

2022 IEEE 28TH ICE/ITMC & 31ST IAMOT JOINT CONFERENCE

CONFERENCE AGENDA



LE
MONUMENT PRÉFÉRÉ
DES FRANÇAIS
2021

THE
MOST FAVORITE
MONUMENT FOR
FRENCH PEOPLE
2021

Credits photo: Gregory GOLDSTEIN - Drone de France

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

JUNE 19-23, 2022
NANCY, FRANCE

<https://ice-iamot-2022-conference.org/>





Find all the information about the conference on
<https://ice-iamot-2022-conference.org/>

Find the papers and make you own agenda on (use your conftool account)
<https://www.conftool.pro/ice-iamot-2022/>

Update 19/06/2022



Date: Monday, 20/June/2022

8:00am -	Regist. D1: Registration 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)			
9:00am -	Plenary01: Opening & Keynote speakers 1-2 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 -	IE5: Intrapreneurship & Corporate Venturing Location: Room 103 - Centre Prouvé Chair: Fabio Cruz Sanchez , Université de Lorraine, France Remote link: Room 103 on Microsoft Teams	IE6-1: Living-Labs & Open-Innovation Location: Room 104 - Centre Prouvé Chair: Laure Morel , Université de Lorraine, France Remote link: Room 104 on Microsoft Teams	IE11-3: Sustainability in Innovation & Entrepreneurship Location: Room 105 - Centre Prouvé Chair: Manon Enjolras , Université de Lorraine - ERPI, France Remote link: Room 105 on Microsoft Teams	TEC8: Robotics & Autonomous Systems / Cyber Physical Systems (CPS) Location: Room 106 - Centre Prouvé Chair: Klaus-Dieter Thoben , BIBA - Bremer Institut für Produktion & Logistik, Germany Remote link: Room 106 on Microsoft Teams
12:30pm	TEC3-1: Technology on Education and Training Location: Room 202 - Centre Prouvé Chair: Raphaël BARY , Université de Lorraine, France Remote link: Room 202 on Microsoft Teams	ENG2: Energy Supply and Energy Utilities Location: Room 204 - Centre Prouvé Chair: Yacine Rezgui , Cardiff University, United Kingdom Remote link: Room 204 on Microsoft Teams	ENG12-1: SCM 4.0 Location: Room 205 - Centre Prouvé Chair: Kulwant Pawar , Nottingham University, United Kingdom Remote link: Room 205 on Microsoft Teams	
12:30pm -	Lunch Location: Foyer 850 (Hall) - Centre Prouvé			
1:30pm	Plenary02: Keynote speaker 3 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			
2:30pm -	IE4-1: Human, Socio-Economic and Culture Issues Location: Room 103 - Centre Prouvé Chair: Fedoua KASMI , Université de Lorraine, France Remote link: Room 103 on Microsoft Teams	IE6-2: Living-Labs & Open-Innovation Location: Room 104 - Centre Prouvé Chair: Laurent DUPONT , Université de Lorraine, France Remote link: Room 104 on Microsoft Teams	IE11-1: Sustainability in Innovation & Entrepreneurship Location: Room 105 - Centre Prouvé Chair: Brunelle MARCHE , Université de Lorraine, France Remote link: Room 105 on Microsoft Teams	TEC3-2: Technology on Education and Training Location: Room 202 - Centre Prouvé Chair: Raphaël BARY , Université de Lorraine, France Remote link: Room 202 on Microsoft Teams
4:00pm	ENG4-1: Sustainable Engineering Location: Room 203 - Centre Prouvé Chair: Alaa Hassan , Université de Lorraine, France Remote link: Room 203 on Microsoft Teams	ECTP1: Smart Construction & Built Environment Location: Room 204 - Centre Prouvé Chair: Alain ZARLI , ECTP & R2M Solution, France Chair: Sylvain Kubicki , Luxembourg Institute of Science and Technology, Luxembourg Remote link: Room 204 on Microsoft Teams	ENG12-2: SCM 4.0 Location: Room 205 - Centre Prouvé Chair: Mauricio Camargo , University of Lorraine, France Remote link: Room 205 on Microsoft Teams	
4:00pm -	Coffee Break Location: Foyer 850 (Hall) - Centre Prouvé			
4:30pm				

<p>4:30pm - 6:00pm</p>	<p>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 Microsoft Teams</p>	<p>IE6-3: Living-Labs & Open-Innovation Location: Room 104 - Centre Prouvé Chair: Marc Pallot, Arts & Metiers ParisTech, France Remote link: Room 104 on Microsoft Teams</p>	<p>IE11-2: Sustainability in Innovation & Entrepreneurship Location: Room 105 - Centre Prouvé Chair: Dominique Jolly, France Remote link: Room 105 on Microsoft Teams</p>	<p>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</p>
<p>6:00pm - 7:45pm</p> <p>7:00pm</p>	<p>Free time</p> <p>Social Event: Visit & Welcoming Cocktail Location: Musée des Beaux-Arts</p> <div data-bbox="525 828 991 1133">  </div> <div data-bbox="1034 909 1201 1133">  </div> <p>19:00 - 20:30 - Visit Musée des Beaux-Art Nancy (visits will start at 19:00)</p> <p>20:30 - 21:45 - Welcome speeches by the IAMOT and ICE Presidents / representatives & Cocktail <i>(Access by registration only)</i> How to join us / move in Nancy https://www.google.com/maps/d/edit?mid=1qYCBYo6cg4Meqk1aQow9rfPGgsUOtV_9&usp=sharing</p>			

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 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			
9:40am -	IE2-2: Digital Innovation Management Location: Room 103 - Centre Prouvé Chair: Frédérique Mayer , Université de Lorraine, France Remote link: Room 103 on Microsoft Teams	IE13-1: Technology Foresight and Forecasting Location: Room 104 - Centre Prouvé Chair: Breno Nunes , University of Aston, United Kingdom Remote link: Room 104 on Microsoft Teams	IE3: Digital Social Networks Location: Room 105 - Centre Prouvé Chair: Sophie Boutillier , University of Littoral Côte d'Opale, France Remote link: Room 105 on Microsoft Teams	IE7-4: R&D, Innovation and Entrepreneurship Location: Room 106 - Centre Prouvé Chair: Ferney Osorio , UNIVERSITÉ DE LORRAINE, France Remote link: Room 106 on Microsoft Teams
10:40am -	ENG5-2: Rethinking Project Management Location: Room 202 - Centre Prouvé Chair: Brunelle MARCHE , Université de Lorraine, France Remote link: Room 202 on Microsoft Teams	ENG1-1: ICT for health care Location: Room 204 - Centre Prouvé Chair: James Fleck , University of Edinburgh Business School, United Kingdom Remote link: Room 204 on Microsoft Teams	TEC7: Commercializing Technology Location: Room 205 - Centre Prouvé Chair: Joe Amadi-Echendu , University of Pretoria, South Africa Remote link: Room 205 on Microsoft Teams	
10:40am -	Coffee Break Location: Foyer 850 (Hall) - Centre Prouvé			
11:00am -	IE2-1: Digital Innovation Management Location: Room 103 - Centre Prouvé Chair: Eric Bonjour , Université de Lorraine, France Remote link: Room 103 on Microsoft Teams	IE13-2: Technology Foresight and Forecasting Location: Room 104 - Centre Prouvé Chair: Roland Ortt , Delft University of Technology, Netherlands, The Remote link: Room 104 on Microsoft Teams	TEC2-1: Industry 4.0 Location: Room 105 - Centre Prouvé Chair: Adriana Simona Mihaita , UNIVERSITY OF TECHNOLOGY SYDNEY, Australia Remote link: Room 105 on Microsoft Teams	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
11:00am -	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: Imke De Kock , 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
12:30pm -	Lunch Location: Foyer 850 (Hall) - Centre Prouvé			
1:30pm -	Plenary04: Keynote 5 Location: Auditorium 300 - Centre Prouvé			
1:30pm -	Joshua Pearce (Western University, Canada) - Open source appropriate technology (OSAT): Finding collaborative solutions to problems in sustainability and poverty reduction Remote Link: Auditorium			
2:30pm -	RT-01: Innovation in public Administration	IE8: Regional competitiveness policy and	TEC2-2: Industry 4.0: Digital Innovation	IE7-2: R&D, Innovation and

<p>2:30pm - 4:00pm</p>	<p>Location: Auditorium 300 - 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 Service, Academics Supported by the City of Nancy, Territoria, RNI Remote Link: Auditorium</p>	<p>smart specialization strategies Location: Room 103 - Centre Prouvé Chair: Paulo Antônio Zawislak, UFRGS, Brazil Remote link: Room 103 on Microsoft Teams</p>	<p>management and applications of AI Location: Room 105 - Centre Prouvé Chair: Giovanny Arbelaez-Garces, Université de Lorraine, France Remote link: Room 105 on Microsoft Teams</p>	<p>Entrepreneurship Location: Room 106 - Centre Prouvé Chair: Matjaz Vidmar, The University of Edinburgh, United Kingdom Remote link: Room 106 on Microsoft Teams</p>
<p>4:00pm - 4:30pm 4:00pm - 6:00pm</p>	<p>ENG10-1: Industrial Internet & Industry 4.0 Location: Room 202 - Centre Prouvé Chair: Abdul Rahman Abdel Razeq, FARO Technologies Europe GmbH, Germany Remote link: Room 202 on Microsoft Teams</p>	<p>ENG3-1: Service Design and Engineering Location: Room 203 - Centre Prouvé Chair: hakim boudaoud, Université de Lorraine, France Remote link: Room 203 on Microsoft Teams</p>	<p>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</p>	
<p>4:30pm - 6:00pm</p>	<p>Coffee Break Location: Foyer 850 (Hall) - Centre Prouvé</p> <p>Serious Game: "L'année de l'innovation" Location: Foyer 850 (Hall) - Centre Prouvé Chair: Alice de Casanove, Université 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)</p>	<p>RT-03: Meet the Editors Location: Auditorium 300 - Centre Prouvé Chair: Breno Nunes, University of Aston, United Kingdom Chair: Manon Enjolras, Université de Lorraine - ERPI, France</p> <ul style="list-style-type: none"> Technology Forecasting and Social Change – Scott Cunningham – virtually IEEE Technology and Engineering Management – Alexander Brem – in person Technovation – Stelvia Matos – virtually Technology Analysis & Strategic Management – James Fleck – in person Regional studies – David Bailey – virtually RNI editions - Laurent Adatto – in person Remote Link: Auditorium	<p>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</p>	<p>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</p>
<p>6:30pm - 8:00pm</p>	<p>TEC5: Artificial Intelligence & Big Data Location: Room 105 - Centre Prouvé Chair: Monticolo Davy, Université de Lorraine, Réunion (France) Remote link: Room 105 on Microsoft Teams</p>	<p>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 Teams</p>	<p>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</p>	<p>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</p>
<p>6:30pm - 8:00pm</p>	<p>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</p> <p>Free evening – Fête de la musique – Enjoy the musique in the City center and the old city center of Nancy</p> 			

