Date	Session	Time						
22-Jun	1	11:00 - 12:20 (80 min.)						

Number	Room	Topic	Session Chair	Order	ID	Title	Presenter	
							First Name	Last Name
1	Tel Aviv	AI in Manufacturing: Predictive Analytics	Farouq Halawa (Amazon)	1	2968	Automated Wood Chip Size Distribution Estimation With Deep Learning-based Object Detection in High Volume Biomass Manufacturing	Haifeng	Wang
				2	1245	Application of Ensemble Learning to Classify Failures in Lithium-ion Batteries	Milton	Borsato
				3	4757	Implementation of a Reinforcement Learning Application for Production Scheduling Including Practical Constraints	Michael	Groth
				4	7984	Prediction of Machined Surface Roughness Using Cutting Load and Machining History Data	Ilhwan	Yang
2	Tokyo	Digital Twins in Manufacturing Systems	Eric Coatanea (Tampere University)	1	9802	Correlation Analysis Between Predicted MRR and Machining Load in CNC Machining	SeungKi	Kim
				2	1418	Exploring Model-based Design for Conceptual Development of Smart Pharmaceutical Production Equipment	Roland	Wölfle
				3	2092	Improving Environmental Sustainability in Engineer-to-order Manufacturing: A Case Study on Control Cabinets	Patrick	Bruendl
				4	4722	Towards Sustainable Digital Transformation in SMEs: Integrating IoT, Digital Twins, and AI for Enhanced Manufacturing Efficiency	Zeina	Elrawashdeh
3	London	Cybersecurity	Albrecht Hänel (Fraunhofer Institute for Machine Tools and Forming Technology)	1	4647	Semantic Technologies and Attributed Role-based-access-control in Policy Frameworks - A Systematic Literature Review	Sandra	Starchenko
				2	0380	Enhancing Environmental Sustainability Through Secure and Resilient IoT Software Updates	Akosua	Cobbina
				3	1733	Enhancing Cybersecurity in Industrial IoT with Deep Hybrid Learning Models: A Comparative Study of Machine Learning and Deep Learning Approaches	Ali	Hosseinzadeh Ghobadlou
				4	3416	Trustworthy Cross-company Collaboration in Industrial Data Spaces Through Decentralized Authentication and Blockchain Traceability	Nicolai	Maisch
4	Sydney	Resilient Manufacturing Systems	Hiromasa Ijuin (Chiba Institute of Technology)	1	9163	Individual Entities and Networks in Production Planning	Tomohiro	Nakada
				2	7702	Method for Determining the Most Suitable Grasp TCP for Robot Part Handling	Justus	Rein
				3	8202	The Integration of Lean Six Sigma Solutions and Emerging Technologies for Resilient Manufacturing in The Rail Transportation Sector in South Africa	Genevieve	Bakam
				4	6369	Facilitating Interoperability in Manufacturing Systems Using Digital Twins: A Proactive Multi-asset AAS System	Basem	Elshafei
5	Toronto	Process Scheduling and On-Demand Manufacturing	George-Christopher Vosniakos (National Technical University of Athens)	1	2795	Sheet Metal Process Planning in The Age of Smart Manufacturing	Tshifhiwa	Nenzhelele
				2	3124	Quantum Annealing for CAD-based Disassembly Sequence Optimization	Joao Paulo	Jacomini Prioli
				3	7676	Digital Hyperconnectivity of Supply Chains with Shop Floors for Material Sustainability	Lisa	Cook
				4	4672	Performance Evaluation of Copper Cold Plates Manufactured Via Metal Fused Filament Fabrication and Alternative Methods	Ulas	Yaman
6	Dubai	Flexible and Collaborative Manufacturing / Human-Robot Interaction	Shuho Yamada (Toyama Prefectual University)	1	7023	Modular Plc Program Development of A Robotic Work Cell Using Cee Simulation	Mohsin	Raza
				2	7164	Multimodal Intention Recognition for Dynamic Tool Sharing in Anthropocentric Human-robot Collaborative Applications	Luca	Gualtieri
				3	8953	A Fully Automated Method for Identifying Layup Molds With Minimal Robot Touchpoints	Nicholas	LaBonte
				4	6654	Development of a Talent Management Support System for Sustaining Organizational Human Capability	Hayato	Morioka

Date	Session	Time							
22-Jun	2	13:20 - 14:40 (80 min.)							

