## **SCHEDULE ECMS 2022**

	36.123612	20.00 2022	
	Author names written in orange: vid	leo/online presentation	
Time (CET)	TUESDAY May 31st - All Schedule in CET		
15:00-17:00	Registration and Reception		
Time (CET)	DAY 1 WEDNESDAY (June	1st) - All Schedule in CET	
08:00-14:00	Registration	Office Open	
08:30-09:00	Welcome & O <sub>I</sub>	pening Session	
9:00-10:00	Keynote 1: On the role of Modeling and Simulation	on for Artificial Intelligence, <i>Prof. Hussein Abbass</i>	
10:00-10:30	Coffee Break		
	Session 1.1: SIMO 1 (Room: Marco Polo)	Session 2: BPMI (Room: Møretanken)	
	Session chair: Frank Schaetter and Florian Haas	Session chair: Romeo Bandinelli	
10:30-10:55	A Simple Algorithm Selector For Continuous Optimisation Problems	Optimization Of Internal Logistics Using A Combined BPMN And Simulation Approach	
	Tarek A. El-Mihoub, Christoph Tholen, Lars Nolle	Maximilian Wuennenberg, Benjamin Wegerich, Johannes Fottner	
.0:55-11:20	Optimised Bumblebee Paths As Search Strategy For Autonomous Underwater Vehic	l∈ Simulating The Automation Of Sorting Crates – A Stepwise Approach	
	Christoph Tholen, Lars Nolle, Tarek A. El-Mihoub, Oliver Zielinski	Armand Misund, Henrique M. Gaspar	
1:20-11:45	Emission Reduction Through Production Scheduling By Priority Rules And Energy Onsite Generation	A Data-Driven Approach For Process Simulation Optimization: A Case Study	
	Hajo Terbrack, Thorsten Claus, Frank Herrmann	Romeo Bandinelli, Andrea Nunziatini, Virginia Fani, Bianca Bindi	
1:45-12:10	Supply Chain Resilience Management Using Process Mining	Towards A Meta-Modeling Approach For An IoRT-Aware Business Process	
	Frank Schaetter, Frank Morelli, Florian Haas	Najla Fattouch, Imen Ben Lahmar, Khouloud Boukad	
12:10-13:10	Lunch break		
	Session 1.2: SIMO 2 (Room: Marco Polo)	Session 3: CPS / FES 1 paper (Room: Møretanken)	
	Session chair: Carlo Simon	Session chair: Saleh A.A Alaliyat / FES track paper Kata Varadi	
3:10-13:35	Stratification Of Timed Petri Nets At The Example Of A Production Process	Modelling AGV Operation Simulation With Lithium Batteries In Manufacturing	
	Carlo Simon, Stefan Haag, Lara Zakfeld	Ozan Yesilyurt, Marius Kurrle, Andreas Schlereth, Miriam Jaeger, Alexander Sauer	
3:35-14:00	Microbial Growth Of Lactobacillus Delbrueckii Ssp. Bulgaricus B1 In A Complex Nutri	e On The Use Of Graphical Digital Twins For Urban Planning Of Mobility Projects:	
	Medium (MRS-Broth) Georgi Kostov, Rositsa Denkova-Kostova, Vesela Shopska, Bogdan Goranov, Zapryana	A Case Study From A New District In Ålesund, Norway L Pierre Major, Andreas Amundsen, Ricardo Da Silva Torres, Pernille Stadsnes, Egil Mikal.	
4:00-14:25	A Model For Predicting The Amount Of Photosynthetically Available Radiation From BGC-ARGO Float Observations In The Water Column	Digital Twins For Lighting Analysis: Literature Review, Challenges, And Research Opportunities	
	Frederic Stahl, Lars Nolle, Ahlem Jemai, Oliver Zielinski	Muhammad Umair Hassan, et al.	
4:25-14:50	Calibration Model For Perceptual Compensation Of Defective Pixels Of Self-Emitting	[ Forecasting Models For First Year Premium Of Life Insurance - FES Track paper talk	
	Olga A. Basova, Anton Grigoryev, Dmitry P. Nikolaev	Somsri Banditvilai	
.4:50-15:30	Coffee Break		
L5:30-20:00	Students will walk us to Sunnmøre Museum -with boat excursion or guided museums tour (food and drinks provided)		

