

ISM 2021 Program-at-a-glance*

Time zone: Central European Time (CET; UTC+01:00)
 All the sessions will be held in blended mode, in-person and online via MS Teams.
 Participation instructions are available at <http://www.msc-les.org/ism2021/program/>
 For the full conference program, visit <http://www.msc-les.org/ism2021/program/>
 For information about the B2B/B2S Matchmaking Event, visit <https://b2b-meetings-at-ism-2021.b2bmatch.io/>

Find your session and click on the corresponding buttons below to join online.

Plenary Sessions and Keynote Talks [Join online >](#)
 Regular Sessions and Paper Presentations [Join online >](#)
 Special Sessions [Join online >](#)
 B2B/B2S Meetings [Access >](#)

Interaction Virtual Rooms
 Use the links below to connect
 IVR - 1 [Click here to connect >](#)
 IVR - 2 [Click here to connect >](#)
 IVR - 3 [Click here to connect >](#)

3rd International Conference on Industry 4.0 and Smart Manufacturing
 ISM 2021
 University of Applied Sciences Upper Austria
 Hagenberg Campus, Linz Area, Austria
 17-19 November 2021



Wednesday, November 17, 2021 - Day 1						
Round up & Transfer Linz > Hagenberg for in-person participants						
Attendees' Welcome & Reception Conference Registration Desk @Foyer 2.0						
09:10 - 10:00	Room					
10:00 - 10:45	Audimax	Plenary Session Opening Ceremony & Greetings				
10:45 - 11:15 Coffee Break						
11:15 - 13:00	Room Audimax	Plenary Session Keynote 1: Smart development of IoT management systems for Industry 4.0 Juan Manuel Corchado Keynote 2: Digitalization as enabler for Circular Economy – Use Cases from the industry's point of view Sophie Pachner				
13:00 - 14:30 Lunch Break						
Parallel Sessions						
	Room	S1.1 - DT	S2.1 - MAN (I)	S3.1 - HUM	S4.1 - PRES	S5.1 - ADD
	Link	Join online >	Join online >	Join online >	Join online >	Join online >
14:30 - 16:15	Chairs	Shen W.	Silvestri C, Forcina A, Aquilani B.	Jeske T.	Kommenda, M.	Özel T.
14:30 - 14:50	ISM2021-025	ISM2021-007	ISM2021-016	ISM2021-068	ISM2021-036	
14:50 - 15:10	ISM2021-054	ISM2021-014	ISM2021-047	ISM2021-106	ISM2021-127	
15:10 - 15:30	ISM2021-057	ISM2021-072	ISM2021-063	ISM2021-111	ISM2021-152	
15:30 - 15:50	ISM2021-079	ISM2021-084	ISM2021-064	ISM2021-173	ISM2021-153	
15:50 - 16:10	ISM2021-168	ISM2021-150	ISM2021-166	ISM2021-193	ISM2021-163	
16:10 - 16:40 Coffee Break						
Parallel Sessions						
	Room	S1.2 - XR	S2.2 - MAN (II)	S3.2 - ROB	S4.2 - DATA	S5.2 - FELICE
	Link	Join online >	Join online >	Join online >	Join online >	Join online >
16:40 - 18:20	Chairs	Kardar, J.	Solima V.	Gualtieri, L. Rauch, E.	Godina R., Espadilha da Cruz P.	Longo F.
16:40 - 17:00	ISM2021-023	ISM2021-028	ISM2021-013	ISM2021-004		Special Session FELICE
17:00 - 17:20	ISM2021-100	ISM2021-090	ISM2021-040	ISM2021-092		
17:20 - 17:40	ISM2021-142	ISM2021-137	ISM2021-096	ISM2021-034		
17:40 - 18:00	ISM2021-155	ISM2021-162	ISM2021-126	ISM2021-035		
18:00 - 18:20	ISM2021-214	ISM2021-190	ISM2021-175	ISM2021-198		
Round up & Transfer Hagenberg > Linz for in-person participants						
Social Event @Ars Electronica Center, Linz						

