

D.C.5.2 LOCAL FOCUS GROUP YEAR 2

D.C.5.2: 10th International Conference on Operations Research and Enterprise Systems	
(ICORES)	02.2021
Vorarlberg University of Applied Science (PP4)	







1. Name of the event, implementing date and place

International Conference on Operations Research and Enterprise Systems (ICORES)

4th - 6th Feb 2020

Virtual / Vienna (Austria; co-organized by the Technical University Vienna)

2. Number and types of participants/target groups

The purpose of the International Conference on Operations Research and Enterprise Systems (ICORES) is to bring together researchers, engineers, faculty, and practitioners interested in both theoretical advances and practical applications in the field of operations research.

The ICOCRES conference was organized in conjunction with the ICAART conference (International Conference on Agents and Artificial Intelligence, 13th edition). The purpose of the International Conference on Agents and Artificial Intelligence is to bring together researchers, engineers and practitioners interested in the theory and applications in the areas of Agents and Artificial Intelligence.

The participants of these conferences were able to digitally switch between the conferences and participate within the heterogenous tracks and sessions.

3. Topics tackled and links to deliverables, outputs

The ICORES conference tackled a broad variety of topics, such as Optimization in Routing Applications, Decision Analysis and Simulation, Dynamic Programming and Network Optimization, Optimization in Energy and Telecommunications, OR in National Defence, OR in Transportation, Logistics and Queuing Theory, Decision Support Systems, Optimization Theory, Project Management, Optimization Health Care and three Key Notes within the field of OR and Enterprise Systems.

FHV's participation, Florian Maurer, was accompanied by the chairing of the tailored session entitled Decision Analysis and Simulation. Mr. Maurer guided five presenters through this





session and were able to coordinate questions with and among presenters and session participants.

Furthermore, Mr. Maurer presented its scholarly article entitled "Business Intelligence and Innovation: an European Digital Innovation Hub to increase System Interaction and Value Cocreation within and among Service Systems". This article summarizes FHV's activities within work package 1 & 2 and concludes with TAP local implementation. Besides the elaboration of the scholarly paper (summer & autumn 2020), a poster and a video (Jan 2021) have been elaborated as presentation media. The poster and video will be available on the FHV's Digital Innovation Hub's homepage and the 4Steps project homepage.

Additionally, Florian Maurer served interested scholars, managers, decision makers, etc. with information about the project and the pilot "Business Intelligence & Innovation" at a digital 4Steps booth.

4. Expected effects and follow up

The participation within the ICORES conference will produce positive long-time effects for FHV's Hub Business Intelligence & Innovation. For example, the scholarly article is published in SciTePress.org and will provide guidance for scholars, managers, decision makers, entrepreneurs, etc. to get in contact with the FHV's Digital Innovation Hub.

The poster presentation is online on Youtube and motivates scholars, managers, decision makers, entrepreneurs, etc. to get in contact with the FHV's Digital Innovation Hub. The article and video disseminates FHV's activities and endeavours in design, development and implementation of a (European) Digital Innovation Hub.

All the efforts and activities foster the Hub's transparency within the academic community on Digital Innovation Hubs and the European and national community on Digital Innovation Hubs.

The scholarly paper, poster and poster presentation video is forwarded to the National Contact Point for further discussion with the Ministry to list FHV's Digital Innovation Hub as national hub. The scholarly paper, poster and poster presentation will be forwarded to DIH.net - the Network for European Digital Innovation Hubs.





5. Annexes: e.g. agenda of the event, pictures, media coverage web-links etc

5.1. Agenda:

Schedule as pdf attached.

5.2. Video prepared:

Florian Maurer's talk on "Business Intelligence and Innovation: an European Digital Innovation Hub to increase System Interaction and Value Co-creation within and among Service Systems".

https://www.youtube.com/watch?v=I87eieUUTfE

5.3. Award:

Florian Maurer received the ICORES best poster award.

http://www.icores.org/PreviousAwards.aspx

Certificate as pdf attached.