Number	Room	Topic	Session Chair	Order	ID	Title	Presenter		
							First Name	Last Name	
1	Tel Aviv	Global Manufacturing	Yuki Kinoshita (UEC)	1	1108	Design of a Locally Manufactured, Efficient and Robust Multi-crop Slicer	Bede	Aririguzo	
				2	6366	Exploring The Impact of Localization on Global Manufacturing Collaboration: A System Dynamics Approach	Lucas	Khashane	
				3	8391	Global Manufacturing Collaboration: Driving Innovation and Sustainability in Rural Areas	Hluphi Constance	Mafuwane	
				4	2854	Designing Global Supply Chain Network Under Carbon Border Adjustment Mechanism for A Low-carbon Economy	Hiromasa	Ijuin	
2	Tokyo	Quality Controls	Aya Ishigaki (Tokyo University of Science)	1	7579	Reliability Evaluation of A Two-unit System with Load-sharing under Dependent Degradation-shock Processes	Lei	Zhou	
				2	9938	A Comparative Wear Evaluation of Chromium-coated Tools in The Drilling of 7075-T6 Aluminum Alloy, AISI 1045 Steel and Stainless Steel AISI 304	Gustavo	Barbosa	
				3	1332	Productivity Improvement of Transfer Systems for Automotive Stamping Processes	Raúl	Campilho	
				4	4896	Signal Synchronization and Segmentation in CNC Lathe Machines	Che-Wei	Chou	
3	London	Additive Manufacturing	Torbjørn Leirmo (SINTEF)	1	2366	A Novel Real-time Defect Analysis Based on Large Language Model in Additive Manufacturing	Jinghao	Yang	
				2	8842	AI-enhanced Real-time Additive Manufacturing Defect Detection Method	Martha	Asare	
				3	4651	Development of A Process Data-based Deposition Simulation for Extrusion-based 3D Printing Processes as a Process Model for Generating Digital Twins	Albrecht	Hänel	
				4	4753	Differentially Driven Extrusion System for High Speed FDM 3D Printing	Sherwin	Salemi	
4	Sydney	Resilient Manufacturing	Kyoung-Yun Kim (Wayne State University)	1	5054	Risk Mitigation in Safety-critical Bolt Torque Settings for Resilience Manufacturing Assemblies	Tshifhiwa	Nenzhelele	
				2	5103	Environmental Sustainability Assessment of Redistributed Manufacturing	Konstantinos	Salonitis	
				3	8656	Analysis of Manufacturing System Resilience through Dynamic Resource Allocation and Scheduling	Dusan	Sormaz	
				4	7892	A Transnational Case Study of Karakuri Kaizen in Modern Manufacturing Environments	Eivind	Reke	
5	Toronto	Sustainable System	Andrea Trianni (UTS)	1	1215	Modeling and Optimization of Friction Stir Welding Processes Under Carbon Policy for Low-carbon Production	Yi-Chi	Wang	
				2	6120	A Decision Support Model for Efficient Garment Reprocessing for a Sustainable Circular Business Model	Gokula	Vasantha	
				3	0206	Techno-economic Analysis and Life Cycle Assessment of Waste Polypropylene Reinforced with Recovered Short Carbon Fibres for 3D-printed Automotive Panels	Paul Njeni	Mabalane	
				4	1617	Exploring The Impacts of Industry 4.0 Technologies on The Triple Bottom Line of Sustainability in Industrial Companies	Ana Correia	Simões	
6	Dubai	AI in Manufacturing: Intelligent Resilient Manufacturing	Marcello Pellicciari (University of Modena and Reggio Emilia)	1	7976	Prediction of Tensile Strength and Impact Strength in Fused Deposition Modeling Using A Machine Learning Pipeline	Anne	Vogler	
