy Monticolo Equipe de Recherche sur les Processus Innovatifs, Université de Lorraine, France	Naik ² 1: Jindal Global Business School; 2: NITIE Mumbai
ENG10-1: Industrial Internet & Industry 4.0 Location: Room 202 - Centre Prouvé Chair: Abdul Rahman Abdel	ENG3-1: Service Design and Engineering Location: Room 203 - Centre Prouvé	ENG8-1: Innovation on Education and Learning Location: Room 204 - Centre Prouvé	

Razek, FARO Technologies Europe GmbH, Germany Remote link: Room 202 on Microsoft Teams	Chair: hakim boudaoud, Université de Lorraine, France Remote link: Room 203 on Microsoft Teams	Chair: Alex Gabriel, Université de Lorraine, France Remote link: Room 204 on Microsoft Teams		
The Role of Data within The Service Prototyping Design Dimensions Abdul Rahman Abdel Razek³, Daniela Fehrenbach¹, Marc Pallot², Christian van Husen¹, Simon Richir² 1: Furtwangen University.	Analysis of Impact of Maintenance Practices on Road Infrastructure Khumbelo Bele, Megashnee Munsamy, Arnesh Telukdarie University of Johannesburg, South Africa	Contribute to Open Science with Research-based Learning: Explorative Research Action Study applied to Peer- to-Peer Energy Trading Alex Gabriel, Laurent Dupont		
Germany; 2: Arts et Métiers ParisTech; 3: FARO Technologies	Assessment of the	Université de Lorraine, France	_	
The Integration of Industry 4.0 in Healthcare Quality Improvement Eveth Nkeiruka Nwobodo-Anyadiegwu,	Speed Humps as Traffic Calming for Accident Reduction in Durban, South Africa Lemo Andrew Monyatsi Road Traffic Management Corporation, South Africa	Gamification for Smart and Collaborative Last Mile Networks Knowledge Transfer Anna-Maria Nitsche ^{1,2} , Bogdan Franczyk ^{1,3} ,		
Deborah Baraka Tambwe, Alice Kabamba Lumbwe University of Johannesburg, South Africa	Evaluating the understanding of Personal Data Privacy in Brazilian financial institutions from the perspective of	Christian-Andreas Schumann ² 1: University of Leipzig, Germany; 2: University of Applied Sciences Zwickau, Germany; 3: Wrocław University of Economics, Poland		
Collaborative Filtering for Mobile Application Recommendation with Implicit Feedback Beatriz Paula ^{1,6} , João Coelho ^{1,6} , Diogo Mano ^{1,7} , Carlos Coutinho ^{1,2,3} , João Oliveira ^{2,3,4} , Ricardo Ribeiro ^{3,5} , Fernando	consultants Marcelo T Okano ¹ , lamara Ferreira ² , Edson Luiz Ursini ³ , <u>Henry de Castro Lobo dos Santos³</u> 1: UNIP, CEETEPS and FT UNICAMP, Brazil; 2: CEETEPS; 3: FT UNICAMP	Assisted Reality as an enabler for resilient remote learning during COVID-19 Thomas Kogias ¹ , Adrian Butnaru ² , Frank Waszink ³ , Jan Smallegange ² , Nikolaos		
1: Caixa Mágica Software, S.A., Portugal; 2: Information Sciences, Technologies and Architecture Research Center (ISTAR-IUL); 3: Iscte - Instituto Universitário de Lisboa; 4: Instituto de Telecomunicações (IT); 5: INESC-ID; 6: Instituto Superior Técnico, 7. Faculdade de Ciências da Universidade de Lisboa	Improving maintenance management of reservoir structures using smart systems Lebogang Makama, Arnesh Telukdarie University of Johannesburg, South Africa	Gavalakis ¹ , Elias Xidias ¹ , Dimitris Zissis ¹ 1: Department of Product & Systems Design Engineering, Polytechnic School, University of the Aegean; 2: Innovation and Educational Development Department, STC Group; 3: Rotterdam Mainport Institute, STC Group Virtual laboratory, a		
Supporting circular economy in healthcare through digital reverse logistics Getnet Bogale Fanta, Leon Pretorius Department of Engineering and Technology		learning resource for distance education Daniel Galvez, Lorena Delgado, Christopher Caceres, Lucas Villarroel University of Santiago, Chili, Chile		

4:00pm -	Coffee Break Location: Foyer 850 (Hall)) - Centre Prouvé				
4:30pm	,	,				
-	Serious Game: "L'année d	e l'innovation"				
4:00pm -						
- 6:00pm	Location: Foyer 850 (Hall) - Centre Prouvé Chair: Alice de Casanove, Universite Lorraine, United States of America					
o.oopiii		Innovation Way & ISO; Alice de				
	Max 36 people (add to your adg	•				
4:30pm	RT-03: Meet the Editors	IE10: Responsible Research and Innovation	IE9: Research and Innovation in Creative	TEC5: Artificial Intelligence & Big Data		
-	Location: Auditorium 300	Location: Room 103 -	Industries	Location: Room 105 - Centre		
6:00pm	- Centre Prouvé Chair: Breno Nunes,	Centre Prouvé	Location: Room 104 -	Prouvé		
	University of Aston, United	Chair: Geerten van de Kaa.	Centre Prouvé	Chair: Giovanny Arbelaez-Garces,		
	Kingdom	Delft University of Technology,	Chair: BHUKYA	Université de Lorraine, France		
	Chair: Manon Enjolras , Université de Lorraine - ERPI,	Netherlands, The	KOTESWARARAO NAIK,	Remote link: Room 105 on Microsoft Teams		
	France	Chair: Fedoua KASMI , Université de Lorraine, France	NATIONAL INSTITUTE OF INDUSTRIAL ENGINEERING.			
	Meet 6 editors for 6 journals!	Chair: Vincent BOLY,	India	Telecommunications Customer		
	Remote Link: Auditorium	Université de Lorraine / ERPI,	Remote link: Room 104 on	Service Improvement Through		
		France Remote link: Room 103 on	Microsoft Teams	Big Data Analytics		
		Microsoft Teams		Thabile Shongwe ¹ , Masike Malatji ² ,		
			Towards an analytical	Jan-Harm Christiaan Pretorius ¹		
		Responsible Research	framework to analyze	1: Postgraduate School of Engineering		
		and Responsible	the evolution of	Management, University of Johannesburg, South Africa; 2:		
		Innovation: Have new	manufacturing	Graduate School of Business		
		concepts emerged?	innovation systems	Leadership, University of South Africa,		
		Akbar Mohammadi ¹ ,	Michelle McClelland ¹ ,	South Africa		
		Sahar Babaei ²	Sara S Grobbelaar², Natasha Sacks¹			
		1: Tehran University; 2:	1: Department of Industrial			
		Allameh Tabatabaei	Engineering University of	The Impact of Interactive		
		University	Stellenbosch AND DSI-	technology by using Artificial		
			NRF Centre of Excellence	Intelligence on the Formation of		
			in Strong Materials (CoE-	Social Interactions: A Study in		
		Analysis of innovation	SM); 2: Department of Industrial Engineering	Tourism Industry 4.0		
		phases in the different	Stellenbosch University	Seyede Rojin Sobhani¹, Negar		
		AM future scenarios	AND DSI-NRF Centre of	Armaghan ² , Saeed Haghir ¹ , Ali		
		Marianne Hörlesberger ¹ ,	Excellence in	Andaji Garmaroodi ¹		
		Brigitte Kriszt², Andrea	Scientometrics and	1: School of Architecture, College of		
		Kasztler ¹	Science, Technology, and	Fine Arts, University of Tehran, Iran; 2:		
		1: AIT Austrian Institute of	Innovation Policy (SciSTIP)	_ '		
		Technology. Austria: 2: Montanuniverstitaet		Development Studies, Iranian Research Organization for Science		
		Leoben, Austria		and Technology (IROST), Tehran, Iran		
		·	An empirical study on	,, , , , , , , , , , , , , , , , , , ,		
			the effects of leader			
		RRI and Digital	behaviour and	Big data Citizen-centred smart		
		Transformation in	resilience on	Big data Citizen-centred smart city governance. Evidence from		
		Grand Est Region	innovative work	Wuhan and the Coronavirus		
		_	behaviour	battle		
		<u>Marianne Hörlesberger</u> 1, Vincent Boly², Jean-	Kimaya Reddy, Kai-Ying			
		Jacques Bernardini ³ ,	Chan	DIDIER GRIMALDI Ramon LLull University, Spain		
		Lucia Gonzalez⁴	University of Pretoria,	Tranion Leui Oniversity, Spain		
		1: AIT Austrian Institute of	South Autod			
		Lechnology, Austria; 2:				
		Université de Lorraine; 3:		The Role of Management of		
		Grand E-nov+; 4:	A Teams Approach to	Technology (MOT) in Unlocking		
		MATERALIA	Idea Generation: An	Nations' Competitiveness in		
			Analysis of	Post Pandemic and Global		
			Personality and Team	Crises		
		Al governance and	Learning on Creativity	Mohamed Azzam, Tarek Khalil		
		ethics in public	Kai-Ying Chan, Precious	Nile University, Egypt		
		procurement: Bridging	Mokgala (D)			
		the gap between	University of Pretoria, South Africa			
		theory and practice				