Date: Wednesday, 22/June/2022

8:00am	Regist. D3: Registration			
-	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)			
9:00am	Plenary05: EU projects Round Table			
-	Location: Auditorium 300 - Centre Prouvé			
10:30am	Chair: Laurent DUPONT , Université de Lorraine, France			
	"Open innovation, technologies & communities as enablers of socio-economical transition"			
	Context:			
	<ul style="list-style-type: none"> 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:			
	<ul style="list-style-type: none"> 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				
11:00am	WS01: Co-designing Open innovation, technologies & communities to enable socio-economical transition - Practices and actions with EU projects	Climate Labs	IE12: Tech- & Digital Entrepreneurship	WS03: Responsible digitalization: the example of the DigiTeRRI project
-		(closed event members only)		
12:30pm	Location: Auditorium 300 - Centre Prouvé	Location: Room 103 & 104 - Centre Prouvé	Location: Room 105 - Centre Prouvé	Location: Room 106 - Centre Prouvé
	Chair: Ivo Zeller , Steinbeis Europa Zentrum, Germany		Chair: Clarice Bertin , ICN Business School & BETA Research Center, France	Chair: Monticolo Davy , Université de Lorraine, Réunion (France)
	Workshop open to all - Transforming industry and territories by engaging the international ICE-IAMOT community in European projects: DIY4U, iProduce, INEDIT, OpenNext.		Remote link: Room 105 on Microsoft Teams	Chair: Vincent BOLY , Université de Lorraine / ERPI, France
	Practical information on the Octroi Nancy demonstrators to prepare your living lab experience in the immersive design factory			•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 / Värmland / Grand Est
				Remote link: Room 106 on Microsoft Teams
	Remote Link: Auditorium			
	   			
12:30pm	Lunch			
-	Location: Foyer 300 (small Hall) - Centre Prouvé			
1:30pm				
1:30pm	Climate Labs (closed event – project member only)			
-	Location: Room 103 & 104 - Centre Prouvé			
				
6:00pm	3:30pm - 4:30pm Coffee Break			
	Location: Foyer 300 (small Hall) - Centre Prouvé			
1:30pm				
-				
2:00pm	HyValue			
	Hyndeswilling in der Value Chain at Centre Prouvé			
			Commune 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
-
6:00pm

WS02: HyValue Workshop

Location: **Auditorium 300 - Centre Prouvé**

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 Schmidner - 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 Schmidner - 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**

HyValue
Hybridisierung in der Value Chain



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

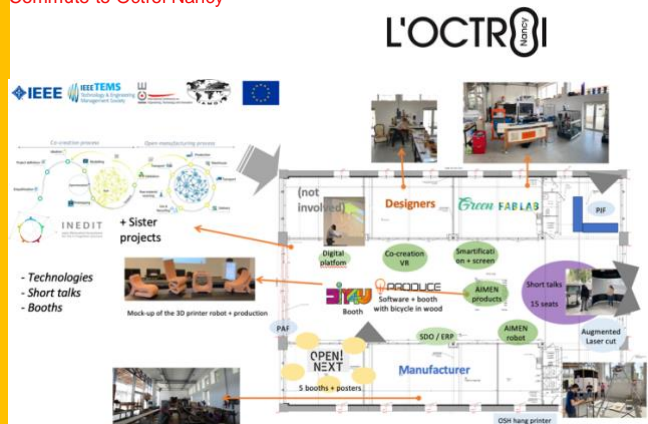
Chair: **Chandana Ratnayake**, SINTEF AS, Norway

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
-
7:45pm
7:45pm

Free time

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=1qYCBYo6cg4Meqk1aQow9rPGgsUOtV_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

11:00am

Plenary06: ICE-IAMOT closing session

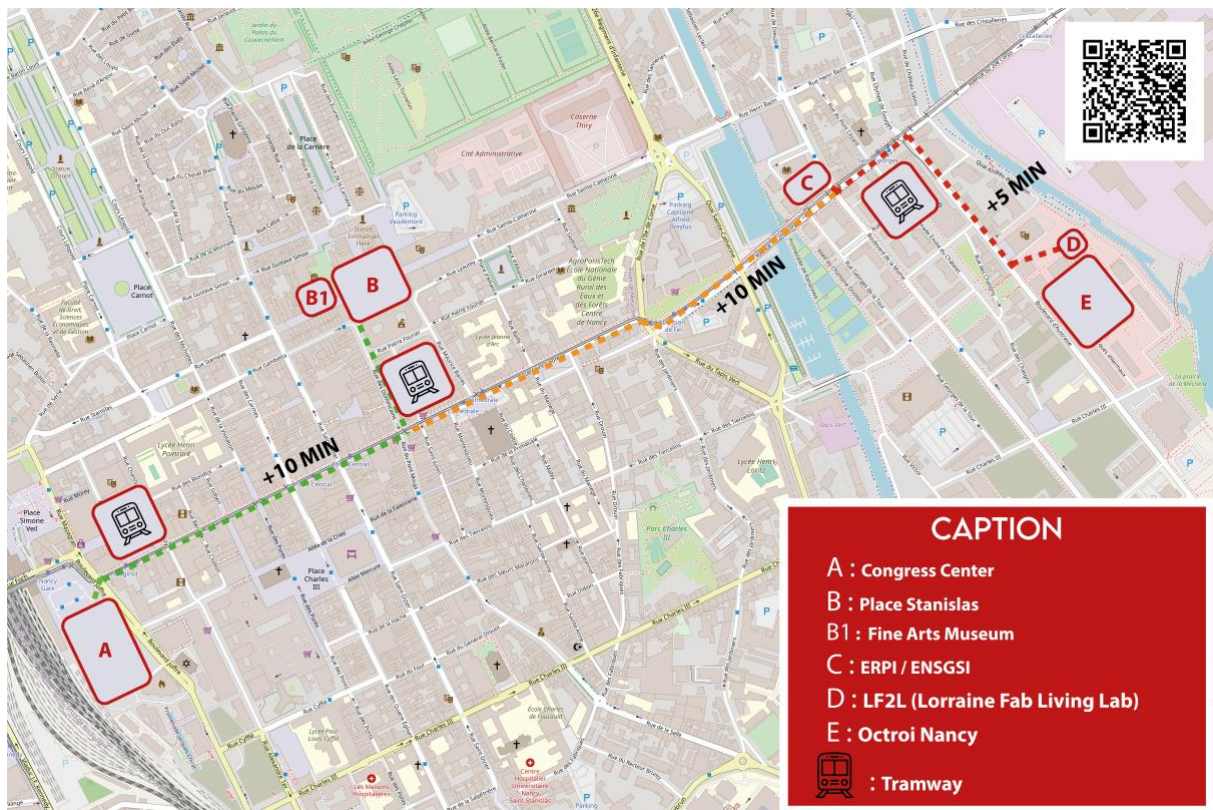
Location: **Petite Halle - Octroi Nancy**

12:30pm

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

Special Guest: H  l  ne Boulanger, pr  sidente de l'Universit   de Lorraine.

Venues ICE-IAMOT Conference



Detailed Agenda

Date: Monday, 20/June/2022

8:00am - 9:00am	Regist. D1: Registration Location: Entrance / Registration Desk - Centre Prouvé 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)			
9:00am - 10:30am	Openning & Keynote 1 Location: Auditorium 300 - Centre Prouvé Welcome address by the local organisers 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 - 11:00am	Coffee Break Location: Foyer 850 (Hall) - Centre Prouvé			
11:00am - 12:30pm	IE5: Intrapreneurship & Corporate Venturing Location: Room 103 - Centre Prouvé Chair: Fabio Cruz Sanchez , Université de Lorraine, France Remote link: Room 103 on Microsoft Teams 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	IE6-1: Living-Labs & Open-Innovation Location: Room 104 - Centre Prouvé Chair: Laure Morel , University de Lorraine, France Remote link: Room 104 on Microsoft Teams Unfolding innovation lab services in public hospitals: a hospital FabLab case study Ambre Scarmoncin¹, Clothilde Portelli², Ferney Osorio³, Guillaume Eckerlein¹ 1: APHP Paris Saclay; 2: Humaniteam Design; 3: ERPI, Université de Lorraine	IE11-3: Sustainability in Innovation & Entrepreneurship Location: Room 105 - Centre Prouvé Chair: Manon Enjolras , Université de Lorraine - ERPI, France Remote link: Room 105 on Microsoft Teams Evaluating the drivers of frugal innovation and its relation to sustainability – A Systematic Literature Review Tsireledzo Maliehe, Schalk Grobbelaar Department of Engineering and Technology Management, University of Pretoria, South Africa	TEC8: Robotics & Autonomous Systems / Cyber Physical Systems (CPS) Location: Room 106 - Centre Prouvé Chair: Klaus-Dieter Thoben , BIBA - Bremer Institut für Produktion & Logistik, Germany Remote link: Room 106 on Microsoft Teams Digitization technologies in transport logistics: A systematic literature review protocol John-Dean Kasher, Simon Riedle, Navid Julian Sardarabady DHBW Ravensburg Campus Friedrichshafen, Germany
	Why Companies Implement Multiple Corporate Entrepreneurship Units Nicolai Heinzelmann¹, J. Roland Ortt², Guido H. Baltes¹ 1: HTWG Konstanz, Germany; 2: Delft University, Netherlands	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 1: Vorarlberg University of Applied Sciences, Austria; 2: ZHAW School of Engineering; 3: OST Eastern Switzerland University of Applied Sciences	The influence of circular economy implementation on competitiveness in manufacturing companies Ulla Anneli Saari¹, Matthias Schneider², Svenja Damberg², Leena Aarikka-Stenroos¹, Minna Lantz³, Cornelius Herstatt², Christian M. Ringle⁴ 1: Industrial Engineering & Management, Tampere University, Finland; 2: Institute for Technology & Innovation Management, Hamburg University of Technology, Germany; 3: Automation Technology & Mechanical Engineering, Tampere University, Finland; 4: Institute of Human Resource Management &	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
	Uncovering goals of corporate entrepreneurship: A classification based on literature review Christina Lang¹, Isabella Fitzky¹, J. Roland Ortt², Guido H. Baltes¹ 1: Institute for Strategic Innovation & Technology Management, HTWG	Collaborative networks between innovation spaces Fanny Pruvot, Laurent Dupont, Laure Morel Laboratoire ERPI, France		Identifying real-world problems with automated vehicles by detecting behavioral differences in steering movements between