				2	9947	TinyML-powered Tack Weld Detection for Robotic Welding	Eric	Coatanea	
				3	5484	The Impact of the Application of Machine Learning Techniques for Dynamic Decision-making in Manufacturing.	Ragosebo Kgaugelo	Modise	
				4	6164	Towards Semantic Interoperable and Resilient Manufacturing Process Integrating Generative Artificial Intelligence and Semantic Technologies	Anderson	Szejka	
7	Paris	Emerging Technologies	Kanishkan Tamilarasan (Binghamton University)	1	4085	An Exploration of Design Approaches for Cutting Edge Technology Adoption	Paul Njeni	Mabalane	
				2	8831	Enhancing Digital Technology through a Comparative Analysis of Emerging Technologies Impact on Textile Manufacturing Industry	Thabo Jameson	Selowa	
				3	5457	Optimizing Procurement and Inventory Management through Metaheuristics to Minimize Waste and Scrap in Industrial Processes	Paul Eric	Dossou	
				4	4254	Microstructural Studies and Mechanical Performance Evaluation of Graded SS316-Inconel 718 Material Fabricated via Hybrid Metal Additive Manufacturing	Deepak	Mudakavi	

Date	Session	Time						
22-Jun	3	14:55 - 16:15 (80 min.)						

Number	Room	Topic	Session Chair	Order	ID	Title	Presenter	
							First Name	Last Name
1	Tel Aviv	Process Scheduling and On-Demand Manufacturing	Kotomichi Matsuno (Rissho University)	1	2253	Scheduling Considering Design Engineer Skill for Engineer-to-order Manufacturing	Kotomichi	Matsuno
				2	5619	Enhancing The Production of Toilet Paper to Increase Its Strength and Decrease The Disintegration Index	Marianna	Jędrych
				3	7127	Automated Ai Planning for Tool Change in Intelligent Robotized Plug & Produce Manufacturing	Anders	Nilsson
				4	0989	Production Planning Optimization Model Considering Line Availability in Semiconductor Manufacturing	Dongwoo	Go
`2	Tokyo	AI in Manufacturing: Adaptive Manufacturing Processes	Chike F Oduoza (University of Wolverhampton)	1	2917	Low-temperature Sintering Study for Aerosol Jet Printed Flexible Electronics Across Diverse Substrates	Mariona	Martin
				2	9999	Wafer Acceptance Test Based Wafer Sort Current Leakage Prediction for Semiconductor Wafer Supply Planning	Kanishkan	Tamilarasan
				3	5617	Heuristic Procedure for Setup Planning of Features with Multiple Processing Requirements and Alternative Processes	Dusan	Sormaz
				4	0726	Data-driven Process Planning for Machining of Additively Manufactured Components	Moritz	Goeldner
3	London	Technologies for Industry 5.0	Paul Eric Dossou (ICAM)	1	0497	Development of a Human-robot Collaboration Framework Using Computer Vision for Collaborative Robotics in Industry 5.0	Kokou	Lissassi
				2	1648	Enhancing Lean Manufacturing Education with Didactic Gaming and Machine Learning: A Human-centric Approach to SMEs Training for Industry 5.0	Enrique	Contreras Lopez
				3	5709	On The Dynamic Capabilities of Manufacturing Companies Towards Industry 5.0 under Volatile Conditions	Zeljko	Vukelic
				4	7232	Sustainable Performance in Industry 5.0: Optimizing Supply Chains with Innovative Decision Systems	Paul Eric	Dossou