		Timo Tapani von Behr, Mikko Siponen, Pekka Abrahamsson University of Jyväskylä, Finland	Research and scientific production in COVID - 19 in Argentina: analysis of bibliometric data	Computer-assisted Career Guidance Systems User Impact: An Evaluation study fatima ezzahra hamdani, marie gribouval, barbara moissa, davy monticolo, vincent boly
		Exploring extended outcomes of co-creation applied for Responsible Research and Innovation	Miguel Guagliano, Adriana Sanchez Rico Ministry of Science, Technology and Innovation - Argentina, Argentine Republic	erpi, France
		Felicitas Schmittinger, Francesca Rizzo, Alessandro Deserti Politecnico di Milano, Italy	Grass-root Innovation Ecosystem - an Indian case	-
			Bhukva Koteswararao Naik¹, Ajit Kumar¹,², Karuna Jain³, Anil Kumar⁴, Gautam Prakash⁵ 1: National Institute of	
			Industrial Engineering (NITIE) Mumbai; 2: JBS, JIIT NOIDA, India; 3: Shailesh J Mehta School of Management (SJSOM), IIT Bombay; 4: Tata Institute of Social Sciences (TISS) Mumbai; 5: Tata Consultancy Services	
	IE7-3: R&D, Innovation	ENG10-2: Industrial	NOIDA NOIDA, India ENG8-2: Innovation on	
	and Entrepreneurship	Internet & Industry 4.0	Education and Learning	
	Location: Room 106 -	Location: Room 202 -	Location: Room 204 -	
	Centre Prouvé Chair: Matjaz Vidmar, The	Centre Prouvé Chair: Regina Negri Pagani,	Centre Prouvé Chair: Alex Gabriel, Université	
	University of Edinburgh, United	Federal University of	de Lorraine, France	
	Kingdom Remote link: Room 106 on	Technology, Paraná (UTFPR), Brazil	Remote link: Room 204 on Microsoft Teams	
	Microsoft Teams	Remote link: Room 202 on	WICIOSOTT TEATTS	
		Microsoft Teams	Designing the	
	Systematic Literature	0	curriculum of the	
	Review on Corporate	Support from	nackaging decign	
	Accelerator: Benefits,	(invernance	packaging design	
		Governance, Leadership and Smart	course based on the	
	Challenges and Critical Success	Governance, Leadership and Smart People in the context	course based on the active learning	
	Challenges and	Leadership and Smart People in the context of Smart Cities	course based on the active learning Narucha Tanaiutchawoot	
	Challenges and Critical Success Factors Caroline Rodrigues da	Leadership and Smart People in the context of Smart Cities Development	course based on the active learning	
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz	course based on the active learning Narucha Tanaiutchawoot Suranaree University,	
	Challenges and Critical Success Factors Caroline Rodrigues da	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apr ^a	course based on the active learning Narucha Tanaiutchawoot Suranaree University,	-
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apr ^a Ribeiro Ferras, Juliana	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e-	-
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva,	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apra Ribeiro Ferras, Juliana Vitória M. Bittencourt,	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e- Learning user	-
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apr ^a Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani Federal Technological	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e- Learning user satisfaction at a South	-
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de Resende, Rui Tadashi	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apra Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e- Learning user	-
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apr ^a Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani Federal Technological	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e- Learning user satisfaction at a South African University of Technology Nhlanhla W. B. Mlitwa,	
	Challenges and Critical Success Factors Caroline Rodriques da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de Resende, Rui Tadashi Yoshino, Fernanda Tavares Treinta Federal University of	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apra Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani Federal Technological University of Paraná, Brazil	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e- Learning user satisfaction at a South African University of Technology Nhlanhla W. B. Mlitwa, Oluwamayowa O.	-
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de Resende, Rui Tadashi Yoshino, Fernanda Tavares Treinta Federal University of Technology (UTFPR) -	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apra Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani Federal Technological University of Paraná, Brazil Contribution of an IoT	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e- Learning user satisfaction at a South African University of Technology Nhlanhla W. B. Mlitwa, Oluwamayowa O. Ogundaini	-
	Challenges and Critical Success Factors Caroline Rodriques da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de Resende, Rui Tadashi Yoshino, Fernanda Tavares Treinta Federal University of	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apra Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani Federal Technological University of Paraná, Brazil	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e- Learning user satisfaction at a South African University of Technology Nhlanhla W. B. Mlitwa, Oluwamayowa O.	-
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de Resende, Rui Tadashi Yoshino, Fernanda Tavares Treinta Federal University of Technology (UTFPR) -	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apra Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani Federal Technological University of Paraná, Brazil Contribution of an IoT based cloud platform	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e-Learning user satisfaction at a South African University of Technology Nhlanhla W. B. Mlitwa, Oluwamayowa O. Ogundaini University of South Africa Gradaute School of Business Leadership,	-
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de Resende, Rui Tadashi Yoshino, Fernanda Tavares Treinta Federal University of Technology (UTFPR) - Paraná, Brazil	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apra Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani Federal Technological University of Paraná, Brazil Contribution of an IoT based cloud platform in the realization of data-driven in-house logistics	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e-Learning user satisfaction at a South African University of Technology Nhlanhla W. B. Mlitwa, Oluwamayowa O. Ogundaini University of South Africa Gradaute School of	
	Challenges and Critical Success Factors Caroline Rodrigues da Silva, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de Resende, Rui Tadashi Yoshino, Fernanda Tavares Treinta Federal University of Technology (UTFPR) -	Leadership and Smart People in the context of Smart Cities Development Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apra Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani Federal Technological University of Paraná, Brazil Contribution of an IoT based cloud platform in the realization of data-driven in-house	course based on the active learning Narucha Tanaiutchawoot Suranaree University, Thailand Determinants of e-Learning user satisfaction at a South African University of Technology Nhlanhla W. B. Mlitwa, Oluwamayowa O. Ogundaini University of South Africa Gradaute School of Business Leadership,	

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	Effectual Decision- Making Canvas	1: KTH Royal Institute of Technology, Sweden; 2:	Components of digital	
	Marcos Antonio	BIBA, Germany	assistants in higher education	
	González ^{1,2} , Orestis		environments	
	Terzidis ¹ , Benedict Heblich ¹		Sophie Henne, Vanessa	
	1: Karlsruhe Institute of	Forward kinematic	Mehlin, <u>Elena Schmid</u> ,	
	Technology, Germany; 2:	based approach using sensor fusion for	Sigurd Schacht University of Applied	
	Universidad Austral de Chile	tracking the human	Science Ansbach,	
	Crille	limb	Germany	
		Arthur Johnson ¹ , Aswin		
	Migrant Work	K Ramasubramanian², Robins Mathew², Brian		
	Inclusion: Designing	Mulkeen ¹ , Nikolaos	Digital Learning	
	Research on	Papakostas²	Readiness of higher education institutions	
	Entrepreneurship	School of Electrical and Electronic Engineering,	in the 4th industrial	
	Support	University College Dublin,	revolution era during	
	Yngve Dahle ¹ , Kevin Reuther ² , <u>Dimitris</u>	Ireland; 2: School of	the COVID-19	
	Polychronopoulos ¹ , Anh	Mechanical and Materials Engineering, University	pandemic, Case of a	
	Nguyen Duc¹, Lars Ueland Kobro¹	College Dublin, Ireland	University in South Africa	
	1: University of South-		Eric Mikobi Bakama,	
	Eastern Norway; 2: Leipzig		Charles Mukwakungu	
	University, Germany	Preliminary approach	Sambil, Nita Sukdeo	
		to the functionality of	University of Johannesburg, South	
	Calf Assessment	a technical remote sensing platform	Africa	
	Self-Assessment Model based on the	applied to agriculture		
	ISO 56002:2019	in the Colombian case		
	Standard for	Sandra Cecilia Bautista-	What do we learn in a	
	Evaluating linnovation	Rodríquez, Francy Pascagaza, Freddy Díaz,	living lab ?	
	Management Systems	Victoria Vallejo	Valentine Labouheure, Raphaël Bary, Laure	
	of Science and Technology	Universidad Central,	Morel	
	Institutions	Colombia	ERPI- Université de	
	MICHELLE SANTOS,		Lorraine, France	
	MARIA F ALMEIDA	The Impact of Total		
	Pontifical Catholic University of Rio de	Productive		
	Janeiro, Brazil	Maintenance on		
		Performance in The		
		South-African Food		
		Manufacturing Industry		
		Andre Vermeulen,		
		Jacques Weidemann, Jan		
		Harm C Pretorius		
		University of Johannesburg, South		
		Africa		
6:30pm	IAMOT Board Meeting 02		-	
-	Location: Lorraine Fab Li	ving Lab		
8:00pm	=	oulevard d'Austrasie - 54000 NAN	CY	
	How to access (google map)? or from Congress center			
7:00pm				
44.50:	Location: Streets of Nanc	•	- Martin de la marchi de 1000 la 100	- -
11:59pm	Programme from the City of Na	ancy https://www.nancy.fr/culturelle	e/rete-ae-ıa-musique-4359.html (ir	ı French)

Date: Wednesday, 22/June/2022				
8:00am				
- 9:00am	Location: Entrance / Registration Desk - Centre Prouvé Join ICE-IAMOT conference at Prouvé Convention Center - 1, place de la République CS 60663 - 54063 NANCY Cedex			
0.000	Venue on the ICE-IAMOT website / How to join us - move in Nancy (google map)			
9:00am	RT-02: EU projects Round Table			
- 10:30am	Location: Auditorium 300 - Centre Prouvé Chair: Laurent DUPONT, Université de Lorraine, France "Open innovation, technologies & communities as enablers of socio-economical transition"			
	Remote Link: Auditorium			
10:30am -	Coffee Break Location: Foyer 300 (small Hall) - Centre Prouvé			
11:00am				
11:00am -	WS01: Co-designing Open innovation,	Climate Labs (closed event)	IE12: Tech- & Digital Entrepreneurship Location: Room 105 - Centre Prouvé	WS03: Responsible digitalization: the
12:30pm	technologies & communities to	Location: Room 103 &	Chair: Clarice Bertin, ICN Business School & BETA Research Center, France	example of the DigiTeRRI project
	enable socio-	104 - Centre Prouvé	Remote link: Room 105 on Microsoft Teams	Location: Room 106 -
	economical transition - Pratices and actions		Digital Fit(ness) – is 'being in a fit with'	Centre Prouvé Chair: Monticolo Davy,
	with EU projects		enough?	Université de Lorraine, Réunion (France)
	Location: Auditorium 300 - Centre Prouvé		Erich Heumüller, <u>Julia Kossowski</u> ,	Chair: Vincent BOLY, Université de Lorraine /
	Chair: Ivo Zeller, Steinbeis Europa Zentrum, Germany		Sebastian Richter Baden-Wuerttemberg Cooperative State	ERPI, France
	Workshop open to all -		University Stuttgart, Germany	•RRI definition •Implementation of
	Transforming industry and territories by engaging the		Local Ecosystem Open Innovation	Responsible Digitalization: - the necessary adaptation
	international ICE-IAMOT community in European		Intermediaries as Key Enablers for the	to the context •Territorial strategy for
	projects: DIY4U, iProduce, INEDIT, OpenNext.		Development of Incumbents' Digital Technology Partnerships	Responsible Digitalization implementation: the
	Practical information on		Clarice Bertin ^{1,3} , Véronique Schaeffer ^{2,3}	methodologies (roadmapping and vision
	the Octroi Nancy demonstrators to prepare		1: ICN Business School; 2: University of	definition) and the roadmap presentation of
	your living lab experience in the immersive design		Strasbourg; 3: BETA Research Center	three european territories •Practices and actions to
	factory Remote Link: Auditorium		The e.DO Cube Hackathon –	stimulate Responsible Digitalization in 3 regions:
			Transitioning to Graduate School	Styria / Vârmland / Grand
			Brendan Sullivan¹, Monica Rossi¹, Lucia Ramundo², Paolo Rosa¹, Sergio Terzi¹	Remote link: Room 106 on
			1: Politecnico di Milano, Italy; 2: EIT	Microsoft Teams
			Manufacturing	
			The entrepreneurial function in digital	
			entrepreneurial ecosystems. The resource potential of the innovative	
			entrepreneur Analysis based on the	
			founders of the top five digital social networks (Facebook, Youtube,	
			Whatsapp, Messenger and Instagram)	
			Sophie Boutillier ¹ , Dimitri Uzunidis ²	
			1: University of Littoral Côte d'Opale, France; 2: University of Littoral Côte D'Opale, France	
12:30pm -	Lunch Location: Foyer 300 (small Hall) - Centre Prouvé			
1:30pm				
1:30pm -	Communte to Octroi Nancy Location: Petite Halle - Octroi Nancy			
2:00pm	map on the website - Here the link for Google Maps			
	by walking and visiting Nancy allow 25 min by tram: request a transport ticket from the registration desk			
1:30pm	Climate Labs (closed event)			
- 6:00pm	Location: Room 103 & Room 104 - Centre Prouvé			
6.00pm				