	Konstanz, Germany; 2: Faculty of Technology, Policy and Management, Delft University of Technology	The Integration of Industrial Design in the Fuzzy Front-End – FFE <u>Lilian Schreiner Módolo¹</u>, Paulo Tromboni de Souza Nascimento² 1: USP, Brazil; 2: USP, Brazil	Organizations, Hamburg University of Technology, Germany	the human driver and machine <u>Manuel Schwarz, Luc Rolland, James Bruce Johnston</u> University of West Scotland, United Kingdom
	Intrapreneurship and corporate entrepreneurship: an integrated operational and strategic model from dynamic capabilities approach <u>JOSE CARLOS CURIEL FRANCO, MIRIAM DELGADO VERDE</u> UNIVERSIDAD COMPLUTENSE DE MADRID, Spain		Identification of Critical Success Factors for Circular Start-ups 4.0: A literature review <u>Bruno Alcantara Rodrigues, Fernanda Tavares Treinta, Fabio Neves Puglieri</u> Federal University of Technology (UTFPR) - Paraná, BR, Brazil	A Model for Selecting Emerging Technologies Apps for Intelligent ERP <u>Ahmed Mohamed Abdelrahman Fayed, Mohamed Omar Ezzat</u> Nile University, Egypt
	TEC3-1: Technology on Education and Training Location: Room 202 - Centre Prouvé Chair: Raphaël BARY , Université de Lorraine, France Remote link: Room 202 on Microsoft Teams	ENG2: Energy Supply and Energy Utilities Location: Room 204 - Centre Prouvé Chair: Yacine Rezgui , Cardiff University, United Kingdom Remote link: Room 204 on Microsoft Teams	A Research Framework for B2B Green Marketing Innovation: the Design of Sustainable Websites <u>Pauline Lacom^{1,2}, Sylvain Sagot^{2,3}</u> 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	
		ENG12-1: SCM 4.0 Location: Room 205 - Centre Prouvé Chair: Kulwant Pawar , Nottingham University, United Kingdom Remote link: Room 205 on Microsoft Teams	Modelling manufacturing process flexibility: A systematic review <u>Marika Spamer, Louzanne Bam</u> Stellenbosch University, South Africa	
		A Conceptualisation for the Integration and Evaluation of Gender Mainstreaming in Energy Project Development <u>Lelani Oosthuizen, Imke H. De Kock, Josephine K. Musango</u> Stellenbosch University, South Africa	IoT system for the validation of conditions in shipping couriers <u>Pedro Miguel Moreira Filipe¹, Bruno Mataloto², Carlos Coutinho²</u> 1: ISCTE - Instituto Universitário de Lisboa, Portugal; 2: Information Sciences, Technologies and Architecture Research Center (ISTAR-IUL), Portugal	
		Case study on the impact of engineering changes during power plant construction <u>Phetheni Mhlango, Megashnee Munsamy, Jan-Harm Christiaan Pretorius</u> University of Johannesburg, South Africa	Security Inspection Framework and its Application to Use Cases	
		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, Nouredine Takorabet, Mustafa Music Universite de Lorraine	<u>Yuto Nakano</u> , Yasuaki Kobayashi, Takao Kojima, Yutaka Miyake, Shinsaku Kiyomoto KDDI Research, Japan	
		INFRASTRUCTURE PROJECTS IN SUB SAHARAN AFRICA, SENSITIVITY TO POLITICAL RISKS Noah Ogano ¹ , <u>Leon Pretorius</u> ² 1: Strathmore University, Kenya; 2: University of Pretoria, South Africa		
12:30pm - 1:30pm	Lunch Location: Foyer 850 (Hall) - Centre Prouvé			
1:30pm - 2:30pm	Keynote 2 Location: Auditorium 300 - Centre Prouvé Alice de Casanove (Airbus) - Return of experience regarding Innovation management ISO 56000 series: Implementation in a large organization - see more Remote Link: Auditorium			
2:30pm - 4:00pm	IE4-1: Human, Socio-Economic and Culture Issues Location: Room 103 - Centre Prouvé Chair: Fedoua KASMI , Université de Lorraine, France Remote link: Room 103 on Microsoft Teams Turnover Intention of High-Tech Industry Managers: A Push-Pull-Mooring Model Chih-Hung Hsieh , Cheng-Ru Hu, Chu-Yun Teng College of Management, Yuan Ze University, Taiwan	IE6-2: Living-Labs & Open-Innovation Location: Room 104 - Centre Prouvé Chair: Laurent DUPONT , Université de Lorraine, France Remote link: Room 104 on Microsoft Teams User-centered prototypes-insights from a design thinking workshop series <u>Laura Christina Rehberg</u> University of Stuttgart, Germany	IE11-1: Sustainability in Innovation & Entrepreneurship Location: Room 105 - Centre Prouvé Chair: Brunelle MARCHE , Université de Lorraine, France Remote link: Room 105 on Microsoft Teams Contributing to monitoring and evaluation practices by conceptualizing a Valuable Insights from Log Analysis (VILA) Framework. <u>Ane van Schalkwyk</u> ¹ , Sara Grobbelaar ² , Euodia Vermeulen ³ , Marlien Herselman ⁴ 1: Department of Industrial Engineering, Stellenbosch University, South Africa; 2: Department of Industrial Engineering, Stellenbosch University AND DSI-NRF Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy (SciSTIP) Stellenbosch University; 3: Department of Industrial Engineering, Stellenbosch University, South Africa; 4: Department of Industrial Engineering Stellenbosch University AND Next Generation Enterprises and Institutions CSIR Pretoria, South Africa	TEC3-2: Technology on Education and Training Location: Room 202 - Centre Prouvé Chair: Raphaël BARY , Université de Lorraine, France Remote link: Room 202 on Microsoft Teams An Investigation into the Challenges and Solutions of e-learning in Tertiary Institutions during the COVID-19 Pandemic <u>Chandini Singh</u> , Schalk Grobbelaar Department of Engineering and Technology Management, University of Pretoria, South Africa
	Implementing the systemic approach supporting territorial resilience: the case of the 'Toile' tool. Mathilde SCHWOB ¹ , Fedoua KASMI ¹ , Laurent DUPONT ¹ , Jean-François VEREECKE ² , Claudine GUIDAT ¹ 1: Université de Lorraine, ERPI Laboratory, France; 2: Agence d'Urbanisme et de Développement de la Région Flandre-Dunkerque (AGUR), France	An investigation of design in virtual reality across the variation of training degree and visual realism <u>Sylvain Fleury</u> ¹ , Laurent Dupont ² , Noémie Chaniaud ¹ , Saadallah Tamazart ² , Benjamin Poussard ¹ , Geoffrey Gorisse ¹ , Simon Richir ¹ 1: Arts & Metiers Institute of Technology LAMPA, HESAM University F-53810 Change, France; 2: Université de Lorraine ERPI F-54 000 Nancy, France		Experiences and challenges with pandemic online learning Acelya Özkan , Katja Josenhans, Layana Berendt, <u>Ludwig Martin</u> Pforzheim University, Germany
	THE MAKING OF SOCIAL ENTREPRENEURS:	Designing a group decision-making tool under Living Lab project		A Framework for Outsourcing Maintenance in the Era of Industry 4.0 within the

	<p>EMPIRICALLY TESTING THE SOCIAL ENTREPRENEURIAL INTENTION MODEL.</p> <p><u>Preeti Tiwari</u>¹, B. KOTESWARA RAO Naik²</p> <p>1: Jindal Global Business School; 2: NITIE Mumbai</p>	<p>mode: The case of ConsensusUs</p> <p><u>Maxence Arnould</u>¹, Manon Enjolras², Mauricio Camargo²</p> <p>1: AgroParisTech - INRAE - UMR SILVA, Nancy, France; 2: Université de Lorraine - ERPI, Nancy, France</p>	<p>Building PSS-based circular business model canvases: an application in the waste from electrical and electronic equipment context</p> <p><u>Claudio Sassanelli</u>¹, <u>Paolo Rosa</u>², <u>Sergio Terzi</u>², <u>Giorgio Mossa</u>¹</p> <p>1: Politecnico di Bari, Italy; 2: Politecnico di Milano, Italy</p>	<p>Petrochemical Industry</p> <p><u>Sello Mollo</u>¹, Leon Pretorius², Jan Harm C Pretorius¹</p> <p>1: University of Johannesburg, South Africa; 2: University of Pretoria, South Africa</p>
	<p>A literature-based categorization model of individual innovation capabilities to boost organizations' innovation capacities</p> <p><u>Mariela Martinez</u>, Laure Morel, Manon Enjolras</p> <p>Univerisité de Lorraine, Costa Rica</p>		<p>Household support to adopt preventive innovations to mitigate climate change: A case of Finnish apartment buildings</p> <p><u>Deborah Karen Kuperstein-Blasco</u>¹, <u>Jussi Valta</u>¹, <u>Saku Mäkinen</u>²</p> <p>1: Tampere University, Finland; 2: University of Turku, Finland</p>	<p>Adoption of mobile applications to improve the reading habits of rural readers in southern Africa's secondary schools.</p> <p><u>Nkomo Sifundo</u>¹, <u>Walter Matli</u>²</p> <p>1: University of South Africa; 2: University of South Africa</p>
			<p>Enabling the citizen-driven renewable energy transition</p> <p><u>Antonia Krebs</u>, Björn Koch</p> <p>COAST Centre for Environment and Sustainability Research, University of Oldenburg, Germany</p>	<p>Is there education with the closed school? Long-term impacts on Emergency Remote Education (ERE)</p> <p><u>Lilian Schreiner Módolo</u>¹, <u>Luiz Augusto Módolo</u>², <u>Edna Barbosa dos Santos</u>³</p> <p>1: USP, Brazil; 2: USP, Brazil; 3: Faculdades Dom Bosco, Brazil</p>
	<p>ENG4-1: Sustainable Engineering</p> <p>Location: Room 203 - Centre Prouvé</p> <p>Chair: <u>Alaa Hassan</u>, Université de Lorraine, France</p> <p>Remote link: Room 203 on Microsoft Teams</p> <p>The Forest Industry and Development Within South Africa and Other Southern African Development Community Countries</p> <p><u>Karen Louise Schmidt</u>¹, <u>Wouter Gideon Bam</u>¹, <u>Philani Nduna Zincume</u>¹, <u>Karolien De Bruyne</u>^{1,2}</p> <p>1: Stellenbosch University, South Africa; 2: KU Leuven, Belgium</p>	<p>ECTP1: Smart Construction & Built Environment</p> <p>Location: Room 204 - Centre Prouvé</p> <p>Chair: <u>Alain ZARLI</u>, ECTP & R2M Solution, France</p> <p>Chair: <u>Sylvain Kubicki</u>, Luxembourg Institute of Science and Technology, Luxembourg</p> <p>Remote link: Room 204 on Microsoft Teams</p> <p>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</p> <p><u>Ruth Wallace</u>, <u>Yacine Rezgui</u>, <u>Ali Ghoroghi</u></p> <p>Cardiff University, United Kingdom</p>	<p>ENG12-2: SCM 4.0</p> <p>Location: Room 205 - Centre Prouvé</p> <p>Chair: <u>Mauricio Camargo</u>, University of Lorraine, France</p> <p>Remote link: Room 205 on Microsoft Teams</p> <p>Quantifying the Environmental Impacts of Battery Electric Vehicles from a Criticality Perspective</p> <p><u>Fernando Penaherrera V.</u>¹, <u>Maria Fernanda Davila Restrepo</u>¹, Dr. Ing. <u>Alexandra Pehlken</u>¹, Björn Koch²</p> <p>1: OFFIS e.V. - Institut für Informatik, Germany; 2: Carl von Ossietzky Universität Oldenburg</p>	
	<p>Impact of automation during innovative remanufacturing processes in circular economy</p>	<p>Evidencing the correlation between training and energy efficiency through a</p>	<p>Design of an optimised value creation network for zero emission ferries</p> <p><u>Jan-Philipp Disselkamp</u>¹, <u>Tobias Seidenberg</u>¹, <u>Harald Anacker</u>¹, <u>Roman Dumitrescu</u>²</p>	