4	Sydney	Digital Twins in Manufacturing Systems	Eivind Reke (SINTEF)	1	0158	Enabling Non-smart Assets Using Peripheral Digital Twins	Alexandra	Ritter
				2	2327	Advanced 3D-printed Scaffolds for Bone Regeneration in Orthodontics: A CBCT-based Approach for Reconstruction	Giuliana	Baiamonte
				3	2675	Enhancing Sustainability and Efficiency in Algae Cultivation through Iiot and Asset Administration Shell	André	Costa
				4	3579	An Ontology-based Ethical Framework for Green Digifacturing in The South African Energy Sector: A Case Study of Eskom	Genevieve	Bakam
5	Toronto	System Sustainability	Yi-Chi Wang (Feng Chia University)	1	2414	LSTM and Bayesian Computation in Uncertainty Quantification for Wind Energy Forecasting	Mohammed	Al-Mahmodi
				2	7725	Assessing The Scope 3 Emissions in Manufacturing Organisations	Konstantinos	Salonitis
				3	2913	Unlocking Energy Productivity in Australian SMEs with Industry 4.0	Andrea	Trianni
				4	6896	Optimising Hospital Hvac Systems Medical Heating Equipment Energy Efficiency	Olukorede	Adenuga
6	Dubai	Logistics and Operational Management	KangTing Ma (National Dong Hwa University)	1	0891	Evaluation and Optimization of Logistical Target Values for Cellular Automated Guided Vehicles	Torben	Mente
				2	2966	Optimizing Pricing and Inventory Decisions in Vendor-buyer Supply Chains through A Multi-agent Artificial Intelligence Framework Under A Stackelberg Game Model	KangTing	Ma
				3	3598	Framework to Mitigate Delay Factors in Construction Projects: A Case Study in Ghana	Stanley Ankrah	Twumasi
				4	9208	Integrated Engineering Change Management Framework for Efficient Information Flow for Product Design	Adnan	Bantwal
7	Paris	Human Factor in the Manufacturing Industry	Koki Karube (UEC)	1	0168	Experimental Analysis on Composite Multi-stack Robotic Drilling Operations - Part 1	André F. V.	Pedroso
				2	2747	Learn Manufacturing Together: Research on Mixed Reality Group Teaching of CNC Machine Tools	Jianhao	Chen
				3	1619	Workload Analysis of Order Pickers in Robotic Mobile Fulfillment Systems	Yurika	Ono
				4	6562	Development for a Stable and Effective Seating Allocation Algorithm in Hot-desking with Matching Theory and Network	Fumikazu	Hoyano

Date	Session	Time							
22-Jun	4	16:30 - 17:50 (80 min.)							

Number	Room	Topic	Session Chair	Order	ID	Title	Presenter		
							First Name	Last Name	
1	Tel Aviv	System Sustainability	Tomohiro Nakada (Bunkyo Gakuin Univ.)	1	6440	Use of an Orchestrator to Deploy Digital Twins for Sustainable Manufacturing Use Cases	Panagiotis	Stavropoulos	
				2	7389	Comparison of Motion Study and Data Science Methods for Proficiency in Disassembly Task Movement via Motion Capture	Taku	Hayashi	
				3	3509	Development of An Environmental Sustainability Framework for a Multi-gas Analyzer and the Impact of Emerging Technologies Using Python	Bede	Aririguzo	
2	Tokyo	Digital Twins in Manufacturing Systems	Che-Wei Chou (Feng Chia Univ.)	1	9187	Digital Twins for Intelligent Production of Submarine Optical Fibers	Giuseppe	Laudani	
				2	0137	Optimizing Warehouse Intralogistics with Simulation: Combining AMRS and Container Loading Strategies	Romão	Santos	