Abbreviation	Topic
S1.1 - DT	Digital Twin-Driven Smart Applications
S2.1 - MAN (I)	Maintenance and Asset Management (I)
S3.1 - HUM	Human Factors and Ergonomics
S4.1 - PRES	Data Management and Prescriptive Analytics
S5.1 - ADD	Additive Manufacturing: Technical Advances, Impacts and Challenges
S1.2 - XR	Extended Reality for Industry 4.0
S2.2 - MAN (II)	Maintenance and Asset Management (II)
S3.2 - ROB	Automated Factories and Robots
S4.2 - DATA	Data Management in the Industry 4.0 Era
S5.2 - FELICE	Special Session: Human-robot collaboration in assembly systems - the FELICE EU project

Thursday, November 18, 2021 - Day 2						
Round up & Transfer Linz > Hagenberg for in-person participants						
Parallel Sessions						
	Room	S1.1 - exAI	S2.1 - DET	S3.1 - MAT	S4.1 - FOOD (I)	S5.1 - AUS
	Link	Join online >	Join online >	Join online >	Join online >	Join online >
09:10 - 10:50	Chairs	Sobieczky F.	Wojfartsberger J., Wild N., Zenisek J.	Nassehi, A.	Mirabelli, G. Solina V.	Affenzeller M.
09:10 - 09:30	ISM2021-017	ISM2021-018	ISM2021-020	ISM2021-048		B2B/B2S Matchmaking
09:30 - 09:50	ISM2021-024	ISM2021-019	ISM2021-026	ISM2021-074		
09:50 - 10:10	ISM2021-066	ISM2021-105	ISM2021-045	ISM2021-195		
10:10 - 10:30	ISM2021-115	ISM2021-158	ISM2021-051	ISM2021-199		
10:30 - 10:50	ISM2021-122	ISM2021-211	ISM2021-102	ISM2021-201		
10:50 - 11:20 Coffee Break						
Parallel Sessions						
	Room	S1.2 - HEUR	S2.2 - FLEX	S3.2 - DIG	S4.2 - FOOD (II)	S5.2 - CPS
	Link	Join online >	Join online >	Join online >	Join online >	Join online >
11:20 - 13:00	Chairs	Sobieczky F.	Dahane M.	Silvestri L., Forcina A., Piccarozzi M.	Vignali G.	Gravina R., Guerrieri A., Savaglio C.
11:20 - 11:40	ISM2021-086	ISM2021-037	ISM2021-071	ISM2021-002	ISM2021-030	B2B/B2S Matchmaking
11:40 - 12:00	ISM2021-116	ISM2021-060	ISM2021-091	ISM2021-053	ISM2021-078	
12:00 - 12:20	ISM2021-167	ISM2021-147	ISM2021-099	ISM2021-103		
12:20 - 12:40	ISM2021-180	ISM2021-171	ISM2021-109	ISM2021-156		
12:40 - 13:00	ISM2021-183	ISM2021-185	ISM2021-207	ISM2021-186		
13:00 - 14:30 Lunch Break						
Parallel Sessions						
	Room	S1.3 - AUTO	S2.3 - SIMOPT	S3.3 - INN	S4.3 - FOOD (III)	S5.3 - 5G
	Link	Join online >	Join online >	Join online >	Join online >	Join online >
14:30 - 16:15	Chairs	Chiacchio F.	Di Pasquale V., Miranda S.	De Felice F., Petrillo A.	Telukardie A., Munsamy M.	Longo F.
14:30 - 14:50	ISM2021-080	ISM2021-039	ISM2021-012	ISM2021-003		B2B/B2S Matchmaking
14:50 - 15:10	ISM2021-118	ISM2021-041	ISM2021-049	ISM2021-101		
15:10 - 15:30	ISM2021-135	ISM2021-113	ISM2021-083	ISM2021-128		
15:30 - 15:50	ISM2021-160	ISM2021-132	ISM2021-194	ISM2021-138		
15:50 - 16:10	ISM2021-170	ISM2021-159	ISM2021-203			
16:10 - 16:40 Coffee Break						
Plenary Session Keynote 3: From Digital to Universal Manufacturing: A Technology and Social Acceptance Journey Andrew Kisliak						
16:45 - 18:30 Plenary Session Keynote 4: Digital twin development for simulation of machining and metal additive manufacturing processes Tuğrul Özel						
Plenary Session Awards Ceremony						
Round up & Transfer Hagenberg > Linz for in-person participants						
Gala Dinner @Pöstlingberg Schloß, Linz						