ECMS Board Meeting, Room: Roald Amundsen 5th floor

14:00-15:30

08:00-14:00 09:00-10:00 10:00-10:30	Keynote 2: Building An Open-Source Community For Subsurface Flow Simulation, Prof. Knut-Andreas Lie		
	Session 1.3: SIMO 3 (Room: Marco Polo)	Session 4: PSTAT (Room: Møretanken)	
	Session chair: Hajo Terbrack	Session chair: Armando Tacchella	
10:30-10:55	Improve The Output Quality Of Adaptive Process Chains With AI And Optimiziation	Effect Of Impurities On Stability Of The Skyrmion Phase	
	Thomas Husslein, Christian Otto	In A Frustrated Heisenberg Antiferromagnet	
		Mariia Mohylna, Milan Zukovic	
10:55-11:20	How To Run A World Record? A Reinforcement Learning Approach	Massive Degeneracy And Anomalous Thermodynamics I	
	Sajad Shahsavari, Eero Immonen , Masoomeh Karami, Hashem Haghbayan, Juha Plosila	In A Highly Frustrated Ising Mode On Honeycomb Lattice Milan Zukovic	
11:20-11:45	Synergy Between Shuttles And Stacker Cranes In Dynamic Hybrid Pallet Warehouses: Some Ergodicity And Truncation Bounds		
	Control Strategies And Performance Evaluation	For A Small Scale Markovian Supercomputer Model	
	Giulia Siciliano, Yue Yu, Johannes Fottner	Rostislav Razumchik, Alexander Rumyantsev	
11:45-12:10	Elongated Boundaries Detector Parameters Optimisation		
	Based On Generation Of Synthetic Data From Aerial Imagery		
	Ekaterina Panfilova, Anton Grigoryev, Vladimir Burmistrov		
12:10-13:10	Lunch break		
	Session 5.1: DIS 1 (Room: Marco Polo)	Session 6.1: FES 1 (Room: Møretanken)	
	Session chair: Agnieszka Jakobik	Session chair: Kata Varadi	
		one talk already given Wednesday 14:25 - 14:50	
13:10-13:35	Causal Analysis Graph Modeling For Strategic Decisions	Reflections On Assumptions For A Simulation Model Of Dental Caries	
	Alexander H. Levis, Amy Sliva	Prevention Planning In A Primary School  Maria Hajlasz, Bozena Mielczarek	
13:35-14:00	Epistemic Games With Conditional Believes For Modelling Security d	Comparison Of Separated Families' Standard Of Living In Germany:	
	Threats Defence In Clou Computing Systems Lukasz Gaza, Agnieszka Jakobik	Analyzing The Equalised Incomes In Simulated Families After Child Support And Child Benefit Paid Erzsebet Terez Varga	
14:00-14:25	Simulating The Programmable Networks For HLA Compatible High-Performance Sim	u European Quality Of Life In Retirement - Analyzing Personal Differences	
	Kayhan M. Imre	Based On SHARE Data	
		Sara Szanyi-Nagy, Erzsebet Kovacs, Agnes Vaskoevi	
	Agent And Evolutionary-Based Modelling And Simulation	Rising Regional Importance Of	
14:25-14:50	, igent , in a 2 volutionary suscent in a community of the control		
14:25-14:50	Of A Simplified Living System	The Renminbi In The Asia-Pacific Area: A Panel Analysis	
14:25-14:50		The Renminbi In The Asia-Pacific Area: A Panel Analysis Eszter Boros, Gabor Sztano	

	Session 7: FDEM (Room: Marco Polo)	Session 6.2: FES2 (Room: Møretanken)	
	Session chair: Peter T. Zwierczyk	Session chair: Kata Varadi	
L5:10-15:35	FEM Study On The Strength Increasing Effect Of Nitrided Spur Gears	Implied Volatility Based Margin Calculation On Cryptocurrency Markets	
	Jakab Molnar, Peter T. Zwierczyk, Attila Csoban	Balazs Kralik, Nora Felfoeldi-Szuecs, Kata Varadi	
5:35-16:00	Development Of A 2D Discrete Element Software With LabVIEW t	Regional Models Of Corporate Sector Development In Russia:	
	For Contact Model Improvemen And Educational Purposes  Laszlo Pasthy, Joszef Graeff, Kornel Tamas	Where Does Family-Friendly Policy Matter Most? (A Study Based On Cluster Analysis)  Anna Bagirova, Oksana Shubat	
6:00-16:25	Application Of The Extended Finite Element Method In The Aim Of Examination Propagation In Railway Rails	n Of Cr Identifying Regional Models Of Active Grandparenting In Russia Based On Cluster Analysis	
	Daniel Bobis, Peter T. Zwierczyk, Tamas Mate	Oksana Shubat, Irina Shmarova	
6:25:16:50	Application Of The Finite Element Method To Determine The Velocity Profile In Daria Wotzka	n An Open Channel	
17:00	- F	5 pm private bus leaves NMK and brings us downtown	
18:15	•	asjon): same Bus brings us up to AKSLA Hill for the Dinner	
8:30-22:00	Conference Dinner at FJELLSTUA AKSLA 6007 Aalesund on top of the famous hill		
	in case you want to wal	lk up to Aksla - feel free to do so	
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