				3	6593	Developing a Methodology for Human-Robot Interaction: From Dataset Creation to Mobile Robot Control in Industrial Environments	Zeina	Elrawashdeh	
3	London	Manufacturing Technologies	Seunghoon Lee (Dong-A Univ.)	1	5591	Constructing Transformation Equations for Modeling 4D Printing Re-entrant Honeycomb Structures with Shape Memory Polymers	Kyoung-Yun	Kim	
				2	6525	Towards a Sustainable Aerospace Industry: A Concept for a standardized Life Cycle Assessment Data Exchange in the Aviation Supply Chain	Joanna	Steiner	
				3	4241	Method for Determining The Stiffness of Milling Robots In-process Using Internal Sensor Data	Jannik	Huellemann	
				4	5559	Feasibility Assessment of a PLA/PHBV Bioplastic Blend for an Industrial Thermoforming Process: Thermoforming Window and Mechanical Strength Evaluation	Sanaz	Afshariantorghabeh	
4	Sydney	Computer Vision in Manufacturing Systems	Jinghao Yang (UTRGV)	1	3907	Deep Learning-based Object Detection for Automated Disassembly of Control Cabinets	Albert	Scheck	
				2	2798	Enhancing False Call Detection in Automated Optical Inspection Using XGBoost Classifier and XAI Algorithms	Jenan	Albayari	
				3	2777	Real-time Computer Vision System for Monitoring Conveying Systems	Farouq	Halawa	
				4	9480	Integrating 3D Object Detection with Ontologies for Accurate Digital Twin Creation in Manufacturing Systems	Tina	Boroukhian	
5	Toronto	Flexible and Collaborative Manufacturing / Human-Robot Interaction	Luca Gualtieri (UNIBZ)	1	4544	The Performance of Force Compliance Solutions in Cobot-driven Sheet Metal Deburring	Tarek	Algeddawy	
				2	7291	Design and Implementation of An Automated Conveying System for Control Cable Terminal Production in The Automotive Industry	Raúl	Campilho	
				3	0507	A Framework for Integrated Design of Human-robot Collaborative Assembly Workstations	Marcello	Pellicciari	
6	Dubai	AI in Manufacturing: Intelligent Process Control	Michele Cali (Univ. of Catania)	1	1666	Machine Learning-enhanced Optimization of PI Controllers for Multivariable Distillation Column	Vinayambika	S Bhat	
				2	2308	Multimodal Sensory-Textual Fusion for Context-Aware Decision-Making in Railcar Assembly Robots	Olukorede Tijani	Adenuga	
				3	8528	Robust Parameter Derivation for Lpbfm Process Monitoring: Insights From Melt Pool Analysis of TI64V Single Layer Tracks	Joshua	Simon	
				4	7196	PhyVit-GAN: Physics-guided MobileVit-GAN for Precise Self-alignment Image Generation	Manav	Barot	
7	Paris	Smart Manufacturing	Sara Kohtz (Binghamton Univ.)	1	4698	Digital Twin for Automated Post-processing Chain in Additive Manufacturing	Sissy-Linh	Nguyen	
				2	2613	Enhancing Manufacturing Performance and Precision with Computer Vision and Human-centric Innovations	Anderson	Szejka	
				3	9911	Effective Strategy Development and Implementation in SMEs using Hoshin Kanri Method	Munir	Ahmad	
				4	2295	Measurement of The Barrier Properties of Multilayer Plastic Sealing Joints Used in Packaging Applications	Sami	Matthews	

Date	Session	Time						
23-Jun	1	10:30 - 11:50 (80 min.)						