1:30pm

WS02: HyValue Workshop

Location: Auditorium 300 - Centre Prouvé

4:15pm

Chair: Robert Bierwolf, IEEE TEMS, Netherlands, The Chair: Monticolo Davy, Université de Lorraine, Réunion (France)

- 13:30 Robert Bierwolf Towards PM2030 Research through Project Management
- 13:45 Anna Schidek Agilization in MedTech
- 14:00 Phillip Hansen Fuzzy Expert System for Estimation
- 14:15 Markus Schmidtner PM Context Modeling
- 14:30 Holger Timinger Weighting of project management process parameters

14:40 coffee Break

- 15:00 1 Hour HyValue Presentation (20 Min incl. 5 min discussion each)
- 15:00 Markus Schmidtner Interorganizational Project Management in the automotive Industry
- 15:20 Alexander Ziegler- From Cooperation to Collaboration: Sociological Insights into Digital Collaboration Platforms in the Automotive Value Chain
- 15:40 Kirsten Hentschl & Andreas Trautheim-Hofmann Digital Transformation of Project Schedule Management and Synchronization (PSMS) in Collaboration Networks
- 16:00 Open Discussion
- 16:15 End of Workshop

Remote Link: Auditorium

Agilization of technical development processes for medical devices

Anna Schidek, Holger Timinger

University of Applied Sciences Landshut (Institute for Data and Process Science), Germany

Concept of a Fuzzy Expert System for Story Point Estimations in Agile Projects

Philipp Hansen^{1,2}, Holger Timinger^{1,2}

1: Landshut University of Applied Sciences, Germany; 2: Institute for Data and Process Science

Supporting the Development of a Mobile Context-Aware Application by an MDA-based Approach

Julian Dörndorfer, Markus Schmidtner

University of Applied Sciences, Germany

Influence of Project Parameters on the Decision of an Agile or Plan-based Approach

Markus Schmidtner, Holger Timinger, Claudia Doering, Finn Reiche

HAW Landshut, Germany

From Cooperation to Collaboration: Sociological Insights into Digital Collaboration Platforms in the Automotive Value Chain

Alexander Ziegler, Eckhard Heidling

Institute for Social Science Research Munich, Germany

2:00pm

Exhibition (EU projects): Innovative Design Factory in the city by INEDIT, DIY4U, iPRODUCE, OPEN_NEXT

Location: Petite Halle - Octroi Nancy

6:00pm

Chair: Laurent DUPONT, Université de Lorraine, France Chair: Robert Mies, Technische Universität Berlin, Germany

Chair: Chandana Ratnayake, SINTEF AS, Norway

Chair: Manuel Sánchez de la Asunción, AIDIMME, Spain

Demonstrator in Living lab mode at Octroi Nancy (Cultural and creative third place) + networking (open to all & citizens & local industries / SMEs): • INEDIT project & Do It Together process: from Co-creation to open manufacturing; • Open_Next pilots & booth; • iProduce software & booth: • DIY4U booth

Commute to Octroi Nancy

4:15pm

Communte to Octroi Nancy (after HyValue WS)

Location: Petite Halle - Octroi Nancy

4:40pm

map on the website - Here the link for Google Maps

by walking and visiting Nancy allow 25 min

by tram: request a transport ticket from the registration desk

7:45pm

Social Event 2: GALA DINNER

Location: Hotel de Ville de Nancy (City Hall)

Speech by the Mayor of Nancy / Awards / Sound and light "Rendez-vous Place Stanislas"

Dishes made with local producers

(Access by registration only) How to join us / move in Nancy

https://www.google.com/maps/d/edit?mid=1qYCByo6cg4Meqk1aQow9rfPGgsUOtV_9&usp=sharing

Date: Thursday, 23/June/2022

9:00am - EU Workshop: INEDIT (closed event)
Location: Lorraine Fab Living Lab
11:30am

9:30am Immersive Conf: Social innovation labs to mitigate and adapt to climate change
Location: Petite Halle - Octroi Nancy

11:00am Chair: Fabio Cruz Sanchez, Université de Lorraine, France

Chair: Ferney Osorio, UNIVERSITÉ DE LORRAINE, France Chair: Laure Morel, Université de Lorraine, France

Strengthening applied research and innovation capacities in Latin-America through co-creation labs for mitigation and adaptation to Climate

Change

Climate Labs Posters + Networking session + Scientific demonstrators

11:00am Plenary: ICE-IAMOT closing session
Location: Petite Halle - Octroi Nancy

12:30pm General Assembly: Future of Technology, Engineering, and Innovation Management Communities

Special Guest: Hélène Boulanger, presidente de l'Université de Lorraine.

Details of the sessions

IE5: Intrapreneurship & Corporate Venturing

Time: Monday, 20/June/2022: 11:00am - 12:30pm · Location: Room 103 - Centre Prouvé Session Chair: Fabio Cruz Sanchez, Université de Lorraine, France

Organizational and Personal Self-Concept and their Moderating Relationships as Determinant to Entrepreneurial Orientation

Charl David Theron, Elma Van der Lingen

University of Pretoria, South Africa

Why Companies Implement Multiple Corporate Entrepreneurship Units

Nicolai Heinzelmann¹, J. Roland Ortt², Guido H. Baltes¹ HTWG Konstanz, Germany; ²Delft University, Netherlands

Uncovering goals of corporate entrepreneurship: A classification based on literature review

Christina Lang¹, Isabella Fitzky¹, J. Roland Ortt², Guido H. Baltes¹

¹Institute for Strategic Innovation & Technology Management, HTWG Konstanz, Germany; ²Faculty of Technology, Policy and Management, Delft University of Technology

Intrapreneurship and corporate entrepreneurship: an integrated operational and strategic model from dynamic capabilities approach

JOSE CARLOS CURIEL FRANCO, MIRIAM DELGADO VERDE

UNIVERSIDAD COMPLUTENSE DE MADRID, Spain

IE6-1: Living-Labs & Open-Innovation

Time: Monday, 20/June/2022: 11:00am - 12:30pm · Location: Room 104 - Centre Prouvé Session Chair: Laure Morel, University de Lorraine, France

Unfolding innovation lab services in public hospitals: a hospital FabLab case study

<u>Ambre Scarmoncin</u>¹, Clothilde Portelli², Ferney Osorio³, Guillaume Eckerlein¹

1APHP Paris Saclay; ²Humaniteam Design; ³ERPI, Université de Lorraine

On the Use of Low-Code and No-Code Tools for Teaching Data Science in Applied Industrial and University Settings

Martin Dobler¹, Jürg Meierhofer², Klaus Frick³, Marcus Bentele¹

¹Vorarlberg University of Applied Sciences, Austria; ²ZHAW School of Engineering; ³OST Eastern Switzerland University of Applied Sciences

Collaborative networks between innovation spaces

<u>Fanny Pruvot</u>, <u>Laurent Dupont</u>, <u>Laure Morel</u> Laboratoire ERPI, France

The Integration of Industrial Design in the Fuzzy Front-End - FFE

<u>Lilian Schreiner Módolo</u>¹, Paulo Tromboni de Souza Nascimento²

¹USP, Brazil; ²USP, Brazil

IE11-3: Sustainability in Innovation & Entrepreneurship

Time: Monday, 20/June/2022: 11:00am - 12:30pm · Location: Room 105 - Centre Prouvé Session Chair: Manon Enjolras, Université de Lorraine - ERPI, France

Evaluating the drivers of frugal innovation and its relation to sustainability – A Systematic Literature Review

<u>Tsireledzo Maliehe</u>, Schalk Grobbelaar

Department of Engineering and Technology Management, University of Pretoria, South Africa

The influence of circular economy implementation on competitiveness in manufacturing companies <u>Ulla Anneli Saari</u>¹, Matthias Schneider², Svenja Damberg², Leena Aarikka-Stenroos¹, Minna Lanz³, Cornelius Herstatt², Christian M. Ringle⁴

¹Industrial Engineering & Management, Tampere University, Finland; ²Institute for Technology & Innovation Management, Hamburg University of Technology, Germany; ³Automation Technology & Mechanical Engineering, Tampere University, Finland; ⁴Institute of Human Resource Management & Organizations, Hamburg University of Technology, Germany

Identification of Critical Success Factors for Circular Start-ups 4.0: A literature review

<u>Bruno Alcantara Rodrigues</u>, Fernanda Tavares Treinta, Fabio Neves Puglieri Federal University of Technology (UTFPR) - Paraná, BR, Brazil

A Research Framework for B2B Green Marketing Innovation: the Design of Sustainable Websites Pauline Lacom^{1,2}, Sylvain Sagot^{2,3}

¹LISI Automotive, Grandvillars 90600, France; ²ERCOS Research Group, ELLIADD Laboratory (E.A. 4661), UBFC; ³ESTA Belfort, School of Business and Engineering, Belfort 90000, France

TEC8: Robotics & Autonomous Systems / Cyber Physical Systems (CPS)

Time: Monday, 20/June/2022: 11:00am - 12:30pm · Location: Room 106 - Centre Prouvé Session Chair: Klaus-Dieter Thoben, BIBA - Bremer Institut für Produktion & Logistik, Germany

Digitization technologies in transport logistics: A systematic literature review protocol

<u>John-Dean Kasher</u>, Simon Riedle, Navid Julian Sardarabady DHBW Ravensburg Campus Friedrichshafen, Germany

Validation of vehicles with automated features through the detection of behavioral differences between humans and machines

Manuel Schwarz, Luc Rolland, James Bruce Johnston

University of West Scotland, United Kingdom

Identifying real-world problems with automated vehicles by detecting behavioral differences in steering movements between the human driver and machine

Manuel Schwarz, Luc Rolland, James Bruce Johnston
University of West Scotland, United Kingdom

A Model for Selecting Emerging Technologies Apps for Intelligent ERP

<u>Ahmed Mohamed Abdelrahman Fayed</u>, Mohamed Omar Ezzat

Nile Universty, Egypt

ENG2: Energy Supply and Energy Utilities

Time: Monday, 20/June/2022: 11:00am - 12:30pm · Location: Room 204 - Centre Prouvé Session Chair: Yacine Rezgui, Cardiff University, United Kingdom

A Conceptualisation for the Integration and Evaluation of Gender Mainstreaming in Energy Project Development

<u>Lelani Oosthuizen</u>, Imke H. De Kock, Josephine K. Musango Stellenbosch University, South Africa

Case study on the impact of engineering changes during power plant construction

Phetheni Mhlongo, <u>Megashnee Munsamy</u>, Jan-Harm Christiaan Pretorius

University of Johannesburg, South Africa

Overview of challenges and requirements for sustainable energy transition in Western Balkans with focus on BH: A literature review

<u>Damir Androsevic</u>, Mauricio Camargo, Noureddine Takorabet, Mustafa Music Universite de Lorraine

INFRASTRUCTURE PROJECTS IN SUB SAHARAN AFRICA, SENSITIVITY TO POLITICAL RISKS

Noah Ogano¹, Leon Pretorius²

¹Strathmore University, Kenya; ²University of Pretoria, South Africa

ENG12-1: SCM 4.0

Time: Monday, 20/June/2022: 11:00am - 12:30pm · Location: Room 205 - Centre Prouvé Session Chair: Kulwant Pawar, Nottingham University, United Kingdom

Modelling manufacturing process flexibility: A systematic review

<u>Marike Spamer</u>, Louzanne Bam Stellenbosch University, South Africa

IoT system for the validation of conditions in shipping couriers

Pedro Miguel Moreira Filipe¹, Bruno Mataloto², Carlos Coutinho²

¹ISCTE - Instituto Universitário de Lisboa, Portugal; ²Information Sciences, Technologies and Architecture Research Center (ISTAR-IUL), Portugal

Security Inspection Framework and its Application to Use Cases

Yuto Nakano, Yasuaki Kobayashi, Takao Kojima, Yutaka Miyake, Shinsaku Kiyomoto KDDI Research, Japan

IE4-1: Human, Socio-Economic and Culture Issues

Time: Monday, 20/June/2022: 2:30pm - 4:00pm · Location: Room 103 - Centre Prouvé Session Chair: Fedoua KASMI, Université de Lorraine, France

Turnover Intention of High-Tech Industry Managers: A Push-Pull-Mooring Model

<u>Chih-Hung Hsieh</u>, Cheng-Ru Hu, Chu-Yun Teng College of Management, Yuan Ze University, Taiwan

Implementing the systemic approach supporting territorial resilience: the case of the 'Toile' tool.