5.4. Paper:

Florian Maurer's scholarly paper is published within the ICORES Conference Proceedings

https://www.scitepress.org/ProceedingsDetails.aspx?ID=kqEm9Ma4xys=&t=1 5.5. Abstract:

The abstract of the Florian Maurer's paper is downloadable from the ICORES conference homepage (and the FHV's Digital Innovation Hub homepage and the 4Steps homepage)

http://www.icores.org/Abstracts.aspx

Due to limited resources (e.g. human, financial, knowledge, etc.), Small- and Medium sized Enterprises run the risk to miss the Digital Transformation of its systems. Especially the manufacturing industry - a strategic industry within the European Union that employs millions of workers and provide tremendous Gross Domestic Product to the partner countries - faces technology changes and increased challenges for implementation. As reaction to the challenges of the manufacturing industry, the European Union launched the Factory of the Future programme and the European Digital Innovation Hub programme. Within this article at hand, the literately and empirically endeavours towards the design and development of the



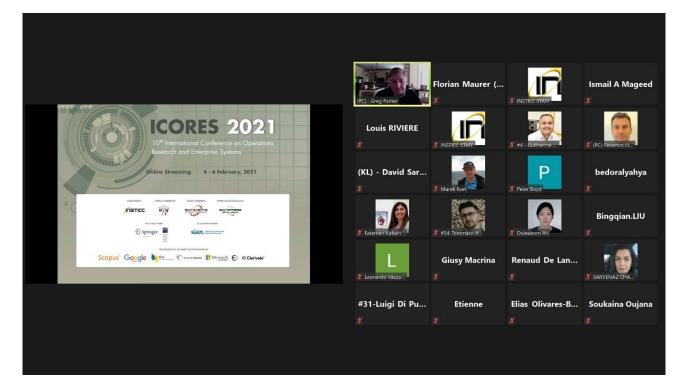


Digital Innovation Hub: Business Intelligence & Innovation within the region of Vorarlberg are presented. In doing so, a narrative literature review about the academic discipline of Service Science - the guiding theory to innovate service systems - and an empirical research about the motivation, status quo, vision and strategy towards the Digital Transformation and Industry 4.0 paradigm of the manufacturing industry within the region of the Federal State of Vorarlberg are presented.

5.6. Poster:

Poster as pdf attached.

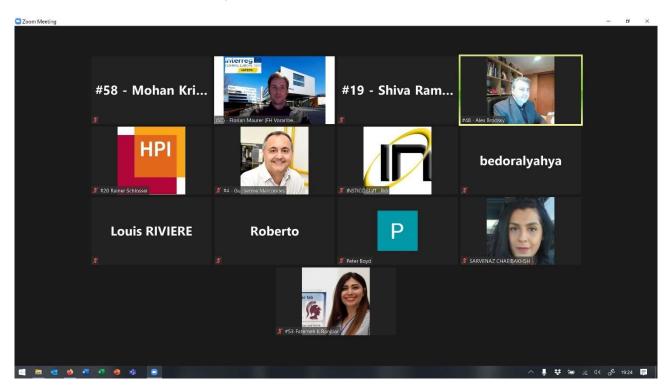
5.7. Conference Kick-Off

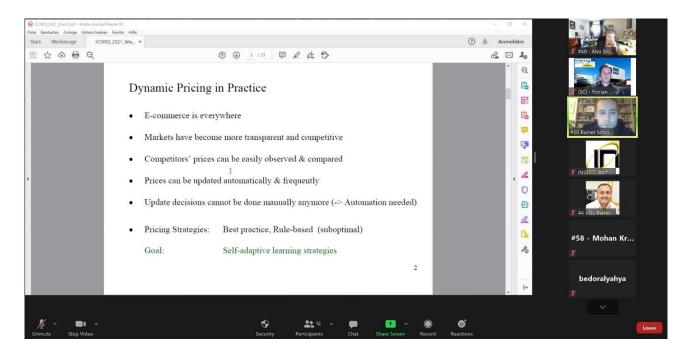






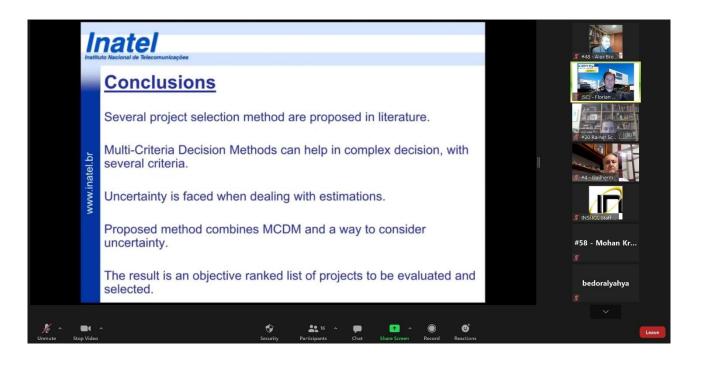
5.8. Session Decision Analysis & Simulation:











Problem

53%

We would like to design an approach to a data-driven phone-based marketing campaign to solve the problem of determining the optimal number of calls that should be assigned to each potential customer.