Number	Room	Topic	Session Chair	Order	ID	Title	Presenter	
							First Name	Last Name
1	Tel Aviv	AI in Manufacturing: Manufacturing Intelligence	Abdelrahman Farrag (Binghamton Univ.)	1	8491	BURGAL: An Iterative Guided Active Learning Sampling Approach for Smart Manufacturing Systems	Abdelrahman	Farrag
				2	9789	Resilient Optimal Sensor Placement and Fault Diagnosis of Permanent Magnet Synchronous Motors within Industrial Manufacturing Applications	Sara	Kohtz
				3	9320	Quality Assessment and Fast Geometry Prediction in Paperboard Forming	Klara	Liesegang
				4	9031	AI-driven Risk Estimation: a GPT-based Approach to News Monitoring for Manufacturing Resilience	Adrian	Jacob
2	Tokyo	Digital Twins and Manufacturing Systems	Haifeng Wang (Mississippi State Univ.)	1	9751	Modeling Hardness Surface of 3D Selective Laser Melting Metal Materials	Michele	Calì
				2	8565	Developing a Thermal Deformation Compensation Mechanism for CNC Lathe Machines	Xuan Rong	Chen
				3	5230	Automated Machining Time Identification and Signal Segmentation for CNC Lathe Machines Utilizing G-code Interpreter and CNN Model	Yu Chieh	Chen
				4	9225	Modeling Flexible Configuration of Cell Finishing for Future Battery Production Research	Sicong	Deng
3	London	AI in Manufacturing: Advanced Predictive Optimization	F. Frank Chen (UTSA)	1	9057	Advanced Forecasting Techniques for Strategic Decision-making in Manufacturing: Analyzing Financial Market Predictive Models	F. Frank	Chen
				2	9371	Assembly Line Coordination for Fault Tolerance in Railcar Manufacturing Using MADDPG Approach	Ragosebo Kgaugelo	Modise
				3	5611	A Convolutional-neural-network-based Mounter Defect Diagnostic Module for Multiple Issues Detection and Simulation in Pick-and-Place Process	Zhenxuan	Zhang
				4	5220	Enhancing SMT Assembly Quality through Mounter Parameter Optimization with A Novel Energy Minimization Logic Simulator and Machine Learning	Jaewoo	Kim
4	Sydney	Systems Automation	Amit Lopes (UTEP)	1	1697	Wireless Networks-in-network for Automation in Manufacturing	Jan	Mertes
				2	8251	Concave Geometric Wear Compensation in Automated Flap Wheel Grinding	Falko	Kähler
				3	1222	Automated Conformal Coating Coverage Defect Detection in Smart Manufacturing Using Faster R-CNN	Hemi	Patel
				4	3231	Design of a Cruise Control Vibration Deactivation Management System	Thabo Jameson	Selowa
5	Toronto	Human-Robot Collaboration	Raul Campilho (ISEP)	1	3247	Gesture Recognition through Object Detection for Efficient Human-Robot Collaboration	Akosua	Cobbina
				2	3403	Unleashing the Future of Manufacturing: A Journey Into Industry 5.0's Human-machine Synergy for Enhanced Railway	Patience	Mofokeng
				3	3487	Impact of Human-Robot Collaboration on Production Resources: An Assessment Framework in Manufacturing	Andrea	Trianni
				4	8669	Robotic Grasp Planning for Unknown Objects Using Real-time Digital Twin Integration	Chen Yang	Cheng
6	Dubai	Emerging Technologies / New Product Design	Marisa Oliveria (INEGI)	1	5642	A Hybrid Strategy for Paint Oven Optimization in Aerospace Manufacturing: Lean Principles and Mathematical Modelling	Marisa	Oliveira
				2	5961	Emerging Technologies and Performing Materials in Manufacturing Dental Prostheses: The Role of Chewing Simulators	Giuliana	Baiamonte
				3	3538	Online 3D-reconstruction of Weld Morphology Using a Structured-light Welding Camera	Eric	Coatanea
				4	4126	Intelligent Mixed Reality Platform for CNC Machine and 3D Printer Operation and Management	Jennifer	Remus

Date	Session	Time							
23-Jun	2	12:50 - 14:10 (80 min.)							