Mathilde SCHWOB¹, <u>Fedoua KASMI</u>¹, Laurent DUPONT¹, Jean-François VEREECKE², Claudine GUIDAT¹

¹Université de Lorraine, ERPI Laboratory, France; ²Agence d'Urbanisme et de Développement de la Région Flandre-Dunkerque (AGUR), France

A literature-based categorization model of individual innovation capabilities to boost organizations' innovation capacities

<u>Mariela Martinez</u>, Laure Morel, Manon Enjorlas Univerisité de Lorraine, Costa Rica

IE6-2: Living-Labs & Open-Innovation

Time: Monday, 20/June/2022: 2:30pm - 4:00pm · Location: Room 104 - Centre Prouvé Session Chair: Laurent DUPONT, Université de Lorraine, France

User-centered prototypes-insights from a design thinking workshop series

Laura Christina Rehberg

University of Stuttgart, Germany

An investigation of design in virtual reality across the variation of training degree and visual realism Sylvain Fleury¹, Laurent Dupont², Noémie Chaniaud¹, Saadallah Tamazart², Benjamin Poussard¹, Geoffrey Gorisse¹, Simon Richir¹

¹Arts & Metiers Institute of Technology LAMPA, HESAM University F-53810 Change, France; ²Université de Lorraine ERPI F-54 000 Nancy, France

Designing a group decision-making tool under Living Lab project mode: The case of ConsensUs

Maxence Arnould¹, Manon Enjolras², Mauricio Camargo²

¹AgroParisTech - INRAE - UMR SILVA, Nancy, France; ²Université de Lorraine - ERPI, Nancy, France

IE11-1: Sustainability in Innovation & Entrepreneurship

Time: Monday, 20/June/2022: 2:30pm - 4:00pm · Location: Room 105 - Centre Prouvé Session Chair: Brunelle MARCHE, Université de Lorraine, France

Contributing to monitoring and evaluation practices by conceptualizing a Valuable Insights from Log Analysis (VILA) Framework.

Ane van Schalkwyk¹, Sara Grobbelaar², Euodia Vermeulen³, Marlien Herselman⁴

¹Department of Industrial Engineering, Stellenbosch University, South Africa; ²Department of Industrial Engineering, Stellenbosch University AND DSI-NRF Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy (SciSTIP) Stellenbosch University; ³Department of Industrial Engineering, Stellenbosch University, South Africa; ⁴Department of Industrial Engineering Stellenbosch University AND Next Generation Enterprises and Institutions CSIR Pretoria, South Africa

Building PSS-based circular business model canvases: an application in the waste from electrical and electronic equipment context

Claudio Sassanelli¹, <u>Paolo Rosa</u>², Sergio Terzi², Giorgio Mossa¹

1Politecnico di Bari, Italy; ²Politecnico di Milano, Italy

Household support to adopt preventive innovations to mitigate climate change: A case of Finnish apartment buildings

<u>Deborah Karen Kuperstein-Blasco</u>¹, Jussi Valta¹, Saku Mäkinen²

¹Tampere University, Finland: ²University of Turku, Finland

Enabling the citizen-driven renewable energy transition

Antonia Krebs, Björn Koch

COAST Centre for Environment and Sustainability Research, University of Oldenburg, Germany

TEC3-2: Technology on Education and Training

Time: Monday, 20/June/2022: 2:30pm - 4:00pm · Location: Room 202 - Centre Prouvé Session Chair: Raphaël BARY, Université de Lorraine, France

An Investigation into the Challenges and Solutions of e-learning in Tertiary Institutions during the COVID-19 Pandemic

Chandini Singh, Schalk Grobbelaar

Department of Engineering and Technology Management, University of Pretoria, South Africa

Experiences and challenges with pandemic online learning

Acelya Özkan, Katja Josenhans, Layana Berendt, <u>Ludwig Martin</u>
Pforzheim University, Germany

A Framework for Outsourcing Maintenance in the Era of Industry 4.0 within the Petrochemical Industry

Sello Mollo¹, Leon Pretorius², Jan Harm C Pretorius¹

¹University of Johannesburg, South Africa; ²University of Pretoria, South Africa

Adoption of mobile applications to improve the reading habits of rural readers in southern Africa's secondary schools.

Nkomo Sifundo¹, Walter Matli²

¹University of South Africa; ²University of South Africa

Is there education with the closed school? Long-term impacts on Emergency Remote Education (ERE)

Lilian Schreiner Módolo¹, Luiz Augusto Módolo², Edna Barbosa dos Santos³

¹USP, Brazil; ²USP, Brazil; ³Faculdades Dom Bosco, Brazil

ENG4-1: Sustainable Engineering

Time: Monday, 20/June/2022: 2:30pm - 4:00pm · Location: Room 203 - Centre Prouvé Session Chair: Alaa Hassan, Université de Lorraine, France

The Forest Industry and Development Within South Africa and Other Southern African Development Community Countries

Karen Louise Schmidt¹, Wouter Gideon Bam¹, Philani Nduna Zincume¹, Karolien De Bruyne^{1,2}

¹Stellenbosch University, South Africa; ²KU Leuven, Belgium

Impact of automation during innovative remanufacturing processes in circular economy

Perla Nohra¹, Helmi Ben Rejeb², Swaminath Venkateswaran³

¹Grenoble INP, CNRS University of Grenoble Alpes, France; ²Grenoble INP, CNRS University of Grenoble Alpes, France; ³Leonard de Vinci Pole Universitaire, France

Design of Circular Economy Enhancing Journeys for Automotive Manufacturing Industry

<u>Siro Dell'Ambrogio</u>, Silvia Menato, Jennifer Nika, Luca Canetta, Marzio Sorlini SUPSI

Sustainable Gardens for Smart Cities using Low-Power Communications

<u>Bruno Mota</u>, Bruno Mataloto, Carlos Coutinho ISCTE-IUL, Lisbon, Portugal

ECTP1: Smart Construction & Built Environment

Time: Monday, 20/June/2022: 2:30pm - 4:00pm · Location: Room 204 - Centre Prouvé
Session Chair: Alain ZARLI, ECTP & R2M Solution, France
Session Chair: Sylvain Kubicki, Luxembourg Institute of Science and Technology, Luxembourg

Designing Out the Risk of Infections via Aerosols by Updating Restrictions on Indoor Environments
Depending on Local Incidence Rates and the Dominant SARS-CoV-2 Strain

Ruth Wallace, Yacine Rezgui, Ali Ghoroghi Cardiff University, United Kingdom

Evidencing the correlation between training and energy efficiency through a sociotechnical perspective: use cases and measurable scenarios

Professor Yacine Rezgui¹, Dr. Ioan Petri², <u>Irini Barbero³</u>

¹Cardiff University; ²Cardiff University; ³Cardiff University

Implementation of a digital twin framework in the modular housing industry

<u>Anne Fischer</u>¹, Jorge Rodriguez Llorens¹, Zhen Cai¹, Michael Wilke², Stephan Kessler¹, Johannes Fottner¹

Technical University of Munich, Germany; ²Max Bögl Modul AG, Germany

ENG12-2: SCM 4.0

Time: Monday, 20/June/2022: 2:30pm - 4:00pm · Location: Room 205 - Centre Prouvé Session Chair: Mauricio Camargo, University of Lorraine, France

Quantifying the Environmental Impacts of Battery Electric Vehicles from a Criticality Perspective

<u>Fernando Penaherrera V.</u>¹, Maria Fernanda Davila Restrepo¹, Dr. Ing. Alexandra Pehlken¹, Björn Koch²

¹OFFIS e.V. - Institut für Informatik, Germany; ²Carl von Ossietzky Universität Oldenburg

Design of an optimised value creation network for zero emission ferries

<u>Jan-Philipp Disselkamp</u>¹, Tobias Seidenberg¹, Harald Anacker¹, Roman Dumitrescu²

¹Fraunhofer Research Institute for Mechatronic Systems Design IEM, Germany; ²Heinz Nixdorf Institute, University of Paderborn

Integrated Digital System in Planning, Scheduling and Logistics Processes at a Petroleum Company

Buhle Sihlali, Arnesh Telukdarie

University of Johannesburg, South Africa

IE4-2: Human, Socio-Economic and Culture Issues

Time: Monday, 20/June/2022: 4:30pm - 6:00pm · Location: Room 103 - Centre Prouvé Session Chair: DEYCY JANETH SANCHEZ PRECIADO, Halmstad University, Sweden

Determinants of Manpower Utilisation in Manufacturing Firms

Victor Oluwasina Sobanke

National Centre for Technology Management, Nigeria

ENABLING TRANSFER OF INTERMEDIATE TECHNOLOGIES - A RURAL BUSINESS PROJECT CASE IN RURAL COLOMBIA

DEYCY JANETH SANCHEZ PRECIADO

Centro Regional de Productividad e Innovación del Cauca - Halmstad University

Entrepreneurial Motivation: An Exploratory Study of Gender and Venture Types

Rebecca Off¹, Kevin Reuther², Guido Baltes¹

¹Konstanz University of Applied Sciences; ²University of Leipzig

Electricity Productivity in Socio-Economic Context: A Country-Level Analysis

<u>Heidy Noelia Montero Teran</u>¹, Matteo Bulleri², Diellza Salihu², Piotr Krawczyk¹, Marcin Topolewski³, Marc Pallot⁴

¹JAMK University of Applied Sciences, Finland; ²LUT University; ³Warsaw School of Economics SGH; ⁴Nottingham University Business School