Abbreviation	Topic
S1.1 - exAI	Explainable Artificial Intelligence for Industrial Applications
S2.1 - DET	Anomaly Detection and Forecasting
S3.1 - MAT	Digital Maturity of Industrial Companies: Methods and Results
S4.1 - FOOD (I)	Innovation & Sustainability in the Agri-Food Sector
S5.1 - AUS	Special Session: Going from the lab to the field
S6.1 - MEET	B2B/B2S Matchmaking
S1.2 - HEUR	Expert Systems and Heuristic-Based Production
S2.2 - FLEX	Flexible and Reconfigurable Manufacturing Systems
S3.2 - DIG	Digitalization Opportunities for Smart Factories
S4.2 - FOOD (II)	Smart Solutions in the Agri-Food Sector
S5.2 - CPS	Cyber-Physical Systems in Industry 4.0
S6.2 - MEET	B2B/B2S Matchmaking
S1.3 - AUTO	The Automotive Sector in the Industry 4.0 Era
S2.3 - SIMOPT	Simulation and Optimization in Production
S3.3 - INN	Innovation Management and Digital Value Creation
S4.3 - FOOD (III)	Innovative Solutions for Agri-Food Supply Chain Traceability & Quality
S5.3 - 5G	Special Session: 5G and next-generation Wireless Communication Technologies
S6.3 - MEET	B2B/B2S Matchmaking

Friday, November 19, 2021 - Day 3						
Round up & Transfer Linz > Hagenberg for in-person participants						
Parallel Sessions						
	Room	S1.1 - EDU4.0	S2.1 - ENE	S3.1 - LEAN	S4.1 - SCD	S5.1 - PROJ (I)
	Link	Join online >	Join online >	Join online >	Join online >	Join online >
09:10 - 10:50	Chairs	Monica Ciolacu	Franciosi C., Iannone R.	Saetta S., Caldarelli V.	Bottani E., Bigliardi B.	Affenzeller M.
09:10 - 09:30	ISM2021-043	ISM2021-027	ISM2021-038	ISM2021-069		B2B/B2S Matchmaking
09:30 - 09:50	ISM2021-058	ISM2021-146	ISM2021-042	ISM2021-119		
09:50 - 10:10	ISM2021-085	ISM2021-182	ISM2021-104	ISM2021-169		
10:10 - 10:30	ISM2021-110	ISM2021-196	ISM2021-151	ISM2021-174		
10:30 - 10:50	ISM2021-154	ISM2021-197	ISM2021-200	ISM2021-205		
10:50 - 11:20 Coffee Break						
Parallel Sessions						
	Room	S1.2 - SCHED	S2.2 - HRC (I)	S3.2 - FORM	S4.2 - SYS	S5.2 - PROJ (II)
	Link	Join online >	Join online >	Join online >	Join online >	Join online >
11:20 - 13:00	Chairs	Hauder V. A., Beham A.	Fruggiero F., Agnudet G. P., Gnani M. G.	Yang, K.	Tornese, F.	Padovano A.
11:20 - 11:40	ISM2021-061	ISM2021-095	ISM2021-097	ISM2021-022		B2B/B2S Matchmaking
11:40 - 12:00	ISM2021-145	ISM2021-077	ISM2021-129	ISM2021-033		
12:00 - 12:20	ISM2021-188	ISM2021-117	ISM2021-136	ISM2021-095		
12:20 - 12:40	ISM2021-189	ISM2021-117	ISM2021-164	ISM2021-065		
12:40 - 13:00	ISM2021-192	ISM2021-202	ISM2021-165	ISM2021-009		
13:00 - 14:30 Lunch Break						
Parallel Sessions						
	Room	S1.3 - SEA4.0	S2.3 - HRC (II)	S3.3 - BIO	S4.3 - BSNS	S5.3 - 15.0
	Link	Join online >	Join online >	Join online >	Join online >	Join online >
14:30 - 16:15	Chairs	Smith, K.	Romero D., Stahre J., Berglund Å.-F., Wuest T.	Umbrello S.	Nahhas A., Kharitonov A., Pohl M., Turowski K.	Rada M.
14:30 - 14:55	ISM2021-059	ISM2021-070	ISM2021-044	ISM2021-095		B2B/B2S Matchmaking
14:55 - 15:15	ISM2021-107	ISM2021-133	ISM2021-046	ISM2021-120		
15:15 - 15:35	ISM2021-123	ISM2021-157	ISM2021-052	ISM2021-144		
15:35 - 15:55	ISM2021-143	ISM2021-208	ISM2021-191	ISM2021-206		
15:55 - 16:15	ISM2021-179	ISM2021-212				
16:10 - 16:40 Coffee Break						
Parallel Sessions						
	Room	S1.4 - CUST	S2.4 - TECH	S3.4 - SENS	S4.4 - LOG	S5.4 - ML
	Link	Join online >	Join online >	Join online >	Join online >	Join online >
16:40 - 18:20	Chairs	Padovano A.	Filice L., Ambrojo A.	Bottani, E.	Beham, A.	Burlacu, B.
16:40 - 17:00	ISM2021-010	ISM2021-011	ISM2021-008	ISM2021-015	ISM2021-021	B2B/B2S Matchmaking
17:00 - 17:20	ISM2021-029	ISM2021-031	ISM2021-032	ISM2021-082	ISM2021-087	
17:20 - 17:40	ISM2021-050	ISM2021-094	ISM2021-149	ISM2021-098	ISM2021-114	
17:40 - 18:00	ISM2021-089	ISM2021-148	ISM2021-161	ISM2021-112	ISM2021-121	
18:00 - 18:20	ISM2021-139	ISM2021-178	ISM2021-181	ISM2021-184	ISM2021-140	
18:30 - 18:45 Plenary Session Closing Speech and ISM 2022 Announcement						
Round up & Transfer Hagenberg > Linz for in-person participants						

Abbreviation	Topic
S1.1 - EDU4.0	Engineering Education 4.0
S2.1 - ENE	Smart Grids, Sustainability and Circular Economy in the Industry 4.0 era
S3.1 - LEAN	Lean Production 4.0
S4.1 - SCD	Supply Chain Digitalization
S5.1 - PROJ (I)	Roundtable: R&D Project Dissemination Activities (I)
S6.1 - MEET	B2B/B2S Matchmaking
S1.2 - SCHED	Production Planning & Scheduling
S2.2 - HRC (I)	Human Robot Collaboration & Human Machine Interaction (I)
S3.2 - FORM	Abstract and Formal Knowledge Models
S4.2 - SYS	Enterprise Systems Interoperability and Connectivity
S5.2 - PROJ (II)	Roundtable: R&D Project Dissemination Activities (II)
S6.2 - MEET	B2B/B2S Matchmaking
S1.3 - SEA4.0	Towards the Maritime Industry 4.0
S2.3 - HRC (II)	Human Robot Collaboration & Human Machine Interaction (II)
S3.3 - BIO	Bio-inspired Manufacturing & Ethical Aspects
S4.3 - BSNS	Business Models and Change Management in the 4th Industrial Revolution
S5.3 - 15.0	Special Session: Industry 5.0. Where are we headed to?
S6.3 - MEET	B2B/B2S Brokerage Meetings
S1.4 - CUST	Mass Customization and Flexible Order Management
S2.4 - TECH	Manufacturing Processes and Technologies
S3.4 - SENS	Sensing, Process Monitoring & Control
S4.4 - LOG	Smart Logistics and Retail
S5.4 - ML	Machine Learning for Industrial Applications
S6.4 - MEET	B2B/B2S Matchmaking

*subject to changes
 Last update: 16 November 2021