Monday, 3 July 2023

Registration

Opening Ceremony (Room Sentient Hubs)

Keynote Talk: Deltares: Ghada El Serafi (Room Sentient Hubs)

Coffeebreak & Networking

Session

Room Sentient Hubs

Agent Based Simulation I CHAIR: Itala Flores

Paper # Title Authors
1T1D0 381 The Impact of Adding Interaction-Driven Evolutionary Behavior to the Schelling’s Model Yuki Turgut and Sanja Lazareva-Molnar
1T1D2 401 A Methodology for Limit-Cycle Detection in Simulation Models Francesco Berbati and Luca Mari
1T1D3 450 Agent-Based Models for exploring behaviour change policies for improving waste water collection at SMEs Kaspar Lange, Sabine Kerssens, Olga Kerssens and Marithy Wamers
1T2D0 3320 Impact on power and CO2 emissions on getting sustainability: comparative analysis between automated and traditional systems Felice Niero, Gianluca Guzman and Solah Amin

Room Wolfram

Simulation and Healthcare I CHAIR: Maria Papakonou

Paper # Title Authors
1T1D0 381 Disease-Based Model Identification of the Hypertension-Pulmonary Hypertension Complex Moritz Arndt, Andreas Körner and Corinna Mielke
1T1D1 1734 Online Appointment Scheduling of Patients in a Resource Constrained Facility Simon L_RANDOMA Li, Ashishah Mahjoub, Ashraf Baydoun and Suyit Hulten
1T1D2 3952 Analytics of the Notification Process for Medical Device Safety: Using Causation Theory and Simulation Jindra Limtrakul, Saeed Davood, and Ali M. Abouzeid
1T1D3 7377 Contributions of Process Mining and Simulation in the Process Management Lifecycle using the Example of Healthcare Case Studies Marianna Schrems

Room IGAMT

Multimodal Transport CHAIR: Ashish Verma

Paper # Title Authors
1T1D0 1842 A Hybrid Simulation Based Approach for Urban-Based Roadside Infrastructure in Bike-Sharing System Reza Mahdawi, Thomas Ashkil Verma, Sai Kiran Mayakandi and Akshay Chandra
1T1D2 2241 Evaluating logical concepts with simulation: A case study of increasing freight train length at ports Pawel Kobierski, Cornelia Venneti and Michele Fumarola
1T1D3 4958 Mobility games in air-traffic/mobility Lui Sengfalin, Vitalina Bob, Andrei Korobko, Ethan Zanetti, Ernesto Gregori and Annika Pich
1T2D0 7747 Design of robust business processes using multimodal approach Kateryna Sanytscheva and Irena Zarytkina

Lunch break (Canteen Wilbauths)

Keynote talk: Pr. Gabriel Wainer (Room Sentient Hubs)

Session

Room Sentient Hubs

Simulation & Supply Chain: Margarita Bagamanova

Paper # Title Authors
1T1D0 1742 A multipurpose simulation-based approach for resilient and sustainable supply chains in the process industry Ana Silva, Carolina Monquen and Jorge Sousa
1T1D2 6870 Error-Model Predictive Control of Wheeled Mobile Robots for Minimum-Delay Delivery Using Agent Based Modelling and Simulation Gomes and Jorge Sousa
1T1D3 7625 Simulation-Optimization of Job Shop Scheduling using Reinforcement Learning by Agent-based Simulation Gomes and Jorge Sousa

Room Wolfram

Simulation in Education CHAIR: Cristina Ruiz Martin

Paper # Title Authors
1T1D0 1984 MECSimRisk: an educational tool for quantitative risk analysis Fernando Kobsb et al.
1T1D2 1889 Technology-supported Teaching of Modelling and Simulation in Inverted Classroom Format Alexander Edthofer et al.
1T1D3 8176 Simulation model to the online course advising Alejandro Felipe Zárate Pérez and Idalia Flores de la Mota

Room IGAMT

Simulation Optimization CHAIR: Mario Ruiz

Paper # Title Authors
1T1D0 2706 A method for efficient simulation of production lines through software-supported cooperation between production and simulation experts Kateri Wischinger and Manuel Hazle
1T1D2 6843 A new Simulistics procedure for stochastic combinatorial optimization Jocel Berthout
1T1D3 7363 Simulation applied to a consulting team assignment problem Gabriel A. Ross-Esparr and Esther Segura-Planes
1T1D4 7357 Estimating Wind and Emission Parameters in an atmospheric transport model Andrea Yacine Bekker, Olga Lucia Quintano Monjea and Arnold Hawes

Coffeebreak & Networking

Session

Room Sentient Hubs

Agent Based Simulation II CHAIR: Sahil Besare

Paper # Title Authors
1T2D0 4950 Past simulation for public passenger transport energy consumption Carmen Algegina Garcia Ceranall et al.
1T2D2 5890 Learning Exploratory Coherence Models from Agent-Based Simulation Experiments Lewat Yilmaz
1T2D3 5680 Simulating patient outcomes-based on regional-level healthcare quality: an agent-based modeling approach Min Hu, Yue Lio and Young Kyung Do
1T2D4 6878 On the Relationship between Model Complexity and Decision Support in Agent-Based Modeling and Simulation Ruhshan Jamali and Sanja Lazareva-Molnar