IE6-3: Living-Labs & Open-Innovation

Time: Monday, 20/June/2022: 4:30pm - 6:00pm · Location: Room 104 - Centre Prouvé Session Chair: Marc Pallot, Arts & Metiers ParisTech, France

Investigate Innovation Intermediary in civilian space industry innovation network: a grounded theory study

Vahid Mohammadi, Mohammad Abooyee Ardakan, Manouchehr Manteghi

University of Tehran, Iran, Islamic Republic of

Aligning Open Engineering Practices

Matjaz Vidmar

The University of Edinburgh, United Kingdom

Smart Campus: Concepts, development and future

Juan Arenas¹, Pedro Palominos¹, Rodrigo Martin¹, Mauricio Camargo², Raphael Bary², Héctor Kaschel¹

¹Universidad de Santiago de Chile; ²University of Lorraine, France

IE11-2: Sustainability in Innovation & Entrepreneurship

Time: Monday, 20/June/2022: 4:30pm - 6:00pm · Location: Room 105 - Centre Prouvé Session Chair: Dominique Jolly, France

Exploring the demands of energy management service for the manufacturing firms

Phil Yang¹, Yichang Yang²

¹National Taichung University of Education, Taiwan; ²Shih Chien University, Taiwan

Implementing Lean Manufacturing as a Business Management Strategy to eliminate waste The case of an Automobile company

Eric Mikobi Bakama, Charles Mukwakungu Sambil, Nita Sukdeo

University of Johannesburg, South Africa

Towards a Strategic Decision Support Tool for Innovation Ecosystems Stakeholder Management

Luca Carinus¹, Chipo Nancy Ngongoni¹, Sara {Saartjie} Grobbelaar^{1,2}

¹Department of Industrial Engineering, Stellenbosch University, South Africa; ²DSI-NRF CoE in Scientometrics and Science, Technology and Innovation Policy (sciSTIP)

Digitalization and Sustainability in Strategic Management: Research Agenda toward Dual Transformation

Christian Kürpick¹, Roman Dumitrescu², Tommy Falkowski¹, Christian Fechtelpeter¹, Arno Kühn¹

¹Fraunhofer Institute for Mechatronic Systems Design IEM, Germany; ²Heinz Nixdorf Institute / University of Paderborn, Germany

TEC1: Advance manufacturing & Factories of the Future

Time: Monday, 20/June/2022: 4:30pm - 6:00pm · Location: Room 106 - Centre Prouvé Session Chair: Alaa Hassan, Université de Lorraine, France

Concept of a business-process-related digital twin based on systems theory and operational excellence Markus Rabe, <u>Emre Kilic</u>

Technische Universität Dortmund, Germany

How can machine learning improve waste-to-energy plant operation

Alexandra Pehlken¹, Henriette Garmatter², <u>Lisa Dawel</u>¹, Fabian Cyris³, Hendrik Beck¹, Fenja Schwark¹, Roland Scharf², Astrid Nieße¹

¹OFFIS, Germany; ²Leibniz University Hannover, Germany; ³EEW - Energy from Waste, Germany

Using Data analytics to explore opportunities of Lean assessments

Rostyslav Pietukhov, Mujthaba Ahtamad The University of Warwick, United Kingdom

A Resilience Framework for Digital Transformation in the Banking Sector: A Systems Thinking Approach

<u>Dumisani Manzini</u>, Rudolph Oosthuizen, Hilda Chikwanda

University of Pretoria, South Africa

BCCMS, Authorization Through an Approach for a Blockchain Based Electronic Cards Management System

<u>Ahmed Mohamed Maghawry</u>¹, Amr Elhadidi², Mohamed Kholief³
¹EFinance; ²EFinance; ³ESLSCA

TEC6: Green Tech

Time: Monday, 20/June/2022: 4:30pm - 6:00pm · Location: Room 202 - Centre Prouvé Session Chair: Giovanny Arbelaez-Garces, Université de Lorraine, France

Identification of sensor technologies with the potential to support roadside ecosystem services

<u>Brice Corrigeux</u>¹, Brunelle Marche¹, Mauricio Camargo¹, Christophe Bachmann², Clémence Chaudron³

¹Université de Lorraine, ERPI, F-54000 Nancy, France; ²NOREMAT S.A, F-54710 Ludres, France; ³UMR 1434 SILVA,
Université de Lorraine, AgroParisTech, INRAE, Faculté des Sciences et Technologies, F-54506, Vandoeuvre les Nancy, France

Green Technology: Consumer purchase intention of electric vehicles in India

Johnsi Priya¹, Bhukya Koteswararao Naik², Deepesh Kaushik²

¹Meston College of Education, Cennai, India; ²National Institute of Industrial Engineering Mumbai, India

An Integrated Geographical Information and Road Asset Management System for road transport network sustainability in developing countries.

Raphael Kafui Natsui¹, Kingsford Kissi Mireku², Emmanuel Sasu³, Gustave Kojo Gameli Amuzu²

Ghana Institute of Management and Public Administration; ²Central University; ³University of Ghana

Literature Development Trajectory of LED Smart Street Lighting by Main Path Analysis

Kuel-Kuel Lai, <u>Adam Kao-Wen Weng*</u>, Hsiao-Yun Chang Chaoyang University of Technolog, Taiwan

Green Technology Readiness of Telecommunication Firms in India: An Exploratory Study

Shikha Sargam, Ruchita Gupta

NITIE, India

ENG4-2: Sustainable Engineering

Time: Monday, 20/June/2022: 4:30pm - 6:00pm · Location: Room 203 - Centre Prouvé Session Chair: Luke Maki, The Boeing Company, United States of America

System Dynamics Modeling for Smart and Collaborative Last Mile Networks

Anna-Maria Nitsche 1,2, Bogdan Franczyk 1,3, Christian-Andreas Schumann 2

¹University of Leipzig, Germany; ²University of Applied Sciences Zwickau, Germany; ³Wrocław University of Economics, Poland

Applying a Sustainable Business Model for Companies Creating Manufacturing Shared Value with Base of the Pyramid Suppliers

Zviemurwi Johnny Chihambakwe¹, Sara {Saartjie} Grobbelaar^{1,2}, Stephen Matope¹

¹Department of Industrial Engineering, Stellenbosch University, South Africa; ²DSI-NRF Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy (SciSTIP)

Risk management of the rehabilitation of a communal facility on dolomitic land: a South African case study

Tshepiso Mollo¹, <u>Leon Pretorius</u>², Jan Harm C Pretorius¹

¹University of Johannesburg, South Africa; ²University of Pretoria, South Africa

ECTP2: Smart Construction & Built Environment

Time: Monday, 20/June/2022: 4:30pm - 6:00pm · Location: Room 204 - Centre Prouvé Session Chair: Alain ZARLI, ECTP & R2M Solution, France Session Chair: Yacine Rezgui, Cardiff University, United Kingdom

Digital technologies to advance circular economy at territorial level: challenges and solutions

<u>Ghada Bouillass</u>, Michael Saidani, José Lameh, Bernard Yannou Université Paris Saclay CentraleSupélec, Laboratoire Genie Industriel

Sustainable Renovation through Modular semantic prefabrication

<u>Yacine Rezgui</u>¹, Salima Hamini², Abdelkader Ramdani²

¹Cardiff University, United Kingdom; ²Bureau d'Etudes Techniques, Algeria

SemanticLCA: A new generation of life cycle assessment methods applied to buildings

<u>Abdulrahman Fnais</u>, Ali Ghoroghi, Yacine Rezgui, Thomas Beach, Ioan Petri Cardiff University, United Kingdom

Aligning IFC and SRI domains for BIM supported SRI assessement

<u>Calin Boje</u>, Sylvain Kubicki, Annie Guerriero, Sebastien Thomas Luxembourg Institute of Science and Technology (LIST), Luxembourg

IE2-2: Digital Innovation Management

Time: Tuesday, 21/June/2022: 9:40am - 10:40am · Location: Room 103 - Centre Prouvé Session Chair: Frédérique Mayer, Université de Lorraine, France

Scrum's Methodology adaptations to meet the teleworking needs experienced by Software Development Teams

Luís Fernando Gama¹, Ana Correia Simões²

¹School of Economics and Management ,University of Porto, Porto, Portugal; ²INESC TEC - Institute for Systems and Computer Engineering, Technology and Science, Centre for Enterprise Systems Engineering Porto, Portugal

Design or Redesign Business Models' Innovation in the Digital Transformation Context

Patrick Ratté, Elaine Mosconi, Leandro Feitosa Jorge

Université de Sherbrooke, Canada

Innovation Management in Firms: A Review and Research Agenda

<u>Surabhi Singh</u>, Sanjay Dhir, Mayur Chikhale Indian Institute of Technology Delhi, India

IE13-1: Technology Foresight and Forecasting

Time: Tuesday, 21/June/2022: 9:40am - 10:40am · Location: Room 104 - Centre Prouvé Session Chair: Breno Nunes, University of Aston, United Kingdom

Linking innovation dynamics with scientific knowledge of climate change mitigation technologies

Bhukya Koteswararao Naik¹, Rahul Mishra¹, <u>Vasu Choudhary</u>²

¹NITIE, India; ²IGNTU, India

Under which conditions will "Flying Taxis" become relevant for inner-city passenger transport in the future?: Scenario Analysis

Swarnalekha Khandker, Ahasan Ullah Shohag

Hochschule Harz, Germany

Technology Roadmapping and 4IR in Defence: Case of Command and Control Systems

Andries Linda Malinga^{1,2}, Alwyn Strauss³, Petrus Letaba¹, Marthinus W. Pretorius¹

¹University of Pretoria, South Africa; ²Council for Scientific and Industrial Research (CSIR), South Africa; ³Private Consultancy, South Africa

IE7-4: R&D, Innovation and Entrepreneurship

Time: Tuesday, 21/June/2022: 9:40am - 10:40am · Location: Room 106 - Centre Prouvé Session Chair: Ferney Osorio, UNIVERSITÉ DE LORRAINE, France

Benefiting from the Power of the Crowd: Contribution of the Crowds to the Idea Evaluation Phase

ahmet çubukcu¹, özlem akarçay², tuba ulusoy¹

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Understanding inclusive innovation in informal economy, a conceptual model

Milena Legarda-López¹, María Luisa Villalba², Walter Ruiz-Castañeda¹

¹Facultad de Minas, Universidad Nacional de Colombia, Medellín, Colombia; ²Facultad de Ciencias Económicas y Administrativas, Universidad Católica de Oriente, Rionegro, Colombia

A Research on Iterability of Value Dimension Change in New Product Development Process

Kiyohiro Yamazaki

Tohoku University, Japan

ENG5-2: Rethinking Project Management

Time: Tuesday, 21/June/2022: 9:40am - 10:40am · Location: Room 202 - Centre Prouvé Session Chair: Brunelle MARCHE, Université de Lorraine, France

Comparison of Manufacturing/Remanufacturing CO2 emissions balance: application to a mowing machine

Brunelle MARCHE¹, Diego Nicolas PARRADO RODRIGUEZ¹, <u>Olivier CHERY</u>¹, Mauricio CAMARGO¹, Christophe BACHMANN²