	<p>Perla Nohra¹, Helmi Ben Rejeb², Swaminath Venkateswaran³ 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</p>	<p>sociotechnical perspective: use cases and measurable scenarios Professor Yacine Rezgui¹, Dr. Ioan Petri², Irini Barbero³ 1: Cardiff University; 2: Cardiff University; 3: Cardiff University</p>	<p>1: Fraunhofer Research Institute for Mechatronic Systems Design IEM, Germany; 2: Heinz Nixdorf Institute, University of Paderborn</p>
	<p>Design of Circular Economy Enhancing Journeys for Automotive Manufacturing Industry Siro Dell'Ambrogio, Silvia Menato, Jennifer Nika, Luca Canetta, Marzio Sorlini SUPSI</p>	<p>Implementation of a digital twin framework in the modular housing industry Anne Fischer¹, Jorge Rodriguez Llorens¹, Zhen Cai¹, Michael Wilke², Stephan Kessler¹, Johannes Fottner¹ 1: Technical University of Munich, Germany; 2: Max Bögl Modul AG, Germany</p>	<p>Integrated Digital System in Planning, Scheduling and Logistics Processes at a Petroleum Company Buhle Sihlali, Arnesh Telukdarie University of Johannesburg, South Africa</p>
	<p>Sustainable Gardens for Smart Cities using Low-Power Communications Bruno Mota, Bruno Mataloto, Carlos Coutinho ISCTE-IUL, Lisbon, Portugal</p>		
4:00pm - 4:30pm	<p>Coffee Break Location: Foyer 850 (Hall) - Centre Prouvé</p>		
4:30pm - 6:00pm	<p>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 Microsoft Teams</p> <p>Determinants of Manpower Utilisation in Manufacturing Firms Victor Oluwasina Sobanke National Centre for Technology Management, Nigeria</p>	<p>IE6-3: Living-Labs & Open-Innovation Location: Room 104 - Centre Prouvé Chair: Marc Pallot, Arts & Metiers ParisTech, France Remote link: Room 104 on Microsoft Teams</p> <p>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</p>	<p>IE11-2: Sustainability in Innovation & Entrepreneurship Location: Room 105 - Centre Prouvé Chair: Dominique Jolly, France Remote link: Room 105 on Microsoft Teams</p> <p>Exploring the demands of energy management service for the manufacturing firms Phil Yang¹, Yichang Yang² 1: National Taichung University of Education, Taiwan; 2: Shih Chien University, Taiwan</p>
			<p>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</p> <p>Concept of a business-process-related digital twin based on systems theory and operational excellence Markus Rabe, Emre Kilic Technische Universität Dortmund, Germany</p>
	<p>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</p>	<p>Aligning Open Engineering Practices Matjaz Vidmar The University of Edinburgh, United Kingdom</p>	<p>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</p>
		<p>What do we learn in a living lab ? Valentine Labouheure, Raphaël Bary, Laure Morel ERPI- Université de Lorraine, France</p>	<p>Towards a Strategic Decision Support Tool</p>
	<p>Entrepreneurial Motivation: An</p>		

<p>Exploratory Study of Gender and Venture Types</p> <p>Rebecca Off¹, Kevin Reuther², Guido Baltes¹ 1: Konstanz University of Applied Sciences; 2: University of Leipzig</p>	<p>Smart Campus: Concepts, development and future</p> <p>Juan Arenas¹, Pedro Palominos¹, Rodrigo Martin¹, Mauricio Camargo², Raphael Bary², Héctor Kaschel¹ 1: Universidad de Santiago de Chile; 2: University of Lorraine, France</p>	<p>for Innovation Ecosystems Stakeholder Management</p> <p>Luca Carinus¹, Chipo Nancy Ngongoni¹, Sara {Saartjie} Grobbelaar^{1,2} 1: Department of Industrial Engineering, Stellenbosch University, South Africa; 2: DSI-NRF CoE in Scientometrics and Science, Technology and Innovation Policy (sciSTIP)</p>	<p>Using Data analytics to explore opportunities of Lean assessments</p> <p>Rostyslav Pietukhov, Mujthaba Ahtamad The University of Warwick, United Kingdom</p>
<p>Electricity Productivity in Socio-Economic Context: A Country-Level Analysis</p> <p>Heidy Noelia Montero Teran¹, Matteo Bulleri², Diellza Salihu², Piotr Krawczyk¹, Marcin Topolewski³, Marc Pallot⁴ 1: JAMK University of Applied Sciences, Finland; 2: LUT University; 3: Warsaw School of Economics SGH; 4: Nottingham University Business School</p>		<p>Digitalization and Sustainability in Strategic Management: Research Agenda toward Dual Transformation</p> <p>Christian Kürpick¹, Roman Dumitrescu², Tommy Falkowski¹, Christian Fechtelpeter¹, Arno Kühn¹ 1: Fraunhofer Institute for Mechatronic Systems Design IEM, Germany; 2: Heinz Nixdorf Institute / University of Paderborn, Germany</p>	<p>A Resilience Framework for Digital Transformation in the Banking Sector: A Systems Thinking Approach</p> <p>Dumisani Manzini, Rudolph Oosthuizen, Hilda Chikwanda University of Pretoria, South Africa</p>
<p>TEC6: Green Tech Location: Room 202 - Centre Prouvé Chair: Giovanny Arbelaez-Garces, Université de Lorraine, France Remote link: Room 202 on Microsoft Teams</p>	<p>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</p>	<p>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</p>	<p>BCCMS, Authorization Through an Approach for a Blockchain Based Electronic Cards Management System</p> <p>Ahmed Mohamed Maghawry¹, Amr Elhadidi², Mohamed Kholief³ 1: EFinance; 2: EFinance; 3: ESLSCA</p>
<p>Identification of sensor technologies with the potential to support roadside ecosystem services</p> <p>Brice Corrigeux¹, Brunelle Marche¹, Mauricio Camargo¹, Christophe Bachmann², Clémence Chaudron³ 1: Université de Lorraine, ERPI, F-54000 Nancy, France; 2: NOREMAT S.A, F-54710 Ludres, France; 3: UMR 1434 SILVA, Université de Lorraine, AgroParisTech, INRAE, Faculté des Sciences et Technologies, F-54506, Vandœuvre les Nancy, France</p>	<p>The Impact of Total Productive Maintenance on Performance in The South-African Food Manufacturing Industry</p> <p>Andre Vermeulen, Jacques Weidemann, Jan Harm C Pretorius University of Johannesburg, South Africa</p>	<p>Digital technologies to advance circular economy at territorial level: challenges and solutions</p> <p>Ghada Bouillass, Michael Saidani, José Lamah, Bernard Yannou Université Paris Saclay CentraleSupélec, Laboratoire Genie Industriel</p>	
<p>System Dynamics Modeling for Smart and Collaborative Last Mile Networks</p> <p>Anna-Maria Nitsche^{1,2}, Bogdan Franczyk^{1,3},</p>		<p>Sustainable Renovation through Modular semantic prefabrication</p> <p>Yacine Rezgui¹, Salima Hamini², Abdelkader Ramdani²</p>	

	<p>Green Technology: Consumer purchase intention of electric vehicles in India</p> <p><u>Johnsi Priya</u>¹, <u>Bhukya Koteswararao Naik</u>², <u>Deepesh Kaushik</u>²</p> <p>1: Meston College of Education, Chennai, India; 2: National Institute of Industrial Engineering Mumbai, India</p>	<p>Christian-Andreas Schumann²</p> <p>1: University of Leipzig, Germany; 2: University of Applied Sciences Zwickau, Germany; 3: Wrocław University of Economics, Poland</p>	<p>1: Cardiff University, United Kingdom; 2: Bureau d'Etudes Techniques, Algeria</p>
	<p>An Integrated Geographical Information and Road Asset Management System for road transport network sustainability in developing countries.</p> <p><u>Raphael Kafui Natsui</u>¹, <u>Kingsford Kissi Mireku</u>², <u>Emmanuel Sasu</u>³, <u>Gustave Kojo Gameli Amuzu</u>²</p> <p>1: Ghana Institute of Management and Public Administration; 2: Central University; 3: University of Ghana</p>	<p>Applying a Sustainable Business Model for Companies Creating Manufacturing Shared Value with Base of the Pyramid Suppliers</p> <p><u>Zviemurwi Johnny Chihambakwe</u>¹, <u>Sara {Saartjie} Grobbelaar</u>^{1,2}, <u>Stephen Matope</u>¹</p> <p>1: Department of Industrial Engineering, Stellenbosch University, South Africa; 2: DSI-NRF Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy (SciSTIP)</p>	<p>SemanticLCA: A new generation of life cycle assessment methods applied to buildings</p> <p><u>Abdulrahman Fnais</u>, <u>Ali Ghoroghi</u>, <u>Yacine Rezgui</u>, <u>Thomas Beach</u>, <u>Ioan Petri</u></p> <p>Cardiff University, United Kingdom</p>
	<p>Literature Development Trajectory of LED Smart Street Lighting by Main Path Analysis</p> <p><u>Kuel-Kuel Lai</u>, <u>Adam Kao-Wen Weng</u>[*], <u>Hsiao-Yun Chang</u></p> <p>Chaoyang University of Technology, Taiwan</p>	<p>Risk management of the rehabilitation of a communal facility on dolomitic land: a South African case study</p> <p><u>Tshepiso Mollo</u>¹, <u>Leon Pretorius</u>², <u>Jan Harm C Pretorius</u>¹</p> <p>1: University of Johannesburg, South Africa; 2: University of Pretoria, South Africa</p>	<p>Aligning IFC and SRI domains for BIM supported SRI assessment</p> <p><u>Calin Boie</u>, <u>Sylvain Kubicki</u>, <u>Annie Guerriero</u>, <u>Sebastien Thomas</u></p> <p>Luxembourg Institute of Science and Technology (LIST), Luxembourg</p>
	<p>Green Technology Readiness of Telecommunication Firms in India: An Exploratory Study</p> <p><u>Shikha Sargam</u>, <u>Ruchita Gupta</u></p> <p>NITIE, India</p>		
7:00pm	<p>Social Event: Visit & Welcoming Cocktail</p> <p>Location: Musée des Beaux-Arts</p> <p>19:00 - 20:30 - Visit Musée des Beaux-Art Nancy</p> <p>20:30 - 21:45 - Welcome speeches by the IAMOT and ICE Presidents / representatives & Cocktail</p> <p>(Access by registration only) How to join us / move in Nancy</p> <p>https://www.google.com/maps/d/edit?mid=1qYCYo6cg4Meqk1aQow9rfPGGsUOtV_9&usp=sharing</p>		

