

Vertical and Topical Tracks Program

(WEDST – Western European Daylight Savings Time, Local Time in Aveiro)

San Francisco	New York	Aveiro	Rome	New Delhi	Beijing
00:30h-02:30h PDST	03:30h-05:30h EDST	08:30h-10:30h WEDST	09:30h-11:30h CEST	13:00h-15:00h IST	15:30h-17:30h CST
03:00h-05:00h PDST	06:00h-08:00h EDST	11:00h-13:00h WEDST	12:00h-14:00h CEST	17:30h-19:30h IST	20:00h-22:00h CST
06:00h-08:00h PDST	09:00h-11:00h EDT	14:00h-16:00h WEDST	15:00h-17:00h CEST	20:30h-22:30h IST	23:00h-01:00h CST (Next Day)
08:00h-10:00h PDST	11:30h-13:30h EDST	16:00h-18:00h WEDST	17:00h-19:00h CEST	22:30h-00:30h IST (Next Day)	01:00h-03:00h CST (Next Day)

Key to Vertical and Topical Tracks (details)

Special Sessions	Subject	Workshops	Subject
Vert-01	Space	Topi-01	Sensors and Devices
Vert-02	Maritime	Topi-02	Communications and Networking
Vert-03	Agriculture and Aquaculture	Topi-03	Security, Privacy, and Trust
Vert-04	Smart Cities and Mobility	Topi-04	Artificial Intelligence and Machine Learning
Vert-05	Energy, Built Environment, and Sustainability	Topi-05	Computing and Data Processing
Vert-06	Industry and Manufacturing		

Vertical and Topical Track Program Chairs	
	<ul style="list-style-type: none"> • Damir Filipovic, Alliance for IoT and Edge Computing Innovation (AOTI), Brussels, Belgium • Heiner Stüttgen, IEEE Communications Society & NEC Laboratories Europe (retired), Heidelberg, Germany
Vert-06	<i>“Industry and Manufacturing”</i>

<p>Vert-06 - Session 2</p> <p>Tuesday October 24th 14:00-16:00 WEDST Virtual</p>	<p>Session 2: “Enabling Immersive Experiences: Augmented, Virtual, and Mixed Reality in the Industrial Metaverse.”</p> <ul style="list-style-type: none"> • Applications of augmented reality (AR), virtual reality (VR), and mixed reality (MR) technologies within the Industrial Metaverse <p>Moderator: Pedro Malo, Unparallel Innovation, Lda. and Universidade Nova de Lisboa, Lisbon, Portugal</p> <p>Talk 1: “VIROO: VR for Workforce Training?”, Asier Cobanera Jauregui, EMEA Account Manager, Virtualware, Bilbao-Bilbo, Basque Country, Spain</p> <p>Talk 2: “XR5.0: Human-Centric AI-Enabled Extended Reality Applications for the Industry 5.0 Era.”, Pedro Maló, Director and Chief Science Officer, Unparallel Innovation, Lda., Lisbon, Portugal.</p>
<p>Vert-06 - Session 3</p> <p>Wednesday October 25th 14:00-16:00 WEDST Virtual</p>	<p>Session 3: “Secure and Resilient ICT Infrastructure for the Industrial Metaverse.”</p> <ul style="list-style-type: none"> • Challenges and opportunities in building a secure and resilient ICT infrastructure to support the Industrial Metaverse <p>Moderator: Pedro Malo, Unparallel Innovation, Lda. and Universidade Nova de Lisboa, Lisbon, Portugal</p> <p>Talk 1: “A New Industrial Blueprint: Integration of Infrastructure-as-Code, Synthetic Data generation in Metaverse and Big Data Innovations.”, Giovanni Di Orio, Senior Researcher, UNINOVA, Lisbon, Portugal.</p> <p>Talk 2: “Building a Secure Foundation: Leveraging Data Mesh for the Industrial Metaverse.”, Reinhard Mayr, Business Development & Co-Founder, Meshmakers GmbH, Salzburg, Austria.</p>
<p>Vert-06 - Session 4</p> <p>Thursday October 26th 14:00-16:00 WEDST Virtual</p>	<p>Session 4: “Digital Twins: Simulations and Analytics in the Industrial Metaverse.”</p> <ul style="list-style-type: none"> • Utilization of digital twins within the Industrial Metaverse <p>Moderator: Pedro Malo, Unparallel Innovation, Lda. and Universidade Nova de Lisboa, Lisbon, Portugal</p> <p>Talk 1: “The role of Digital Twin Networks in connected industrial systems.”, Jeroen Hoebeke, Professor, imec, IDLab, Ghent University, Ghent, Belgium.</p> <p>Talk 2: “Digital Twin for Manufacturing Quality Control Via Remote Operator Technology.”, Ander García Gangoiti, Senior Researcher on</p>

		<p><i>Data Intelligence for Energy and Industrial Processes, Vicomtech, Pamplona, Spain</i></p> <p>Talk 3: “Utilizing AAS in the Industrial Metaverse for Real-time Oversight: An application in the Agrifood Sector.”, André Lourenço, Engineer at Flowake, Lisbon, Portugal.</p> <p>Talk 4: “Digital models (workers, machines) for Metaverse (based on sensor data).”, Nenad Stojanovic, CEO, Nissatech Innovation Center, Niš, Serbia</p>
	<p>Vert-06 - Session 5</p> <p>Friday October 27th 14:00-16:00 WEDST Virtual</p>	<p>Session 5: “AI and Automation: Intelligent Systems in the Industrial Metaverse.”</p> <ul style="list-style-type: none"> • Integration of artificial intelligence (AI) technologies within the Industrial Metaverse <p>Moderator: Pedro Malo, Unparallel Innovation, Lda. and Universidade Nova de Lisboa, Lisbon, Portugal</p> <p>Talk 1: “The future of AI and AI governance for smarter and safer automation in the supply chain.”, Philippe Sayegh, Chief Adoption Officer, VERSES Global BV, Paris, France.</p> <p>Talk 2: “Merging AI with the Industrial Metaverse for Waste from Electrical and Electronic Equipment.”, Francisco Marques, Senior Researcher, UNINOVA, Lisbon, Portugal.</p> <p>Talk 3: “Safe and Trusted Human Centric Artificial Intelligence in Future Manufacturing Lines.”, John Soldatos, IoT & AI Expert at Netcompany-Intrasoft, Kifisiá, Attiki, Greece</p>