¹Université de Lorraine, ERPI F-54000 Nancy, France; ²NOREMAT S.A, F-54710 Ludres, France

Collaborative capacity of open source hardware communities: A cross-sectional study

Robert Mies¹, Jérémy Bonvoisin²

¹Technische Universität Berlin, Institute for Machine Tools and Factory Management, Germany; ²Without affiliation

Joint-design of products and supply chain in a context of innovation

Brunelle MARCHE¹, Vincent BOLY¹, J. Roland ORTT², Laure MOREL¹

¹Université de Lorraine, ERPI F-54000 Nancy, France; ²Delft University of Technology Faculty of Technology Policy and Management, Delft, Netherlands

ENG1-1: ICT for health care

Time: Tuesday, 21/June/2022: 9:40am - 10:40am · Location: Room 204 - Centre Prouvé Session Chair: James Fleck, University of Edinburgh Business School, United Kingdom

Sustainable Design of IT Systems with Digital Twins – Principles, Application Areas and Advantages

Rainer Lutze

Dr.-Ing. Rainer Lutze Consulting, Germany

DESIGN OF AN ULTRASOUND IMAGE GUIDED ROBOT THAT DRAWS BLOOD FROM VEINS

Tawanda Mushiri¹, Victor Pavari², Habib Noorbhai¹

¹University of Johannesburg, South Africa; ²University of Zimbabwe

The benefits and challenges of Implementing Smart hospital projects: A systematic review

Eveth Nkeiruka Nwobodo-Anyadiegwu, Mira Ditend, <u>Alice Kabamba Lumbwe</u>
University of Johannesburg, South Africa

TEC7: Commercializing Technology

Time: Tuesday, 21/June/2022: 9:40am - 10:40am · Location: Room 205 - Centre Prouvé Session Chair: Joe Amadi-Echendu, University of Pretoria, South Africa

Technology backcasting: Retrospective case studies from mining and mineral processing

<u>Joe Amadi-Echendu</u>, Pavlen Govender, Magretha Vlok University of Pretoria, South Africa

IPR ECOSYSTEM IN DEVELOPING COUNTRIES: A CASE STUDY OF AN INSTITUTE OF EMINENCE

Shubham Anand, Priyadarshini Singh, <u>Gouri Ashok Gargate</u> IIT Kharagpur, India

The adoption of Scaled Agile Framework (SAFe) in non-agile organizations.

Kwete Mwana Nyandongo, <u>Mmammule Grace Madumo</u>
University of Johannessburg, South Africa

IE2-1: Digital Innovation Management

Time: Tuesday, 21/June/2022: 11:00am - 12:30pm · Location: Room 103 - Centre Prouvé Session Chair: Eric Bonjour, Université de Lorraine, France

Ethical Considerations of Artificial Intelligence: Ensuring Fairness, Transparency, and Explainability

Haroon Abbu¹, Paul Mugge², Gerhard Gudergan³

¹Bell and Howell; ²NC State University; ³RWTH Aachen University

Becoming Holy Grail of Health on the Move: Identifying and Prioritizing Factors Affecting the Commercialization of m-Health

Saeedeh Ghoochkanloo, Mohammad Naghizadeh, Mehdi Goodarzi

Allameh Tabataba'i University, Iran, Islamic Republic of

Digital Technology and the Stages of Digital Business Transformation

<u>Irmak Mutlu</u>, Erik den Hartigh, Caglar Ucler

Ozyegin University, Turkey

Coopetition: A Critical Review and Directions for Future Research

<u>Abhilasha Meena</u>, Sanjay Dhir, Sushil Sushil Indian Institute of Technology Delhi, India

Transition to Remote Work: Peculiarities of Social Networks Use

Vida Davidavičienė, Sigitas Davidavičius, Aurelija Burinskienė

Vilnius Gediminas Technical University, Lithuania

IE13-2: Technology Foresight and Forecasting

Time: Tuesday, 21/June/2022: 11:00am - 12:30pm · Location: Room 104 - Centre Prouvé Session Chair: Mauricio Camargo, University of Lorraine, France

Identification and evaluation of development paths for technology-oriented industrial companies in structural transformation processes

<u>Alessandro Sala</u>, Arko Steinwender, Peter Schieder, Wilfried Sihn Fraunhofer Austria Research GmbH, Austria

Towards a Framework to Assess the Impact of Innovative Transportation Technologies <u>Heiko Duin</u>

BIBA - Bremer Institut für Produktion und Logistik GmbH, Germany

Socio-technical Transitions and the Fourth Industrial Revolution: The need for an integrated analysis.

Martha Mukama Asiimwe, Prof. Imke H. de Kock

Stellenbosch University, South Africa

The constitution of technology as an institutional order

Alana Bauer Lacerda, <u>Fernando Lopes</u>

Universidade Federal do Rio Grande do Sul, Brazil

Customers' Purchasing Behavior: Persuasion of Online Food Delivery System Based on Hedonic and Utilitarian Features

Nor Aziati Abdul Hamid, Zainal Ainul Nabihah, Tasmin Rosmaini, Abdullah Norhazana
Universiti Tun Hussein Onn Malaysia, Malaysia

TEC2-1: Industry 4.0

Time: Tuesday, 21/June/2022: 11:00am - 12:30pm · Location: Room 105 - Centre Prouvé Session Chair: Adriana Simona Mihaita, UNIVERSITY OF TECHNOLOGY SYDNEY, Australia

Evolution of Industrial Symbiosis scientific field in Brazil: Insights from a systematic literature review and a bibliometric analysis

Emilia de Oliveira Faria, Cristiane Barreto, Armando Caldeira-Pires, Alisson Lima-Silva University of Brasilia, Brazil

Multi-objective modelling of a roadside mowing problem: a case study in France

Adriana-Simona MIHAITA¹, Brunelle MARCHE², Mauricio CAMARGO², Iman RAHIMI¹, Christophe BACHMANN³
¹University of Technology Sydney, Sydney, Australia; ²Université de Lorraine, ERPI F-54000 Nancy, France; ³NOREMAT S.A.

The use of 4IR technologies to improve the IT auditor's job function

KM Nyandongo, <u>SS Pillay</u> University of Johannesburg, South Africa

Speech Assistance: Use cases in Industry

<u>Manfred Langen</u> Siemens AG, Germany

IE7-1: R&D, Innovation and Entrepreneurship

Time: Tuesday, 21/June/2022: 11:00am - 12:30pm · Location: Room 106 - Centre Prouvé Session Chair: Paulo Antônio Zawislak, UFRGS, Brazil

P2B Methodology: from patents to business

Gabriela Fernandes^{1,2}, Pedro Lucas¹, <u>Ana Correia Simões</u>³, Gustavo Dalmarco³

¹University of Coimbra, Department of Mechanical Engineering; ²CEMMPRE, Department of Mechanical Engineering Coimbra, Portugal; ³INESC TEC - Institute for Systems and Computer Engineering, Technology and Science Centre for Enterprise Systems Engineering Porto, Portugal

INNOVATION CAPABILITIES IN PANDEMIC TIMES: EVIDENCE FROM RESILIENT MANUFACTURING FIRMS IN BRAZIL

Ariane Melo Silva Ávila, Denise Barbieux, Ricardo Machado Leo, Guilherme Freitas Camboim, <u>Paulo Antônio Zawislak</u>
Federal University of Rio Grande do Sul, Brazil

Leapfrogging into the Fourth Industrial Revolution: Lessons from Promising Practices

Evah Phago, Petrus Letaba

Department of Engineering and Technology Management, University of Pretoria, South Africa

Dauntless Research and Development Investments of Deficit Senior-Star Biotech Firms in the Valley of Death

Takao Fujiwara

Toyohashi University of Technology, Japan

ENG5-1: Rethinking Project Management

Time: Tuesday, 21/June/2022: 11:00am - 12:30pm · Location: Room 202 - Centre Prouvé Session Chair: Robert Bierwolf, IEEE TEMS, Netherlands, The

UNCERTAINTIES MANAGEMENT FROM THE HARD AND SOFT APPROACH, IN PROJECTS OF BRAZILIAN AEROSPACE SECTOR

Teresa Raquel Domingos^{1,2}, Milton Chagas¹

¹INPE - Instituto Nacional de Pesquisas Espaciais, Brazil; ²EMBRAER S.A

The Integration of Industry 4.0 on Corporate Social Responsibility (CSR) Projects: A Systematic Review

Eveth Nkeiruka Nwobodo-Anyadiegwu, Sikhakhane Z, Alice Kabamba Lumbwe

University of Johannesburg, South Africa

Managing Projects More Successful: Evaluation of a Concept for Implementing Critical Success Factors in Practice

<u>Maximilian Schöberl</u>¹, Simone Tuyisabe¹, Christoph Hollauer², Johannes Fottner¹

1Technical University of Munich, Germany; ²Wacker Neuson SE, Germany

ENG3-2: Service Design and Engineering

Time: Tuesday, 21/June/2022: 11:00am - 12:30pm · Location: Room 203 - Centre Prouvé Session Chair: Abdul Rahman Abdel Razek, FARO Technologies Europe GmbH, Germany

Analysis of Failure Mode Effects of the Traction Motor

Bayanda Kunene, <u>Arnesh Telukdarie</u> University of Johannesburg, South Africa

Managing structural integrity of pipelines utilizing inline inspection data

<u>Cynthia Ntombizanele Mbele</u>, Humna Hassan Malik, Jan Harm Pretorius Rand Water, South Africa

Developing a Rapid Service Prototyping Framework

Daniela Fehrenbach¹, <u>Abdul Rahman Abdel Razek</u>², Christian van Husen¹

1Hochschule Furtwangen University, Germany; ²FARO Technologies

From need to requirement: a methodological contribution

<u>Vincent BOLY</u>, Brunelle MARCHE, Davy MONTICOLO, Manon ENJOLRAS, Frédérique MAYER Université de Lorraine / ERPI, France

ENG1-2: ICT for health care

Time: Tuesday, 21/June/2022: 11:00am - 12:30pm · Location: Room 204 - Centre Prouvé Session Chair: Louzanne Bam, Stellenbosch University, South Africa

Development of a leanness assessment tool for hospitals

<u>Bronwyn Joubert</u>, Wouter Bam Stellenbosch University, South Africa

Co-Design for Gender Equality in an Al-Based Virtual Assistant for Intensive Care Units

Nicola Marsden¹, Suchanda Bhattacharyya², Janine Meyer-Christodoulou², Lukas Martin², Arne Peine²

1Heilbronn University, Germany; ²Clinomic GmbH, Aachen, Germany

The Healthcare Data Management Maturity Model (HDM3) for the assessment of healthcare data management in developing countries

<u>Laubscher van der Merwe</u>^{1,2}, Imke de Kock¹, Wouter Bam¹

Stellenbosch University, South Africa; ²CSIR, South Africa

Investigating the integration of public and private pharmaceutical supply chains

<u>Jessica Botes</u>, Wouter Bam, Imke de Kock Stellenbosch University, South Africa

ENG14: Smart Services and Software Platforms

Time: Tuesday, 21/June/2022: 11:00am - 12:30pm · Location: Room 205 - Centre Prouvé Session Chair: Frédérique Mayer, Université de Lorraine, France