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	Keynote 3 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			
9:40am	IE2-2: Digital Innovation Management Location: Room 103 - Centre Prouvé Chair: Frédérique Mayer , Université de Lorraine, France Remote link: Room 103 on Microsoft Teams	IE13-1: Technology Foresight and Forecasting Location: Room 104 - Centre Prouvé Chair: Breno Nunes , University of Aston, United Kingdom Remote link: Room 104 on Microsoft Teams	IE3: Digital Social Networks Location: Room 105 - Centre Prouvé Chair: Sophie Boutillier , University of Littoral Côte d'Opale, France Remote link: Room 105 on Microsoft Teams	IE7-4: R&D, Innovation and Entrepreneurship Location: Room 106 - Centre Prouvé Chair: Ferney Osorio , UNIVERSITÉ DE LORRAINE, France Remote link: Room 106 on Microsoft Teams
10:40am	Scrum's Methodology adaptations to meet the teleworking needs experienced by Software Development Teams Luís Fernando Gama¹, Ana Correia Simões² 1: School of Economics and Management, University of Porto, Porto, Portugal; 2: INESC TEC - Institute for Systems and Computer Engineering, Technology and Science, Centre for Enterprise Systems Engineering Porto, Portugal	Linking innovation dynamics with scientific knowledge of climate change mitigation technologies Bhukya Koteswararao Naik¹, Rahul Mishra¹, Vasu Choudhary² 1: NITIE, India; 2: IGNTU, India	Transition to Remote Work: Peculiarities of Social Networks Use Vida Davidavičienė, Sigita Davidavičiūtė, Aurelija Burinskienė Vilnius Gediminas Technical University, Lithuania	Benefiting from the Power of the Crowd: Contribution of the Crowds to the Idea Evaluation Phase ahmet cubukcu¹, özlem akarçay², tuba ulusoy¹ 1: necmettin erbakan university; 2: Kto karatay university
	Design or Redesign Business Models' Innovation in the Digital Transformation Context Patrick Ratté, Elaine Mosconi, Leandro Feitosa Jorge Université de Sherbrooke, Canada	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	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 1: University of Littoral Côte d'Opale, France; 2: University of Littoral Côte d'Opale, France	Understanding inclusive innovation in informal economy, a conceptual model Milena Legarda-López¹, María Luisa Villalba², Walter Ruiz-Castañeda¹ 1: Facultad de Minas, Universidad Nacional de Colombia, Medellín, Colombia; 2: Facultad de Ciencias Económicas y Administrativas, Universidad Católica de Oriente, Rionegro, Colombia
	Innovation Management in Firms: A Review and Research Agenda Surabhi Singh, Sanjay Dhir, Mayur Chikhale Indian Institute of Technology Delhi, India	Technology Roadmapping and 4IR in Defence: Case of Command and Control Systems Andries Linda Malinge^{1,2}, Alwyn Strauss³, Petrus Letaba¹, Marthinus W. Pretorius¹ 1: University of Pretoria, South Africa; 2: Council for Scientific and Industrial Research (CSIR), South Africa; 3: Private Consultancy, South Africa	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	A Research on Iterability of Value Dimension Change in New Product Development Process Kiyohiro Yamazaki Tohoku University, Japan
	ENG5-2: Rethinking Project Management Location: Room 202 - Centre	ENG1-1: ICT for health care Location: Room 204 -	TEC7: Commercializing Technology Location: Room 205 -	

	<p>Prouvé Chair: Brunelle MARCHE, Université de Lorraine, France Remote link: Room 202 on Microsoft Teams</p> <p>Comparison of Manufacturing/Remanufacturing CO2 emissions balance: application to a mowing machine Brunelle MARCHE¹, Diego Nicolas PARRADO RODRIGUEZ¹, Olivier CHERY¹, Mauricio CAMARGO¹, Christophe BACHMANN² 1: Université de Lorraine, ERPI F-54000 Nancy, France; 2: NOREMAT S.A, F-54710 Ludres, France</p>	<p>Centre Prouvé Chair: James Fleck, University of Edinburgh Business School, United Kingdom Remote link: Room 204 on Microsoft Teams</p> <p>Sustainable Design of IT Systems with Digital Twins – Principles, Application Areas and Advantages Rainer Lutze Dr.-Ing. Rainer Lutze Consulting, Germany</p>	<p>Centre Prouvé Chair: Joe Amadi-Echendu, University of Pretoria, South Africa Remote link: Room 205 on Microsoft Teams</p> <p>Technology backcasting: Retrospective case studies from mining and mineral processing Joe Amadi-Echendu, Pavlen Govender, Magretha Vlok University of Pretoria, South Africa</p>	
	<p>Collaborative capacity of open source hardware communities: A cross-sectional study Robert Mies¹, Jérémy Bonvoisin² 1: Technische Universität Berlin, Institute for Machine Tools and Factory Management, Germany; 2: Without affiliation</p>	<p>DESIGN OF AN ULTRASOUND IMAGE GUIDED ROBOT THAT DRAWS BLOOD FROM VEINS Tawanda Mushiri¹, Victor Pavari², Habib Noorbhai¹ 1: University of Johannesburg, South Africa; 2: University of Zimbabwe</p>	<p>IPR ECOSYSTEM IN DEVELOPING COUNTRIES: A CASE STUDY OF AN INSTITUTE OF EMINENCE Shubham Anand, Priyadarshini Singh, Gouri Ashok Gargate IIT Kharagpur, India</p>	
	<p>Joint-design of products and supply chain in a context of innovation Brunelle MARCHE¹, Vincent BOLY¹, J. Roland ORTT², Laure MOREL¹ 1: Université de Lorraine, ERPI F-54000 Nancy, France; 2: Delft University of Technology Faculty of Technology Policy and Management, Delft, Netherlands</p>	<p>The benefits and challenges of Implementing Smart hospital projects: A systematic review Eveth Nkeiruka Nwobodo-Anyadiegwu, Mira Ditend, Alice Kabamba Lumbwe University of Johannesburg, South Africa</p>	<p>The adoption of Scaled Agile Framework (SAFe) in non-agile organizations. Kwete Mwana Nyandongo, Mmammule Grace Madumo University of Johannesburg, South Africa</p>	
10:40am - 11:00am	<p>Coffee Break Location: Foyer 850 (Hall) - Centre Prouvé</p>			
11:00am - 12:30pm	<p>IE2-1: Digital Innovation Management Location: Room 103 - Centre Prouvé Chair: Eric Bonjour, Université de Lorraine, France Remote link: Room 103 on Microsoft Teams</p> <p>Ethical Considerations of Artificial Intelligence: Ensuring Fairness, Transparency, and Explainability Haroon Abbu¹, Paul Mugge², Gerhard Gudergan³ 1: Bell and Howell; 2: NC State University; 3: RWTH Aachen University</p> <p>Becoming Holy Grail of Health on the Move: Identifying and Prioritizing Factors Affecting</p>	<p>IE13-2: Technology Foresight and Forecasting Location: Room 104 - Centre Prouvé Chair: Roland Ortt, Delft University of Technology, Netherlands, The Remote link: Room 104 on Microsoft Teams</p> <p>Identification and evaluation of development paths for technology-oriented industrial companies in structural transformation processes Alessandro Sala, Arko Steinwender, Peter Schieder, Wilfried Sihm Fraunhofer Austria Research GmbH, Austria</p>	<p>TEC2-1: Industry 4.0 Location: Room 105 - Centre Prouvé Chair: Adriana Simona Mihaita, UNIVERSITY OF TECHNOLOGY SYDNEY, Australia Remote link: Room 105 on Microsoft Teams</p> <p>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</p>	<p>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</p> <p>P2B Methodology: from patents to business Gabriela Fernandes^{1,2}, Pedro Lucas¹, Ana Correia Simões³, Gustavo Dalmarco³ 1: University of Coimbra, Department of Mechanical Engineering; 2: CEMMPRE, Department of Mechanical Engineering; 3: Coimbra, Portugal;</p>

<p>the Commercialization of m-Health</p> <p>Saeedeh Ghoochkanloo, Mohammad Naghizadeh, Mehdi Goodarzi</p> <p>Allameh Tabataba'i University, Iran, Islamic Republic of</p>	<p>Towards a Framework to Assess the Impact of Innovative Transportation Technologies</p> <p>Heiko Duin</p> <p>BIBA - Bremer Institut für Produktion und Logistik GmbH, Germany</p>	<p>Multi-objective modelling of a roadside mowing problem: a case study in France</p> <p>Adriana-Simona MIHAITA¹, Brunelle MARCHE², Mauricio CAMARGO², Iman RAHIMI¹, Christophe BACHMANN³</p> <p>1: University of Technology Sydney, Sydney, Australia; 2: Université de Lorraine, ERPI F-54000 Nancy, France; 3: NOREMAT S.A.</p>	<p>INESC TEC - Institute for Systems and Computer Engineering, Technology and Science Centre for Enterprise Systems Engineering Porto, Portugal</p>
<p>Digital Technology and the Stages of Digital Business Transformation</p> <p>Irmak Mutlu, Erik den Hartigh, Caglar Ucler</p> <p>Ozyegin University, Turkey</p>	<p>Socio-technical Transitions and the Fourth Industrial Revolution: The need for an integrated analysis.</p> <p>Martha Mukama Asiiimwe, Prof. Imke H. de Kock</p> <p>Stellenbosch University, South Africa</p>	<p>The use of 4IR technologies to improve the IT auditor's job function</p> <p>KM Nyandongo, SS Pillay</p> <p>University of Johannesburg, South Africa</p>	<p>INNOVATION CAPABILITIES IN PANDEMIC TIMES: EVIDENCE FROM RESILIENT MANUFACTURING FIRMS IN BRAZIL</p> <p>Ariane Melo Silva Ávila, Denise Barbieux, Ricardo Machado Leo, Guilherme Freitas Camboim, Paulo Antônio Zawislak</p> <p>Federal University of Rio Grande do Sul, Brazil</p>
<p>Coopetition: A Critical Review and Directions for Future Research</p> <p>Abhilasha Meena, Sanjay Dhir, Sushil Sushil</p> <p>Indian Institute of Technology Delhi, India</p>	<p>The constitution of technology as an institutional order</p> <p>Alana Bauer Lacerda, Fernando Lopes</p> <p>Universidade Federal do Rio Grande do Sul, Brazil</p>	<p>Speech Assistance: Use cases in Industry</p> <p>Manfred Langen</p> <p>Siemens AG, Germany</p>	<p>Leapfrogging into the Fourth Industrial Revolution: Lessons from Promising Practices</p> <p>Evah Phago, Petrus Letaba</p> <p>Department of Engineering and Technology Management, University of Pretoria, South Africa</p>
<p>ENG5-1: Rethinking Project Management</p> <p>Location: Room 202 - Centre Prouvé</p> <p>Chair: Robert Bierwolf, IEEE TEMS, Netherlands, The</p> <p>Remote link: Room 202 on Microsoft Teams</p> <p>UNCERTAINTIES MANAGEMENT FROM THE HARD AND SOFT APPROACH, IN PROJECTS OF BRAZILIAN AEROSPACE SECTOR</p> <p>Teresa Raquel Domingos^{1,2}, Milton Chagas¹</p> <p>1: INPE - Instituto Nacional de Pesquisas Espaciais, Brazil; 2: EMBRAER S.A</p>	<p>ENG3-2: Service Design and Engineering</p> <p>Location: Room 203 - Centre Prouvé</p> <p>Chair: Abdul Rahman Abdel Razek, FARO Technologies Europe GmbH, Germany</p> <p>Remote link: Room 203 on Microsoft Teams</p> <p>Analysis of Failure Mode Effects of the Traction Motor</p> <p>Bayanda Kunene, Arneshtel Telukdarie</p> <p>University of Johannesburg, South Africa</p>	<p>ENG1-2: ICT for health care</p> <p>Location: Room 204 - Centre Prouvé</p> <p>Chair: Imke De Kock, Stellenbosch University, South Africa</p> <p>Remote link: Room 204 on Microsoft Teams</p> <p>Development of a leanness assessment tool for hospitals</p> <p>Bronwyn Joubert, Wouter Bam</p> <p>Stellenbosch University, South Africa</p>	<p>ENG14: Smart Services and Software Platforms</p> <p>Location: Room 205 - Centre Prouvé</p> <p>Chair: Frédérique Mayer, Université de Lorraine, France</p> <p>Remote link: Room 205 on Microsoft Teams</p> <p>A Study of Adoption and Effects of DevOps Practices</p> <p>Tyron Offerman, Robert Blinde, Christoph Johann Stettina, Joost Visser</p> <p>LIACS, Leiden University, Niels</p>