Number	Room	Topic	Session Chair	Order	ID	Title	Presenter		
							First Name	Last Name	
1	Tel Aviv	Sustainability in the Manufacturing and Energy Systems	Tetsuo Yamada (UEC)	1	4393	Demand and Capacity Sharing Decisions and Protocols in Multi-microgrid Using Deep Learning	Kotaro	Akino	
				2	4530	Decision Support System to Promote Cloud Computing Adoption; Case Study of The Upstream Oil and Gas Sector	Chike	Oduoza	
				3	6716	Disassembly System Design with Cybersecurity Risk in Remanufactured Products to Maximizing Recovery Rate and Profit	Yuki	Kinoshita	
				4	5620	IoT-driven Real-time Indoor Air Quality Monitoring System for Enhanced Environmental Safety	Amit	Lopes	
2	Tokyo	Human Factor	Fatemeh Davoudi (Santa Clara Univ.)	1	2633	Humans and AI in Harmony? Hybrid Decision Architectures As The Key to Industry 5.0	Thorben	Krokowski	
				2	5206	Evaluating Impact of Occupational Exoskeletons on Physical Fatigue Using Wearable Sensors and Deep Learning	Fatemeh	Davoudi Kakhki	
				3	6992	Extended Reality for The Inclusion of Disabled Operators: A Systematic Literature Review	Marco	Lanzone	
				4	8430	Human-centric Digitalization - Digital Triplet	Hiroto	Narumiya	
3	London	Digital Twins	Michele Calì (Univ.of Catania)	1	4065	Generative Machine Learning Technique for Wire Electrical Discharge Machining Optimization of Inconel 718 - A Predictive Maintenance Approach	Pramod S	Kataraki	
				2	5844	Enhancing Picking-by-line Operations: A Simulation-based Approach	Romão	Santos	
				3	6488	An Accurate Manufacturing Methodology for Automotive Hinges with Close-range Bushings	Michele	Calì	
				4	7645	Cyber-Physically Controlled Smart Machine Tool Systems - Standardisation Efforts in ISO/TC 184 Versus Controller Implementation in Dynamically Evolving Environments	Albrecht	Hänel	
4	Sydney	AI in Manufacturing: Process Improvement	Marcel Wagner (RPTU)	1	1850	Multi-stage Predictive Framework for Early Anomaly Detection and Real-time Alerts in Data Center Thermal Systems	Rushil Kaushikkumar	Patel	
				2	9015	Digital Twin-enabled Quality Assurance Analysis of Metal Manufactured Parts Based on Neural Networks Applied to 3D Meshes	João Vítor	Arantes Cabral	
				3	6644	Graph Topology-guided Manufacturing Knowledge Representation and Knowledge Integration for Manufacturing Process Selection	Kyoung-Yun	Kim	
				4	0344	Optimizing Paperboard Press Forming with LSTMs: Unveiling Process Dynamics through Latent Space Representations	Sami	Matthews	
5	Toronto	Systems Optimization	Maria Teresa Pereira (Polytechnic of Porto)	1	0747	Comparative Analysis through Experimentation On The Precision and Accuracy of A Collaborative Robot vs. Human Operators in Pick and Place Operations	Christopher	Greene	
				2	2394	A Novel Approach for Monocular Rgb-based Ergonomics Monitoring in Industrial Workspaces Employing Synthetic Datasets to Train A Deep Learning Model	Thomas	Agostinelli	
				3	7832	Optimization of Metal Sheet Cutting Processes Using Integer Linear Programming: Reducing Waste and Enhancing Production Efficiency	Maria Teresa	Pereira	
				4	9895	Towards A Roadmap From Topological Optimisation to Laser Powder Bed Fusion for Structural Machine Parts	Georgios Christoforos	Vosniakos	
6	Dubai	Smart Systems	Panorios Benardos (National Technical Univ. of Athens)	1	9299	Effectiveness Evaluation of a Virtual Reality Environment for CNC Machine Tool Training	Panorios	Benardos	
				2	3447	A Novel Approach to Recognition and Embedding of The Machining Feature for Mechanical Parts	Zirui	Li	
				3	2786	Ensemble Learning Approaches for Automated Defect Detection: Integrating Computer Vision and Machine Learning Techniques	Ali	Hosseinzadeh Ghobadlou	
				4	8944	Data-driven Lean Six Sigma: Enhancing Agility and Productivity in Die Maintenance Process	Rasoul	Rashidifar	

Date	Session	Time						
23-Jun	3	14:25 - 15:45 (80 min.)						