A Study of Adoption and Effects of DevOps Practices

Tyron Offerman, Robert Blinde, Christoph Johann Stettina, Joost Visser LIACS, Leiden University, Niels Bohrweg 1, 2333 CA Leiden, The Netherlands

Cyclical Transformation of Value Creation for Smart Services

<u>Jannik Reinhold</u>¹, Christian Koldewey¹, Roman Dumitrescu²
¹University of Paderborn, Germany; ²Fraunhofer IEM, Paderborn, Germany

A Systematic Review of Concepts and Future Directions of Platform Ecosystem Development

Chibuike Cornelius Mbanefo^{1,3}, Sara Saartjie Grobbelaar^{1,2}

¹Department of Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa; ²DSI-NRF CoE in Scientometrics and Science, Technology and Innovation Policy (sciSTIP), Stellenbosch University Stellenbosch, South Africa; ³Institute for Biomedical Engineering, Stellenbosch University, Stellenbosch, South Africa

Measures for Integrated Product Support (IPS) in Early Life Cycle of Aerospace and Defense Systems – Introduction of New IPS Measures with Reference to the ASD IPS Suite

Ljubisa Vaskic1, Kristin Paetzold2

¹HENSOLDT Sensors GmbH, Germany; ²Technische Universität Dresden, Germany

IE8: Regional competitiveness policy and smart specialization strategies

Time: Tuesday, 21/June/2022: 2:30pm - 4:00pm · Location: Room 103 - Centre Prouvé Session Chair: Paulo Antônio Zawislak, UFRGS, Brazil

iops: a Python package for the Input-Output Product Space methodology

Michael Jacobus Du Plessis, Wouter Gideon Bam

Stellenbosch University, South Africa

Technology transfer, productive restructuring, and reindustrialization processes. Experience of the Mexican Bajio region

<u>Lorena del Carmen Álvarez-Castañón</u>¹, Pilar Arroyo-López², Rocío Alfonsina Lizarraga-Morales¹, Gema González-Romero³

¹Universidad de Guanajauto; ²Tecnológico de Monterrey, EGADE Business School; ³Universidad de Sevilla

Interconnection of freight delivery transport service networks

Aurelija Burinskienė

Vilnius Gediminas technical university, Lithuania

THE ROLE OF DEDICATED ORGANIZATIONS IN THE GOVERNANCE OF SMART CITY DEVELOPMENT: A MULTIPLE CASE STUDY

<u>Guilherme Freitas Camboim</u>, Nathália Amarante Pufal, Denise Barbieux, Paulo Antonio Zawislak NITEC/UFRGS, Brazil

TEC2-2: Industry 4.0: Digital Innovation management and applications of Al

Time: Tuesday, 21/June/2022: 2:30pm - 4:00pm · Location: Room 105 - Centre Prouvé Session Chair: Giovanny Arbelaez-Garces, Université de Lorraine, France Session Chair: Imke De Kock, Stellenbosch University, South Africa

Human-in-the-loop: Explainable or accurate artificial intelligence by exploiting human bias?

Laura Valtonen¹, Saku J. Mäkinen²

¹Tampere University, Finland; ²University of Turku, Finland

Assessing the effectiveness of the scrum framework and its successful implementation

Mmule Rebecca Madumo, Kwete Mwana Nyandongo

University of Johannesburg, South Africa

Towards a Protocol for Preference Evaluation of Cosmetic Products Using Physiological Sensors

Javier Miranda-Mellado¹, <u>Juliana Serna</u>¹, Giovanny Arbelaez-Garces¹, Javier A. Arrieta-Escobar², Véronique Sadtler², Mathieu Kacha³

¹Equipe de Recherche des Processus Innovatifs (ERPI-ENSGSI), Université de Lorraine, France; ²Laboratoire Réactions et Génie des Procédés (CNRS-LRGP-ENSIC), Université de Lorraine, France; ³Centre Européen de Recherche en Économie Financière et Gestion des Entreprises (CEREFIGE), Université de Lorraine, France

Assessment Model to Support the Technological Integration within Industrial Companies in the Context of Industry 4.0

Neal Widmer, Alaa Hassan, Davy Monticolo

Equipe de Recherche sur les Processus Innovatifs, Université de Lorraine, France

IE7-2: R&D, Innovation and Entrepreneurship

Time: Tuesday, 21/June/2022: 2:30pm - 4:00pm · Location: Room 106 - Centre Prouvé Session Chair: Matjaz Vidmar, The University of Edinburgh, United Kingdom

Foreign direct investment and host firms' technology development: The moderating role of overall and STEM education

Jihoon Shin¹, Miguel Amaral², Ana Cristina Barros³, M. Granger Morgan¹

¹Carnegie Mellon University, United States of America; ²Instituto Superior Técnico, Portugal; ³INESC TEC, Portugal

The Difference between Exporter and Non-exporter Knowledge-based firms; Capabilities Analysis Approach Case study: Knowledge-based firms in the sector of chemical technology

Mohammad Torabi Kharqh¹, Seyed Reza Mirnezami², mitra samadi³, Mohammad Sadegh Khayatian⁴

¹University of Tehran, Iran, Islamic Republic of; ²Sharif University of Technology, Iran, Islamic Republic of; ³Sharif University of Technology, Iran, Islamic Republic of; ⁴Shahid Beheshti University, Iran, Islamic Republic of

Management of Technological Convergence in New Technology-Based Firms

<u>Leandro Lepratte</u>, Rafael Blanc, Daniel Hegglin, María Alejandra Rodriguez, Leonardo Ruhl Universidad Tecnológica Nacional, Argentine Republic

An Empirical Analysis of High Technology Manufacturing Segments of India's Export sector Amrutha Mary Varkey

University of Warsaw, Poland

THE MAKING OF SOCIAL ENTREPRENEURS: EMPIRICALLY TESTING THE SOCIAL ENTREPRENEURIAL INTENTION MODEL.

<u>Preeti Tiwari</u>¹, B. KOTESWARA RAO Naik²

¹Jindal Global Business School; ²NITIE Mumbai

ENG10-1: Industrial Internet & Industry 4.0

Time: Tuesday, 21/June/2022: 2:30pm - 4:00pm · Location: Room 202 - Centre Prouvé Session Chair: Abdul Rahman Abdel Razek, FARO Technologies Europe GmbH, Germany

The Role of Data within The Service Prototyping Design Dimensions

Abdul Rahman Abdel Razek³, Daniela Fehrenbach¹, Marc Pallot², Christian van Husen¹, Simon Richir²

¹Furtwangen University, Germany; ²Arts et Métiers ParisTech; ³FARO Technologies

The Integration of Industry 4.0 in Healthcare Quality Improvement

Eveth Nkeiruka Nwobodo-Anyadiegwu, Deborah Baraka Tambwe, <u>Alice Kabamba Lumbwe</u>
University of Johannesburg, South Africa

Collaborative Filtering for Mobile Application Recommendation with Implicit Feedback

Beatriz Paula^{1,6}, João Coelho^{1,6}, Diogo Mano^{1,7}, Carlos Coutinho^{1,2,3}, João Oliveira^{2,3,4}, Ricardo Ribeiro^{3,5}, Fernando Batista^{3,5}

¹Caixa Mágica Software, S.A., Portugal; ²Information Sciences, Technologies and Architecture Research Center (ISTAR-IUL); ³Iscte - Instituto Universitário de Lisboa; ⁴Instituto de Telecomunicações (IT); ⁵INESC-ID; ⁶Instituto Superior Técnico; ⁷Faculdade de Ciências da Universidade de Lisboa

Supporting circular economy in healthcare through digital reverse logistics

Getnet Bogale Fanta, Leon Pretorius

Department of Engineering and Technology Management, University of Pretoria, South Africa

ENG3-1: Service Design and Engineering

Time: Tuesday, 21/June/2022: 2:30pm - 4:00pm - Location: Room 203 - Centre Prouvé Session Chair: hakim boudaoud, Université de Lorraine, France

Analysis of Impact of Maintenance Practices on Road Infrastructure

Khumbelo Bele, <u>Megashnee Munsamy</u>, Arnesh Telukdarie University of Johannesburg, South Africa

Assessment of the Effectiveness of Speed Humps as Traffic Calming for Accident Reduction in Durban, South Africa

Lemo Andrew Monyatsi

Road Traffic Management Corporation, South Africa

Evaluating the understanding of Personal Data Privacy in Brazilian financial institutions from the perspective of consultants

Marcelo T Okano¹, lamara Ferreira², Edson Luiz Ursini³, <u>Henry de Castro Lobo dos Santos</u>³

¹UNIP, CEETEPS and FT UNICAMP, Brazil; ²CEETEPS; ³FT UNICAMP

Improving maintenance management of reservoir structures using smart systems

Lebogang Makama, <u>Arnesh Telukdarie</u>

University of Johannesburg, South Africa

ENG8-1: Innovation on Education and Learning

Time: Tuesday, 21/June/2022: 2:30pm - 4:00pm · Location: Room 204 - Centre Prouvé Session Chair: Alex Gabriel, Université de Lorraine, France

Contribute to Open Science with Research-based Learning: Explorative Research Action Study applied to Peer-to-Peer Energy Trading

<u>Alex Gabriel</u>, Laurent Dupont Université de Lorraine, France

Gamification for Smart and Collaborative Last Mile Networks Knowledge Transfer

Anna-Maria Nitsche^{1,2}, Bogdan Franczyk^{1,3}, Christian-Andreas Schumann²

¹University of Leipzig, Germany; ²University of Applied Sciences Zwickau, Germany; ³Wrocław University of Economics, Poland

Assisted Reality as an enabler for resilient remote learning during COVID-19

Thomas Kogias¹, Adrian Butnaru², Frank Waszink³, Jan Smallegange², Nikolaos Gavalakis¹, Elias Xidias¹, Dimitris Zissis¹

¹Department of Product & Systems Design Engineering, Polytechnic School, University of the Aegean; ²Innovation and Educational Development Department, STC Group; ³Rotterdam Mainport Institute, STC Group

Virtual laboratory, a learning resource for distance education

<u>Daniel Galvez</u>, Lorena Delgado, Christopher Caceres, Lucas Villarroel University of Santiago, Chili, Chile

IE10: Responsible Research and Innovation

Time: Tuesday, 21/June/2022: 4:30pm - 6:00pm · Location: Room 103 - Centre Prouvé Session Chair: Geerten van de Kaa, Delft University of Technology, Netherlands, The Session Chair: Fedoua KASMI, Université de Lorraine, France Session Chair: Vincent BOLY, Université de Lorraine / ERPI, France

Responsible Research and Responsible Innovation: Have new concepts emerged?

Akbar Mohammadi¹, Sahar Babaei²

¹Tehran University; ²Allameh Tabatabaei University

Analysis of innovation phases in the different AM future scenarios

<u>Marianne Hörlesberger</u>¹, Brigitte Kriszt², Andrea Kasztler¹

AIT Austrian Institute of Technology, Austria; ²Montanuniverstitaet Leoben, Austria

RRI and Digital Transformation in Grand Est Region

<u>Marianne Hörlesberger</u>¹, Vincent Boly², Jean-Jacques Bernardini³, Lucia Gonzalez⁴

¹AIT Austrian Institute of Technology, Austria; ²Université de Lorraine; ³Grand E-nov+; ⁴MATERALIA

Al governance and ethics in public procurement: Bridging the gap between theory and practice

Timo Tapani von Behr, Mikko Siponen, Pekka Abrahamsson

University of Jyväskylä, Finland

Exploring extended outcomes of co-creation applied for Responsible Research and Innovation

<u>Felicitas Schmittinger</u>, Francesca Rizzo, Alessandro Deserti Politecnico di Milano, Italy

IE9: Research and Innovation in Creative Industries

Time: Tuesday, 21/June/2022: 4:30pm - 6:00pm · Location: Room 104 - Centre Prouvé Session Chair: BHUKYA KOTESWARARAO NAIK, NATIONAL INSTITUTE OF INDUSTRIAL ENGINEERING, India

Towards an analytical framework to analyze the evolution of manufacturing innovation systems

Michelle McClelland¹, Sara S Grobbelaar², Natasha Sacks¹

¹Department of Industrial Engineering University of Stellenbosch AND DSI-NRF Centre of Excellence in Strong Materials (CoE-SM); ²Department of Industrial Engineering Stellenbosch University AND DSI-NRF Centre of Excellence in Scientometrics and Science, Technology, and Innovation Policy (SciSTIP)

An empirical study on the effects of leader behaviour and resilience on innovative work behaviour

Kimaya Reddy, Kai-Ying Chan

University of Pretoria, South Africa

A Teams Approach to Idea Generation: An Analysis of Personality and Team Learning on Creativity

Kai-Ying Chan, Precious Mokgala

University of Pretoria, South Africa

Research and scientific production in COVID - 19 in Argentina: analysis of bibliometric data

Miguel Guagliano, Adriana Sanchez Rico

Ministry of Science, Technology and Innovation - Argentina, Argentine Republic

Grass-root Innovation Ecosystem - an Indian case

Bhukya Koteswararao Naik¹, Ajit Kumar^{1,2}, Karuna Jain³, Anil Kumar⁴, Gautam Prakash⁵

¹National Institute of Industrial Engineering (NITIE) Mumbai; ²JBS, JIIT NOIDA, India; ³Shailesh J Mehta School of Management (SJSOM), IIT Bombay; ⁴Tata Institute of Social Sciences (TISS) Mumbai; ⁵Tata Consultancy Services NOIDA NOIDA, India

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TEC5: Artificial Intelligence & Big Data

Time: Tuesday, 21/June/2022: 4:30pm - 6:00pm · Location: Room 105 - Centre Prouvé Session Chair: Giovanny Arbelaez-Garces, Université de Lorraine, France

Telecommunications Customer Service Improvement Through Big Data Analytics

Thabile Shongwe¹, Masike Malatji², Jan-Harm Christiaan Pretorius¹

¹Postgraduate School of Engineering Management, University of Johannesburg, South Africa; ²Graduate School of Business Leadership, University of South Africa, South Africa

The Impact of Interactive technology by using Artificial Intelligence on the Formation of Social Interactions: A Study in Tourism Industry 4.0

Seyede Rojin Sobhani¹, Negar Armaghan², Saeed Haghir¹, Ali Andaji Garmaroodi¹

¹School of Architecture, College of Fine Arts, University of Tehran, Iran; ²Department of Technology Development Studies, Iranian Research Organization for Science and Technology (IROST), Tehran, Iran

Big data Citizen-centred smart city governance. Evidence from Wuhan and the Coronavirus battle <u>DIDIER GRIMALDI</u>

Ramon LLull University, Spain

The Role of Management of Technology (MOT) in Unlocking Nations' Competitiveness in Post Pandemic and Global Crises

Mohamed Azzam, Tarek Khalil

Nile University, Egypt

Computer-assisted Career Guidance Systems User Impact: An Evaluation study

<u>fatima ezzahra hamdani</u>, marie gribouval, barbara moissa, davy monticolo, vincent boly erpi, France

IE7-3: R&D, Innovation and Entrepreneurship

Time: Tuesday, 21/June/2022: 4:30pm - 6:00pm · Location: Room 106 - Centre Prouvé Session Chair: Matjaz Vidmar, The University of Edinburgh, United Kingdom

Systematic Literature Review on Corporate Accelerator: Benefits, Challenges and Critical Success Factors

<u>Caroline Rodrigues da Silva</u>, Thaynara Beatriz Vilela, Rodrigo Rodrigues Borges de Faria, Leonardo Breno Pessoa da Silva, Joseane Pontes, Luis Mauricio Martins de Resende, Rui Tadashi Yoshino, Fernanda Tavares Treinta

Federal University of Technology (UTFPR) - Paraná, Brazil

Enabling Entrepreneurs to build on their means: The Effectual Decision-Making Canvas

<u>Marcos Antonio González</u>^{1,2}, Orestis Terzidis¹, Benedict Heblich¹
¹Karlsruhe Institute of Technology, Germany; ²Universidad Austral de Chile

Migrant Work Inclusion: Designing Research on Entrepreneurship Support

Yngve Dahle¹, Kevin Reuther², <u>Dimitris Polychronopoulos</u>¹, Anh Nguyen Duc¹, Lars Ueland Kobro¹

1 University of South-Eastern Norway; ²Leipzig University, Germany

Self-Assessment Model based on the ISO 56002:2019 Standard for Evaluating linnovation Management Systems of Science and Technology Institutions

MICHELLE SANTOS, MARIA F ALMEIDA

Pontifical Catholic University of Rio de Janeiro, Brazil

ENG10-2: Industrial Internet & Industry 4.0

Time: Tuesday, 21/June/2022: 4:30pm - 6:00pm · Location: Room 202 - Centre Prouvé Session Chair: Regina Negri Pagani, Federal University of Technology, Paraná (UTFPR), Brazil

Support from Governance, Leadership and Smart People in the context of Smart Cities Development

Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apr^a Ribeiro Ferras, Juliana Vitória M. Bittencourt, Regina N. Pagani

Federal Technological University of Paraná, Brazil

Contribution of an IoT based cloud platform in the realization of data-driven in-house logistics

Masoud Zafarzadeh¹, Wajid Ali Khilji¹, Jannicke Baalsrud Hauge^{1,2}

¹KTH Royal Institute of Technology, Sweden; ²BIBA, Germany

Forward kinematic based approach using sensor fusion for tracking the human limb

Arthur Johnson¹, Aswin K Ramasubramanian², Robins Mathew², Brian Mulkeen¹, Nikolaos Papakostas²

¹School of Electrical and Electronic Engineering, University College Dublin, Ireland; ²School of Mechanical and Materials Engineering, University College Dublin, Ireland

Preliminary approach to the functionality of a technical remote sensing platform applied to agriculture in the Colombian case

<u>Sandra Cecilia Bautista-Rodríguez</u>, Francy Pascagaza, Freddy Díaz, Victoria Vallejo Universidad Central, Colombia

The Impact of Total Productive Maintenance on Performance in The South-African Food Manufacturing Industry

Andre Vermeulen, Jacques Weidemann, Jan Harm C Pretorius
University of Johannesburg, South Africa

ENG8-2: Innovation on Education and Learning

Time: Tuesday, 21/June/2022: 4:30pm - 6:00pm · Location: Room 204 - Centre Prouvé Session Chair: Alex Gabriel, Université de Lorraine, France

Designing the curriculum of the packaging design course based on the active learning

Narucha Tanaiutchawoot

Suranaree University, Thailand

Determinants of e-Learning user satisfaction at a South African University of Technology

Nhlanhla W. B. Mlitwa, Oluwamayowa O. Ogundaini

University of South Africa Gradaute School of Business Leadership, South Africa

Components of digital assistants in higher education environments

Sophie Henne, Vanessa Mehlin, <u>Elena Schmid</u>, Sigurd Schacht University of Applied Science Ansbach, Germany

Digital Learning Readiness of higher education institutions in the 4th industrial revolution era during the COVID-19 pandemic, Case of a University in South Africa

Eric Mikobi Bakama, Charles Mukwakungu Sambil, Nita Sukdeo
University of Johannesburg, South Africa

What do we learn in a living lab?

Valentine Labouheure, <u>Raphaël Bary</u>, Laure Morel ERPI- Université de Lorraine, France

IE12: Tech- & Digital Entrepreneurship

Time: Wednesday, 22/June/2022: 11:00am - 12:30pm · Location: Room 105 - Centre Prouvé Session Chair: Clarice Bertin, ICN Business School & BETA Research Center, France

Digital Fit(ness) - is 'being in a fit with' enough?

Erich Heumüller, <u>Julia Kossowski</u>, Sebastian Richter Baden-Wuerttemberg Cooperative State University Stuttgart, Germany

Local Ecosystem Open Innovation Intermediaries as Key Enablers for the Development of Incumbents' Digital Technology Partnerships

Clarice Bertin^{1,3}, Véronique Schaeffer^{2,3}

¹ICN Business School; ²University of Strasbourg; ³BETA Research Center

The e.DO Cube Hackathon – Transitioning to Graduate School

<u>Brendan Sullivan</u>¹, Monica Rossi¹, Lucia Ramundo², Paolo Rosa¹, Sergio Terzi¹

1Politecnico di Milano, Italy; ²EIT Manufacturing

The entrepreneurial function in digital entrepreneurial ecosystems. The resource potential of the innovative entrepreneur Analysis based on the founders of the top five digital social networks (Facebook, Youtube, Whatsapp, Messenger and Instagram)

Sophie Boutillier¹, Dimitri Uzunidis²

¹University of Littoral Côte d'Opale, France; ²University of Littoral Côte D'Opale, France

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WS02: HyValue Workshop

Time: Wednesday, 22/June/2022: 1:30pm - 4:15pm · Location: Auditorium 300 - Centre Prouvé Session Chair: Robert Bierwolf, IEEE TEMS, Netherlands, The Session Chair: Monticolo Davy, Université de Lorraine, Réunion (France)

Agilization of technical development processes for medical devices

Anna Schidek, Holger Timinger

University of Applied Sciences Landshut (Institute for Data and Process Science), Germany

Concept of a Fuzzy Expert System for Story Point Estimations in Agile Projects

Philipp Hansen^{1,2}, Holger Timinger^{1,2}

¹Landshut University of Applied Sciences, Germany; ²Institute for Data and Process Science

Supporting the Development of a Mobile Context-Aware Application by an MDA-based Approach

Julian Dörndorfer, Markus Schmidtner

University of Applied Sciences, Germany

Influence of Project Parameters on the Decision of an Agile or Plan-based Approach

<u>Markus Schmidtner</u>, Holger Timinger, Claudia Doering, Finn Reiche HAW Landshut, Germany

From Cooperation to Collaboration: Sociological Insights into Digital Collaboration Platforms in the Automotive Value Chain

Alexander Ziegler, Eckhard Heidling

Institute for Social Science Research Munich, Germany

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