		<p>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</p>	<p>Managing structural integrity of pipelines utilizing inline inspection data Cynthia Ntombizanele Mbele, Humna Hassan Malik, Jan Harm Pretorius Rand Water, South Africa</p>	<p>Co-Design for Gender Equality in an AI-Based Virtual Assistant for Intensive Care Units Nicola Marsden¹, Suchanda Bhattacharyya², Janine Meyer-Christodoulou², Lukas Martin², Arne Peine² 1: Heilbronn University, Germany; 2: Clinomic GmbH, Aachen, Germany</p>	<p>Bohrweg 1, 2333 CA Leiden, The Netherlands</p>
		<p>Managing Projects More Successful: Evaluation of a Concept for Implementing Critical Success Factors in Practice Maximilian Schöberl¹, Simone Tuyisabe¹, Christoph Hollauer², Johannes Fottner¹ 1: Technical University of Munich, Germany; 2: Wacker Neuson SE, Germany</p>	<p>Developing a Rapid Service Prototyping Framework Daniela Fehrenbach¹, Abdul Rahman Abdel Razek², Christian van Husen¹ 1: Hochschule Furtwangen University, Germany; 2: FARO Technologies</p>	<p>The Healthcare Data Management Maturity Model (HDM3) for the assessment of healthcare data management in developing countries Laubscher van der Merwe^{1,2}, Imke de Kock¹, Wouter Bam¹ 1: Stellenbosch University, South Africa; 2: CSIR, South Africa</p>	<p>Cyclical Transformation of Value Creation for Smart Services Jannik Reinhold¹, Christian Koldewey¹, Roman Dumitrescu² 1: University of Paderborn, Germany; 2: Fraunhofer IEM, Paderborn, Germany</p>
			<p>From need to requirement: a methodological contribution Vincent BOLDY, Brunelle MARCHE, Davy MONTICOLA, Manon ENJOLRAS, Frédérique MAYER Université de Lorraine / ERPI, France</p>	<p>Investigating the integration of public and private pharmaceutical supply chains Jessica Botes, Wouter Bam, Imke de Kock Stellenbosch University, South Africa</p>	<p>A Systematic Review of Concepts and Future Directions of Platform Ecosystem Development Chibuike Cornelius Mbanefo^{1,3}, Sara Saartjie Grobbelaar^{1,2} 1: Department of Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa; 2: DSI-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</p>
					<p>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</p>
12:30pm - 1:30pm	Lunch	Location: Foyer 850 (Hall) - Centre Prouvé			
1:30pm - 2:30pm	Keynote 4	Location: Auditorium 300 - Centre Prouvé			
	Joshua Pearce (Western University, Canada) - Open source appropriate technology (OSAT): Finding collaborative solutions to problems in sustainability and poverty reduction	Remote Link: Auditorium			

2:30pm - 4:00pm	RT-01: Innovation in public Administration Location: Auditorium 300 - Centre Prouvé Chair: Vincent BOLDY , 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 Service, Academics Supported by the City of Nancy, Territoire, RNI Remote Link: Auditorium	IE8: Regional competitiveness policy and smart specialization strategies Location: Room 103 - Centre Prouvé Chair: Paulo Antônio Zawislak , UFRGS, Brazil Remote link: Room 103 on Microsoft Teams Topics: a Python package for the Input-Output Product Space methodology <u>Michael Jacobus Du Plessis</u> , Wouter Gideon Bam Stellenbosch University, South Africa	TEC2-2: Industry 4.0: Digital Innovation management and applications of AI Location: Room 105 - Centre Prouvé Chair: Giovanny Arbelaez-Garces , Université de Lorraine, France Remote link: Room 105 on Microsoft Teams Human-in-the-loop: Explainable or accurate artificial intelligence by exploiting human bias? <u>Laura Valtonen¹</u> , Saku J. Mäkinen² 1: Tampere University, Finland; 2: University of Turku, Finland	IE7-2: 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 Teams Foreign direct investment and host firms' technology development: The moderating role of overall and STEM education <u>Jihoon Shin¹</u> , Miguel Amaral² , Ana Cristina Barros³ , M. Granger Morgan¹ 1: Carnegie Mellon University, United States of America; 2: Instituto Superior Técnico, Portugal; 3: INESC TEC, Portugal
		Technology transfer, productive restructuring, and reindustrialization processes. Experience of the Mexican Bajío region <u>Lorena del Carmen Álvarez-Castañón¹</u> , Pilar Arroyo-López² , Rocío Alfonsina Lizarraga-Morales¹ , Gema González-Romero³ 1: Universidad de Guanajuato; 2: Tecnológico de Monterrey, EGADE Business School; 3: Universidad de Sevilla	Assessing the effectiveness of the scrum framework and its successful implementation <u>Mmule Rebecca Madumo</u> , Kwete Mwana Nyandongo University of Johannesburg, South Africa	The Difference between Exporter and Non-exporter Knowledge-based firms; Capabilities Analysis Approach Case study: Knowledge-based firms in the sector of chemical technology <u>Mohammad Torabi Khargh¹</u> , 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 <u>Aurelija Burinskienė</u> Vilnius Gediminas technical university, Lithuania	Towards a Protocol for Preference Evaluation of Cosmetic Products Using Physiological Sensors Javier Miranda-Mellado¹ , Juliana Serna¹ , Giovanny Arbelaez-Garces¹ , Javier A. Arrieta-Escobar² , Véronique Sadtler² , Mathieu Kacha³ 1: Equipe de Recherche des Processus Innovatifs (ERPI-ENSGSI), Université de Lorraine, France; 2: Laboratoire Réactions et Génie des Procédés (CNRS-LRGP-ENSIC), Université de Lorraine, France; 3: Centre Européen de Recherche en Économie Financière et Gestion des Entreprises (CEREFIGE), Université de Lorraine, France	Management of Technological Convergence in New Technology-Based Firms Leandro Lepratte , Rafael Blanc , Daniel Hegglin , Maria Alejandra Rodriguez , Leonardo Ruhl Universidad Tecnológica Nacional, Argentina Republic
		THE ROLE OF DEDICATED ORGANIZATIONS IN THE GOVERNANCE OF SMART CITY DEVELOPMENT: A MULTIPLE CASE STUDY Guilherme Freitas Camboim , Nathália Amarante Pufal , Denise Barbieux , Paulo Antonio Zawislak NITEC/UFRGS, Brazil	Assessment Model to Support the Technological Integration within Industrial Companies	

<p>ENG10-1: Industrial Internet & Industry 4.0 Location: Room 202 - Centre Prouvé Chair: Abdul Rahman Abdel Razek, FARO Technologies Europe GmbH, Germany Remote link: Room 202 on Microsoft Teams</p> <p>The Role of Data within The Service Prototyping Design Dimensions <u>Abdul Rahman Abdel Razek</u>³, Daniela Fehrenbach¹, Marc Pallot², Christian van Husen¹, Simon Richir² 1: Furtwangen University, Germany; 2: Arts et Métiers ParisTech; 3: FARO Technologies</p>	<p>ENG3-1: Service Design and Engineering Location: Room 203 - Centre Prouvé Chair: hakim boudaoud, Université de Lorraine, France Remote link: Room 203 on Microsoft Teams</p> <p>Analysis of Impact of Maintenance Practices on Road Infrastructure Khumbelo Bele, <u>Megashnee Munsamy</u>, Arnesh Telukdarie University of Johannesburg, South Africa</p>	<p>in the Context of Industry 4.0 <u>Neal Widmer</u>, Alaa Hassan, Davy Monticolo Equipe de Recherche sur les Processus Innovatifs, Université de Lorraine, France</p> <p>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</p> <p>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</p>	<p>An Empirical Analysis of High Technology Manufacturing Segments of India's Export sector <u>Amrutha Mary Varkey</u> University of Warsaw, Poland</p>
<p>The Integration of Industry 4.0 in Healthcare Quality Improvement Eveth Nkeiruka Nwobodo-Anyadiiegwu, Deborah Baraka Tambwe, <u>Alice Kabamba Lumbwe</u> University of Johannesburg, South Africa</p>	<p>Assessment of the Effectiveness of Speed Humps as Traffic Calming for Accident Reduction in Durban, South Africa <u>Lemo Andrew Monyatsi</u> Road Traffic Management Corporation, South Africa</p>	<p>Gamification for Smart and Collaborative Last Mile Networks Knowledge Transfer <u>Anna-Maria Nitsche</u>^{1,2}, <u>Bogdan Franczyk</u>^{1,3}, Christian-Andreas Schumann² 1: University of Leipzig, Germany; 2: University of Applied Sciences Zwickau, Germany; 3: Wrocław University of Economics, Poland</p>	
<p>Collaborative Filtering for Mobile Application Recommendation with Implicit Feedback <u>Beatriz Paula</u>^{1,6}, <u>João Coelho</u>^{1,6}, <u>Diogo Mano</u>^{1,7}, <u>Carlos Coutinho</u>^{1,2,3}, <u>João Oliveira</u>^{2,3,4}, <u>Ricardo Ribeiro</u>^{3,5}, Fernando Batista^{3,5} 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</p>	<p>Evaluating the understanding of Personal Data Privacy in Brazilian financial institutions from the perspective of consultants <u>Marcelo T Okano</u>¹, Iamara Ferreira², Edson Luiz Ursini³, Henry de Castro Lobo dos Santos³ 1: UNIP, CEETEPS and FT UNICAMP, Brazil; 2: CEETEPS; 3: FT UNICAMP</p>	<p>Assisted Reality as an enabler for resilient remote learning during COVID-19 <u>Thomas Kogias</u>¹, Adrian Butnaru², Frank Waszink³, Jan Smallegange², Nikolaos Gavalakis¹, Elias Xidias¹, Dimitris Zissis¹ 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</p>	
<p>Digital platform user-centered impact: A Conceptual Evaluation Framework <u>fatima ezzahra hamdani</u>, marie gribouval, barbara moissa, davy monticolo, vincent boly erpi, France</p>	<p>Improving maintenance management of reservoir structures using smart systems Lebogang Makama, <u>Arnesh Telukdarie</u> University of Johannesburg, South Africa</p>		

				Virtual laboratory, a learning resource for distance education <u>Daniel Galvez</u> , Lorena Delgado, Christopher Caceres, Lucas Villarroel University of Santiago, Chili, Chile
4:00pm - 4:30pm	Coffee Break Location: Foyer 850 (Hall) - Centre Prouvé			
4:00pm - 6:00pm	Serious Game: "L'année de l'innovation" Location: Foyer 850 (Hall) - Centre Prouvé Chair: Alice de Casanove , Université Lorraine, United States of America animated by: Johan Claire, CEO Innovation Way & ISO; Alice de Casanove, Airbus & ISO Max 36 people (add to your agenda)			
4:30pm - 6:00pm	RT-03: Meet the Editors Location: Auditorium 300 - Centre Prouvé Chair: Breno Nunes , University of Aston, United Kingdom Chair: Manon Enjolras , Université de Lorraine - ERPI, France Meet 6 editors for 6 journals! Remote Link: Auditorium	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 BOLDY , 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: Monticolo Davy , Université de Lorraine, Réunion (France) Remote link: Room 105 on Microsoft Teams
		Responsible Research and Responsible Innovation: Have new concepts emerged? <u>Akbar Mohammadi</u> ¹ , <u>Sahar Babaei</u> ² 1: Tehran University; 2: Allameh Tabatabaie University	Towards an analytical framework to analyze the evolution of manufacturing innovation systems <u>Michelle McClelland</u> ¹ , <u>Sara S Grobbelaar</u> ² , <u>Natasha Sacks</u> ¹ 1: Department of Industrial Engineering University of Stellenbosch AND DSI-NRF Centre of Excellence in Strong Materials (CoE-SM); 2: Department of Industrial Engineering Stellenbosch University AND DSI-NRF Centre of Excellence in Scientometrics and Science, Technology, and Innovation Policy (SciSTIP)	Telecommunications Customer Service Improvement Through Big Data Analytics <u>Thabile Shongwe</u> ¹ , <u>Masike Malatji</u> ² , Jan-Harm Christiaan Pretorius ¹ 1: Postgraduate School of Engineering Management, University of Johannesburg, South Africa; 2: Graduate School of Business Leadership, University of South Africa, South Africa
		Analysis of innovation phases in the different AM future scenarios <u>Marianne Hörlesberger</u> ¹ , <u>Brigitte Kriszt</u> ² , <u>Andrea Kasztler</u> ¹ 1: AIT Austrian Institute of Technology, Austria; 2: Montanuniversität Leoben, Austria	An empirical study on the effects of leader behaviour and resilience on innovative work behaviour <u>Kimaya Reddy</u> , Kai-Ying Chan University of Pretoria, South Africa	The Impact of Interactive technology by using Artificial Intelligence on the Formation of Social Interactions: A Study in Tourism Industry 4.0 <u>Seyede Rojin Sobhani</u> ¹ , <u>Negar Armaghan</u> ² , <u>Saeed Haghir</u> ¹ , <u>Ali Andaji Garmaroodi</u> ¹ 1: School of Architecture, College of Fine Arts, University of Tehran, Iran; 2: Department of Technology Development Studies, Iranian Research Organization for Science
		RRI and Digital Transformation in Grand Est Region <u>Marianne Hörlesberger</u> ¹ , <u>Vincent Boly</u> ² , <u>Jean-Jacques Bernardini</u> ³ , <u>Lucia Gonzalez</u> ⁴ 1: AIT Austrian Institute of Technology, Austria; 2: Université de Lorraine; 3: Grand E-nov+; 4: MATERIALIA	A Teams Approach to Idea Generation: An Analysis of Personality	

		<p>AI governance and ethics in public procurement: Bridging the gap between theory and practice</p> <p><u>Timo Tapani von Behr</u>, Mikko Siponen, Pekka Abrahamsson University of Jyväskylä, Finland</p>	<p>and Team Learning on Creativity</p> <p><u>Kai-Ying Chan</u>, <u>Precious Mokgala</u> University of Pretoria, South Africa</p>	<p>and Technology (IROST), Tehran, Iran</p>
		<p>Exploring extended outcomes of co-creation applied for Responsible Research and Innovation</p> <p><u>Felicitas Schmittinger</u>, Francesca Rizzo, Alessandro Deserti Politecnico di Milano, Italy</p>	<p>Research and scientific production in COVID - 19 in Argentina: analysis of bibliometric data</p> <p><u>Miguel Guagliano</u>, <u>Adriana Sanchez Rico</u> Ministry of Science, Technology and innovation - Argentina, Argentine Republic</p>	<p>Supporting circular economy in healthcare through digital reverse logistics</p> <p><u>Getnet Bogale Fanta</u>, Leon Pretorius Department of Engineering and Technology Management, University of Pretoria, South Africa</p>
			<p>Grass-root Innovation Ecosystem - an Indian case</p> <p><u>Bhukya Koteswararao Naik</u>¹, Ajit Kumar^{1,2}, Karuna Jain³, Anil Kumar⁴, Gautam Prakash⁵</p> <p>1: National Institute of Industrial Engineering (NITIE) Mumbai; 2: JBS, IIIT NOIDA, India; 3: Shailesh J Mehta School of Management (SJSOM), IIT Bombay; 4: Tata Institute of Social Sciences (TISS) Mumbai; 5: Tata Consultancy Services NOIDA NOIDA, India</p>	<p>Big data Citizen-centred smart city governance. Evidence from Wuhan and the Coronavirus battle</p> <p><u>DIDIER GRIMALDI</u> Ramon LLull University, Spain</p>
				<p>The Role of Management of Technology (MOT) in Unlocking Nations' Competitiveness in Post Pandemic and Global Crises</p> <p><u>Mohamed Azzam</u>, Tarek Khalil Nile University, Egypt</p>
<p>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 Teams</p>	<p>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</p>	<p>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</p>		
<p>Systematic Literature Review on Corporate Accelerator: Benefits, Challenges and Critical Success Factors</p> <p><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</p>	<p>Support from Governance, Leadership and Smart People in the context of Smart Cities Development</p> <p>Marcia Sierdovski, Luiz Alberto Pilatti, Priscila Rubbo, Rosmeiri Apr^a Ribeiro Ferras, Juliana Vitória M. Bittencourt, <u>Regina N. Pagani</u> Federal Technological University of Paraná, Brazil</p>	<p>Designing the curriculum of the packaging design course based on the active learning</p> <p><u>Narucha Tanaiutchawoot</u> Suranaree University, Thailand</p>		
<p>Enabling Entrepreneurs to build on their means: The Effectual Decision-Making Canvas</p>		<p>Determinants of e-Learning user satisfaction at a South African University of Technology</p> <p><u>Nhlanhla W. B. Mlitwa</u>, Oluwamayowa O. Ogundaini</p>		

	<p>Marcos Antonio González^{1,2}, Orestis Terzidis¹, Benedict Heblch¹ 1: Karlsruhe Institute of Technology, Germany; 2: Universidad Austral de Chile</p>	<p>Contribution of an IoT based cloud platform in the realization of data-driven in-house logistics</p> <p>Masoud Zafarzadeh¹, Wajid Ali Khilji¹, Jannicke Baalsrud Hauge^{1,2} 1: KTH Royal Institute of Technology, Sweden; 2: BIBA, Germany</p>	<p>University of South Africa Gradaute School of Business Leadership, South Africa</p>
	<p>Migrant Work Inclusion: Designing Research on Entrepreneurship Support</p> <p>Yngve Dahle¹, Kevin Reuther², Dimitris Polychronopoulos¹, Anh Nguyen Duc¹, Lars Ueland Kobro¹ 1: University of South-Eastern Norway; 2: Leipzig University, Germany</p>	<p>Forward kinematic based approach using sensor fusion for tracking the human limb</p> <p>Arthur Johnson¹, Aswin K Ramasubramanian², Robins Mathew², Brian Mulkeen¹, Nikolaos Papakostas² 1: School of Electrical and Electronic Engineering, University College Dublin, Ireland; 2: School of Mechanical and Materials Engineering, University College Dublin, Ireland</p>	<p>Components of digital assistants in higher education environments</p> <p>Sophie Henne, Vanessa Mehlin, Elena Schmid, Sigurd Schacht University of Applied Science Ansbach, Germany</p>
	<p>Self-Assessment Model based on the ISO 56002:2019 Standard for Evaluating Innovation Management Systems of Science and Technology Institutions</p> <p>MICHELLE SANTOS, MARIA F ALMEIDA Pontifical Catholic University of Rio de Janeiro, Brazil</p>	<p>Preliminary approach to the functionality of a technical remote sensing platform applied to agriculture in the Colombian case</p> <p>Sandra Cecilia Bautista-Rodríguez, Francy Pascagaza, Freddy Díaz, Victoria Vallejo Universidad Central, Colombia</p>	<p>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</p> <p>Eric Mikobi Bakama, Charles Mukwakungu Sambil, Nita Sukdeo University of Johannesburg, South Africa</p>
6:30pm - 8:00pm	<p>IAMOT Board Meeting 02 Location: Lorraine Fab Living Lab Lorraine Fab Living Lab - 49 Boulevard d'Austrasie - 54000 NANCY How to access (google map)? or from Congress center</p>		

Date: Wednesday, 22/June/2022

8:00am -	Regist. D3: Registration 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)			
9:00am -	RT-02: EU projects Round Table 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 -	WS01: Co-designing Open innovation, technologies & communities to enable socio-economical transition - Practices 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			
11:00am -	Climate Labs (closed event) Location: Room 103 - Centre Prouvé			
12:30pm	Climate Labs (closed event) Location: Room 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 Digital Fit(ness) – is 'being in a fit with' enough? Erich Heumüller, Julia Kossowski, 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} 1: ICN Business School; 2: University of Strasbourg; 3: BETA Research Center	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 / Värmland / Grand Est Remote link: Room 106 on Microsoft Teams
			The e.DO Cube Hackathon – Transitioning to Graduate School Brendan Sullivan¹, Monica Rossi¹, Lucia Ramundo², Paolo Rosa¹, Sergio Terzi¹ 1: Politecnico di Milano, Italy; 2: EIT Manufacturing	
12:30pm -	Lunch Location: Foyer 300 (small Hall) - Centre Prouvé			
1:30pm				

1:30pm -	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
2:00pm	
1:30pm -	Climate Labs (closed event) Location: Room 103 - Centre Prouvé
3:30pm	Climate Labs (closed event) Location: Room 104 - Centre Prouvé
1:30pm -	WS02: HyValue Workshop Location: Auditorium 300 - Centre Prouvé Chair: Robert Bierwolf , IEEE TEMS, Netherlands, The Chair: Monticolo Davy , Université de Lorraine, Réunion (France)
4:15pm	<ul style="list-style-type: none"> 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 <p>14:40 coffee Break</p> <ul style="list-style-type: none"> 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 <p>Remote Link: Auditorium</p>
	<p>Agilization of technical development processes for medical devices <u>Anna Schidek</u>, Holger Timinger University of Applied Sciences Landshut (Institute for Data and Process Science), Germany</p>
	<p>Concept of a Fuzzy Expert System for Story Point Estimations in Agile Projects <u>Philipp Hansen</u>^{1,2}, Holger Timinger^{1,2} 1: Landshut University of Applied Sciences, Germany; 2: Institute for Data and Process Science</p>
	<p>Supporting the Development of a Mobile Context-Aware Application by an MDA-based Approach Julian Dörndorfer, <u>Markus Schmidtner</u> University of Applied Sciences, Germany</p>
	<p>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</p>
	<p>From Cooperation to Collaboration: Sociological Insights into Digital Collaboration Platforms in the Automotive Value Chain <u>Alexander Ziegler</u>, Eckhard Heidling Institute for Social Science Research Munich, Germany</p>
2:00pm -	Exhibition (EU projects): Innovative Design Factory in the city by INEDIT, DIY4U, iPRODUCE, OPEN_NEXT Location: Petite Halle - Octroi Nancy 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
6:00pm	<p>Demonstrator in Living lab mode at Octroi Nancy (Cultural and creative third place) + networking (open to all & citizens & local industries / SMEs)</p> <ul style="list-style-type: none"> •Do It Together process: from Co-creation to open manufacturing •Open_Next pilots & booth

	<ul style="list-style-type: none">•iProduce software & booth•DIY4U booth	
	Commute to Octroi Nancy	
3:30pm -	Climate labs: Coffee Break Location: Foyer 300 (small Hall) - Centre Prouvé	
4:30pm		
4:00pm -	Climate Labs (closed event) Location: Room 103 - Centre Prouvé	Climate Labs (closed event) Location: Room 104 - Centre Prouvé
6:00pm		
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 , 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
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, présidente de l'Université de Lorraine.

Presentations

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

¹HTWG 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

Ambre Scarmoncin¹, 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

Fanny Pruvot, Laurent Dupont, Laure Morel

Laboratoire ERPI, France

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

Lilian Schreiner Módolo¹, 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

Tsireledzo Maliehe, Schalk Grobbelaar

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

The influence of circular economy implementation on competitiveness in manufacturing companies

Ulla Anneli Saari¹, 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

Bruno Alcantara Rodrigues, 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

John-Dean Kasher, 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

Ahmed Mohamed Abdelrahman Fayed, Mohamed Omar Ezzat
Nile University, 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

Lelani Oosthuizen, 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, Megashnee Munsamy, 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

Damir Androsevic, Mauricio Camargo, Nouredine 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

Update 19/06/2022

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

Marike Spamer, 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

Chih-Hung Hsieh, 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, Fedoua KASMI¹, 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

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

Preeti Tiwari¹, B. KOTESWARA RAO Naik²

¹Jindal Global Business School; ²NITIE Mumbai

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

Mariela Martinez, 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, Paolo Rosa², 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

Deborah Karen Kuperstein-Blasco¹, 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, Ludwig Martin

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

Siro Dell'Ambrogio, Silvia Menato, Jennifer Nika, Luca Canetta, Marzio Sorlini

SUPSI

Sustainable Gardens for Smart Cities using Low-Power Communications

Bruno Mota, 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, Irina Barbero³

¹Cardiff University; ²Cardiff University; ³Cardiff University

Implementation of a digital twin framework in the modular housing industry

Anne Fischer¹, Jorge Rodriguez Llorens¹, Zhen Cai¹, Michael Wilke², Stephan Kessler¹, Johannes Fottner¹

¹Technical 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

Fernando Penaherrera V.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

Jan-Philipp Disselkamp¹, 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

Heidy Noelia Montero Teran¹, 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

What do we learn in a living lab ?

Valentine Labouheure, Raphaël Bary, Laure Morel

ERPI- Université de Lorraine, France

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, Emre Kilic

Technische Universität Dortmund, Germany

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

Alexandra Pehlken¹, Henriette Garmatter², Lisa Dawel¹, 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

Dumisani Manzini, Rudolph Oosthuizen, Hilda Chikwanda

University of Pretoria, South Africa

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

Ahmed Mohamed Maghawry¹, 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: Giovanni Arbelaiz-Garces, Université de Lorraine, France

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

Brice Corrigeux¹, 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, Chennai, 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

¹Ghana 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, Adam Kao-Wen Weng^{*}, 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

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

System Dynamics Modeling for Smart and Collaborative Last Mile Networks

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

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, Leon Pretorius², 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

Ghada Bouillass, Michael Saidani, José Lameh, Bernard Yannou

Université Paris Saclay CentraleSupélec, Laboratoire Genie Industriel

Sustainable Renovation through Modular semantic prefabrication

Yacine Rezgui¹, 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

Abdulrahman Fnais, Ali Ghoroghi, Yacine Rezgui, Thomas Beach, Ioan Petri

Cardiff University, United Kingdom

Aligning IFC and SRI domains for BIM supported SRI assessment

Calin Boje, 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

Surabhi Singh, 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, Vasu Choudhary²

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

IE3: Digital Social Networks

Time: Tuesday, 21/June/2022: 9:40am - 10:40am · *Location:* Room 105 - Centre Prouvé

Session Chair: Sophie Boutillier, University of Littoral Côte d'Opale, France

Transition to Remote Work: Peculiarities of Social Networks Use

Vida Davidavičienė, Sigitas Davidavičius, Aurelija Burinskienė

Vilnius Gediminas Technical University, Lithuania

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

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

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 cubukcu¹, özlem akarçay², tuba ulusoy¹

¹necmettin erbakan university; ²Kto karatay university

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, Olivier CHERY¹, 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 Pavari**², **Habib Noorbhai**¹

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, Alice Kabamba Lumbwe

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

Joe Amadi-Echendu, 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, Gouri Ashok Gargate

IIT Kharagpur, India

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

Kwete Mwana Nyandongo, Mmammule Grace Madumo

University of Johannesburg, 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

Irmak Mutlu, Erik den Hartigh, Caglar Ucler

Ozyegin University, Turkey

Coopetition: A Critical Review and Directions for Future Research

Abhilasha Meena, Sanjay Dhir, Sushil Sushil

Indian Institute of Technology Delhi, India

IE13-2: Technology Foresight and Forecasting

Time: Tuesday, 21/June/2022: 11:00am - 12:30pm · *Location:* Room 104 - Centre Prouvé

Session Chair: Roland Ortt, Delft University of Technology, Netherlands, The

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

Alessandro Sala, Arko Steinwender, Peter Schieder, Wilfried Sihh

Fraunhofer Austria Research GmbH, Austria

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 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, Fernando Lopes

Universidade Federal do Rio Grande do Sul, Brazil

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, SS Pillay
University of Johannesburg, South Africa

Speech Assistance: Use cases in Industry

Manfred Langen
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, Ana Correia Simões³, 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, Paulo Antônio Zawislak
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-Anyadiiegwu, 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

Maximilian Schöberl¹, 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, Arnesh Telukdarie
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 Fehrenbach¹, Abdul Rahman Abdel Razek², Christian van Husen¹
¹Hochschule Furtwangen University, Germany; ²FARO Technologies

From need to requirement: a methodological contribution

Vincent BOLY, 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: Imke De Kock, Stellenbosch University, South Africa

Development of a leanness assessment tool for hospitals

Bronwyn Joubert, Wouter Bam

Stellenbosch University, South Africa

Co-Design for Gender Equality in an AI-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

Laubscher van der Merwe^{1,2}, Imke de Kock¹, Wouter Bam¹

¹Stellenbosch University, South Africa; ²CSIR, South Africa

Investigating the integration of public and private pharmaceutical supply chains

Jessica Botes, 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

Jannik Reinhold¹, Christian Koldewey¹, Roman Dumitrescu²

¹University of Paderborn, Germany; ²Fraunhofer IEM, Paderborn, Germany

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

Chibuiké 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 Bajío region

Lorena del Carmen Álvarez-Castañón¹, Pilar Arroyo-López², Rocío Alfonsina Lizarraga-Morales¹, Gema González-Romero³

¹Universidad de Guanajuato; 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

Guilherme Freitas Camboim, Nathália Amarante Pufal, Denise Barbieux, Paulo Antonio Zawislak

NITEC/UFRGS, Brazil

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

Time: Tuesday, 21/June/2022: 2:30pm - 4:00pm · *Location:* Room 105 - Centre Prouvé

Session Chair: Giovanni Arbelaiez-Garces, Université de Lorraine, France

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, Juliana Serna¹, Giovanni Arbelaiez-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 Khargh¹, 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

Leandro Lepratte, 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

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, Alice Kabamba Lumbwe

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}

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³Iscte - Instituto Universitário de Lisboa; ⁴Instituto de Telecomunicações (IT); ⁵INESC-ID; ⁶Instituto Superior Técnico;

⁷Faculdade de Ciências da Universidade de Lisboa

Digital platform user-centered impact: A Conceptual Evaluation Framework

fatima ezzahra hamdani, marie gribouval, barbara moissa, davy monticolo, vincent boly

erpi, France

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, Megashnee Munsamy, 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, Iamara Ferreira², Edson Luiz Ursini³, Henry de Castro Lobo dos Santos³
¹UNIP, CEETEPS and FT UNICAMP, Brazil; ²CEETEPS; ³FT UNICAMP

Improving maintenance management of reservoir structures using smart systems

Lebogang Makama, Arnesh Telukdarie
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

Alex Gabriel, 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

Daniel Galvez, 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

Marianne Hörlesberger¹, Brigitte Kriszt², Andrea Kasztler¹

¹AIT Austrian Institute of Technology, Austria; ²Montanuniversität Leoben, Austria

RRI and Digital Transformation in Grand Est Region

Marianne Hörlesberger¹, Vincent Boly², Jean-Jacques Bernardini³, Lucia Gonzalez⁴

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

AI 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

Felicitas Schmittinger, 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, IIIT NOIDA, India; ³Shailesh J Mehta School of Management (SJSOM), IIT Bombay; ⁴Tata Institute of Social Sciences (TISS) Mumbai; ⁵Tata Consultancy Services NOIDA NOIDA, India

TEC5: Artificial Intelligence & Big Data

Time: Tuesday, 21/June/2022: 4:30pm - 6:00pm · *Location:* Room 105 - Centre Prouvé

Session Chair: Monticolo Davy, Université de Lorraine, Réunion (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

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

Big data Citizen-centred smart city governance. Evidence from Wuhan and the Coronavirus battle

DIDIER GRIMALDI

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

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

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

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

Marcos Antonio González^{1,2}, Orestis Terzidis¹, Benedict Hebllich¹

¹Karlsruhe Institute of Technology, Germany; ²Universidad Austral de Chile

Migrant Work Inclusion: Designing Research on Entrepreneurship Support

Yngve Dahle¹, Kevin Reuther², **Dimitris Polychronopoulos**¹, Anh Nguyen Duc¹, Lars Ueland Kobro¹

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

Self-Assessment Model based on the ISO 56002:2019 Standard for Evaluating Innovation 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

Sandra Cecilia Bautista-Rodríguez, Francy Pascagaza, Freddy Díaz, Victoria Vallejo

Universidad Central, Colombia

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, Elena Schmid, 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

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, Julia Kossowski, 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

Brendan Sullivan¹, Monica Rossi¹, Lucia Ramundo², Paolo Rosa¹, Sergio Terzi¹

¹Politecnico di Milano, Italy; ²EIT Manufacturing

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

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