Number	Room	Topic	Session Chair	Order	ID	Title	Presenter	
							First Name	Last Name
1	Tel Aviv	Emerging Technologies	Seiichi Takamatsu (Binghamton Univ.)	1	3439	Fabrication Process of Wearable Electronic Packaging for VR and Biomedical Applications	Seiichi	Takamatsu
				2	5956	A Sustainability-centric Assessment Framework for Digital Solutions Across Industries	Svenja Nicole	Schulte
				3	7696	The Impact of Emerging Technologies in Metal-additive Manufacturing	Taoreed	Adegbola
				4	8088	A Framework for Mapping Industry 5.0 Technologies for SMEs	Torbjørn	Leirmo
2	Tokyo	Flexible and Collaborative Manufacturing / Human-Robot Interaction	Ana Correia Simoes (INESC TEC)	1	2579	Development of a Robotic Additive Manufacturing Cell Based on The LMD-wire Process	Brayan Stiven	Figueroa Betancourth
				2	7954	Simulation-driven Approach for Dimensioning Amr Fleets in Distribution Centre Logistics	Henrique	Piqueiro
				3	9892	Intelligent Automatic Storage and Retrieval Systems for Flexible Manufacturing	Georgios Christoforos	Vosniakos
				4	2074	Skill-based Adaptation through Intuitive Interfaces: Multi-modal Guidance Systems for Industrial Environments	Johann	Mitteramskogler
3	London	AI in Manufacturing: Process Optimization and Diagnostics	Chao-Lung Yang (National Taiwan University of Science and Technology)	1	3724	Investigating The Influence of Prompt Design in The Generation of Failure Mode and Effects Analysis for Manufacturing Processes Using Large Language Models	Marcel	Wagner
				2	7170	Incorporating Process Quality Capability Into Process Parameter Tuning for High-voltage Power Cable Manufacturing	Chao-Lung	Yang
				3	5136	Intelligent Battery Design Method Based on Deep Learning Algorithm	Jinghao	Yang
				4	8127	Large Language Models for High-level Computer-aided Process Planning in a Distributed Manufacturing Paradigm	Panorios	Benardos
4	Sydney	Digital Twins in Manufacturing Systems	Olukorede Adenuga (Tshwane Univ. of Technology)	1	9040	Simulation-driven Decision-making for Process Optimization for Gate Valve Value Stream Production Line	Anush Kumar	Gunalan
				2	5587	Gathering Personalized Design Requirements via Digital Twin	Garrett	Robison
				3	9184	Numerical and Experimental Investigation of Mechanical Properties of Carbon Fiber Reinforced Parts	Ulas	Yaman
				4	4948	A High Throughput Experimental System for The Continuous Casting of Glass-coated Microwires	Ahmed	Alajlouni
5	Toronto	Green Manufacturing Systems	Taoreed Adegbola (Tshwane University of Technology)	1	5621	Development of an Energy Consumption Monitoring and Prediction Model for CNC Machine Tools Using The Taguchi Method Integrated with Machine Learning	Chir-Jang	Tsai
				2	4356	Research of Image-based Layer Geometry Monitoring System Combining with ROS2 Platform for WAAM Process	Di	Wu
				3	3225	Dematerialization & Knowledge as Manufacturing Attributes: Dimensionless Metrics	Panagiotis	Stavropoulos
				4	8124	Data Model for Ecological Sustainability in Manufacturing: A Digital Product Passport Approach	Samed	Ajdinovic
6	Dubai	Systems Sustainability	Gokula Vasantha Edinburgh Napier University)	1	6967	Blockchain for Secure Manufacturing & Energy Systems	Yogi	Joshi
				2	0633	A System Dynamics Modelling Approach to Improve Passenger Transportation System in South Africa: A Case of The City of Tshwane	Lucas	Khashane
				3	3908	Quality 4.0 As A Driver for Corporate Sustainability: An Approach for Integrating ESG Strategy into Business Operations	Milton	Borsato
				4	4451	A Scheduling Decision-making Framework Using Machine Learning Algorithm for Energy Efficient Integrated Factory	Gokula	Vasantha