Room Wolfram

Simulation in Manufacturing and Agriculture CHAIR: Itala Flores

Paper # Title Authors
1T2D0 6997 Simulation analysis of flow patterns inside a clog barrier separator at increasing clogging levels Fernando Sotelo et al.
1T2D2 7625 Simulation Optimization of Job Shop Scheduling using Reinforcement Learning Sahil Bhalerao and Mohammad Dehghani
1T2D3 8058 An AI-Enabled Simulation: Applying Neural Network in a Flexible Flow Shop Problem Soob Hwang, Yah Nima and Mohammad Behzadinezhadrostad
1T2D4 8854 Model-driven Dynamics of the Biogas Process under Uncertainty: A Fuzzy Set Theory Approach Zahir Bahrami and Omarussam Samavacin

Room IGAMT

Industrial Case Studies CHAIR: Abdel El Makhloufi

Paper # Title Authors
1T2D0 2478 Reward Calculation in Real-time Scheduling Based on Simulation and Q-Learning Shubhraj Shaha, Tan Zhang and Oliver Rose
1T2D2 3140 Simulation: a tool to improve the medical equipment production line Paulo Miguel Yaya, Paul Edwards, Herence Jacobo and Ricardo Torres Mendes
1T2D3 4488 Optimizing Electric Arc Furnace Operations through an Interactive User Interface on Siemens MindSphere: A Decision Support System Simon Tomash and Voltey Logan

Tuesday, 4 July 2023

Registration

Keynote Talk: Sanja Lazareva-Molnar (Room Sentient Hubs)

Coffeebreak & Networking

Session

Room Sentient Hubs

Agent Based Simulation and Control CHAIR: Marit Stolte

Paper # Title Authors
1T3D0 4026 Evaluation of Government Incentive Policy on Industrial Waste Utilization by Agent-based Simulation of Industrial Symbiosis Network Shouying Xu, Tian Zhong, Zhibin Ullig and Oliver Rose
1T3D2 8389 Exploring the Use of Urban Consolidation Centers for Efficient Last-Mile Delivery Using Agent-Based Modelling and Simulation Atul Bhattay, Anu Ahluwalia, Ashutosh Barve and Jaisingh Faudoa
1T3D3 3595 Exo-Model Predictive Control of Wheeled Mobile Routers for Minimum-Time Tracking Performance Martina Benko Loknar, Andrej Zdešar, Saso Serrano and Javier Faulin
1T3D4 5854 Optimal Active Generator Torque Control Strategies for Tapered Tower Load Reduction in the IEA 15 MW Wind Turbine Manuel Lara, Mario L. Ruz, Iñaki Sandua, Blažič and Igor Škrjanc

Room Wolfram

Simulation and Healthcare II CHAIR: Maria Papakonou

Paper # Title Authors
1T3D0 3977 Towards a hospital-wide simulation framework Monika Rieder-Oppermann, Michael D’Souza, Cameron Walker and Eliza Zelden
1T3D2 5453 Analysis of Covid-19 Transmission Using Complex Networks Sashiko Shirai, Oroselfia Sanchez, Carmen A. García Ceranall and Idalia Flores de la Mota
1T3D3 7093 Permutation Entropy as a Conceptual Model to Analyze Brain Activity in Sleep Alexander Edthofer et al.
1T3D4 3305 Identifying Flight Schedule Characteristics Increasing Pilots AWAREness at an Airport Using a Data-Mining and Simulation Approach Thomas Nebelung and Alejandro Murrieta

Room IGAMT

Industrial Case Studies CHAIR: Esko Juuso

Paper # Title Authors
1T3D0 9847 The use of simulation throughout the lifecycle of advanced software platforms – a case study Yco Beiber, Zwei Lu and Gijsbert Bast
1T3D2 9738 Architecture based on Cloud Services to boost cultural and heritage tourism in the department of Cesar, Colombia Paola Patricia Alzate Ceballos et al.
1T3D3 1802 Application Of Digital Twin Simulation In Deploying AGV/AR System To Hi-Tech Industry Hankirkhan K, David Guzdi and Niina Kaartinen
1T3D4 8742 Validation of Data-Driven Reliability Models in Manufacturing – Work in Progress Jonas Friedrich and Sanja Lazareva-Molnar
### EUROSIM Congress 2023

#### Wednesday, 5 July 2023

### Coffeebreak & Networking

#### Session

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<td>10h30</td>
<td>Coffeebreak &amp; Networking</td>
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### Room Sentient Hubs

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<td>Monitoring and Control I CHAIR: Igor Škrjanc</td>
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<td>10h00</td>
<td>Ground Operations in Total Airport Management</td>
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<td>11h30</td>
<td>Aviation I: Alejandro Murrieta</td>
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<td>Lunch break (Canteen Wibauhuis)</td>
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### Lunch break (Canteen Wibauhuis)

#### Panel Session: "The importance of Simulation for a Sustainable Future" - Miquel Piera, Sanja Lazarrova-Molnar, Jan Brugards, Ashish Verma, David Lucidu (Room Sentient Hubs)

### Room IGAMT

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<td>Environment and Sustainable Applications I CHAIR: Luis Fernandez</td>
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<td>Combined Integration of Simulation and Machine Learning in a Design Engineering Framework</td>
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<td>Sustainability of Hybrid Systems by Fuzzy C-regression Clustering</td>
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### Closing Ceremony

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