We present a novel formulation to this problem.

Similar research papers have been examined. The majority of them framed the problem as a binary classification problem.

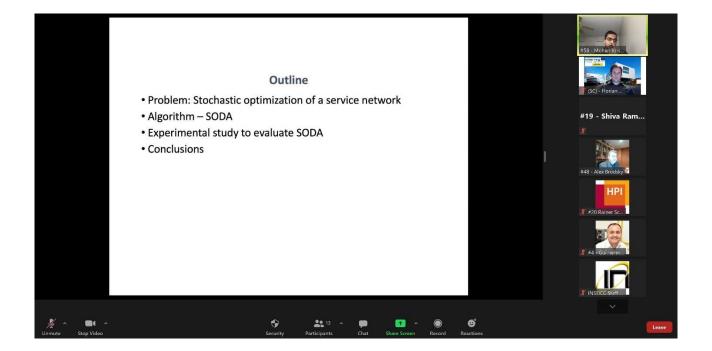
One paper utilised sliding windows to compute measures of customer lifetime value.

Another discussed the development of a dynamic programming formulation for allocating contacts to customer segments. They did not provide any method to derive the customer segments.







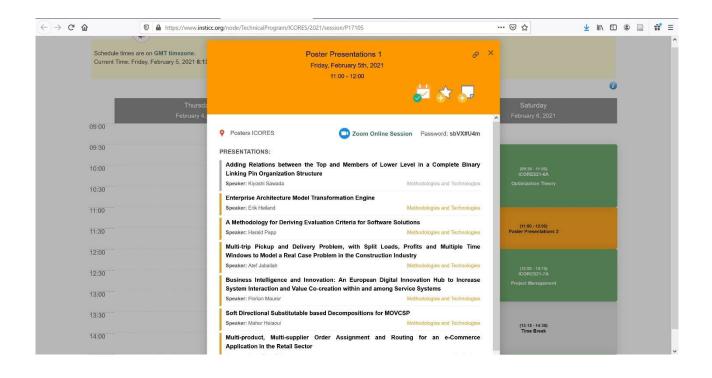


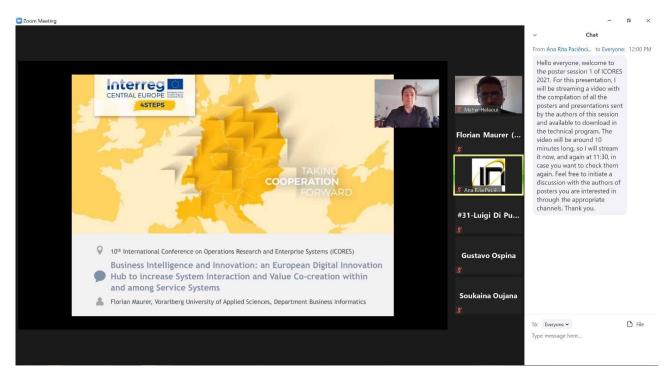


5.9. Poster presentation:



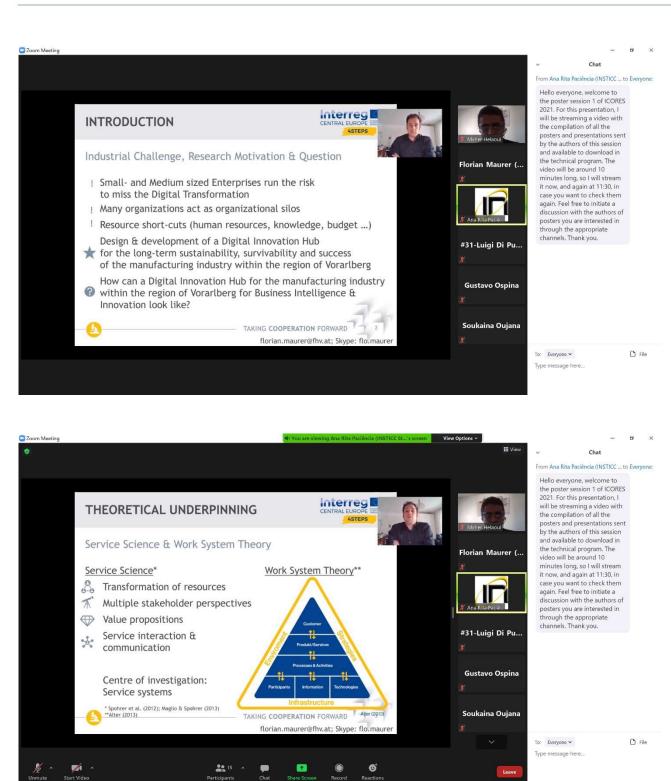






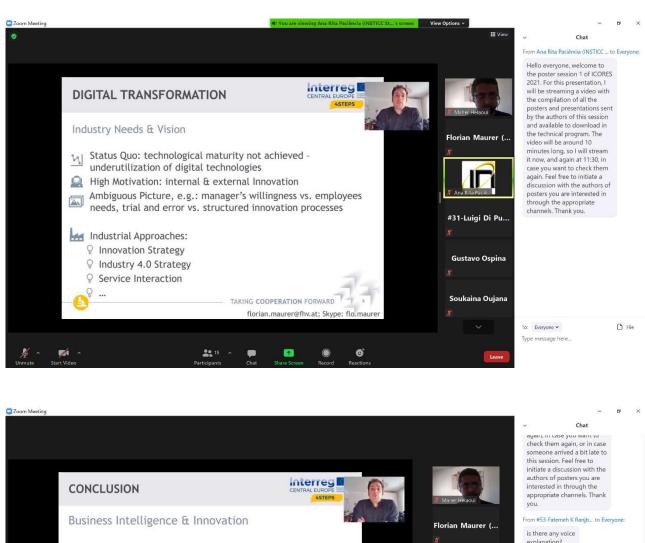












is there any voice explanation? From Ana Rita Paciência (INSTIC... to Everyone: 12 Continuous questioning of the internal and external For some of them there are, if -0.they have sent a video organizational environment explanation. For the ones that only sent the poster, we have only included the poster ٢ Think in value chains: systems & services #31-Luigi Di Pu... Gain competitive advantages out 2Y of system & service interaction From #53-Fatemeh K Ranjb... to Everyone: ok, thank you Gustavo Ospina From Ana Rita Paciência (INSTIC... to Every All the posters can be downloaded in the technical program, if you want to read them with more detail TAKING COOPERATION FOR Soukaina Oujana florian.maurer@fhv.at; Skype: flo.maure To: Everyone 🛩 🖰 File Type message here...





5.10. Poster presentation:

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			Business Intelligence and Innovation: An European Digital Innovation Hub to Increase System Interaction and Value Co-creation within and among Service Systems			
				S S S		
			Download: Paper Presentation	Paper Forum:		
			ABSTRACT Due to limited resources (e.g. human, financial, knowledge, etc.), Small- and Medium sized of its systems. Especially the manufacturing industry – a strategic industry within the Euro tremendous Gross Domestic Product to the partner countries – faces technology changes as the challenges of the manufacturing industry, the European Union launched the Factory of t Hub programme. Within this article at hand, the literately and empirically endeavours towe Hub: Business Intelligence & Innovation within the region of Vorariberg are presented. In or discipline of Service Science – the guiding theory to innovate service systems – and an emp strategy towards the Digital Transformation and Industry 4.0 paradigm of the manufact Vorariberg are presented.	pean Union that employs millions of workers and provide di increased challenges for implementation. As reaction to be Future programme and the European Digital Innovation drds the design and development of the Digital Innovation loing so, a narrative literature review about the academic irrical research about the molivation, status quo, vision and		
			KEYWORDS European Digital Innovation Hub, Business Intelligence & Innovation, Service Science, Servi	ce Systems.		
			TOPICS Project Management; Information Systems; Industrial Engineering; Systems of Systems/Teal	ns and Socio-Technical Systems; Engines for Innovation;		
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5.11. Virtual background used:







