

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

Topi-04	<u>“Artificial Intelligence and Machine Learning”</u>	
	Chairs	<ul style="list-style-type: none"> • Mário Antunes, Universidade de Aveiro, Aveiro, Portugal • Flavio Cirillo, NEC Labs, Heidelberg, Germany
	Topi-04 - Session 1 Monday October 23rd 14:00-16:00 WEDST Virtual	Session 1: “Federated Learning within IoT.” Moderator: Mário Antunes , Universidade de Aveiro, Aveiro, Portugal <i>Talk 1 (Presentation 1493): “Federated learning with Diverse Edges in IoT intelligent systems.”, Nguyen Do Van, National Institute of Information and Communications Technology (NICT), Tokyo, Japan.</i> <i>Talk 2 (Presentation 1447): “Distributed Intelligence: The Next Leap for the Distributed Computing Continuum.”, Andrea Morichetta</i> Distributed Systems Group, TU Wien, Vienna, Austria. <i>Talk 3: “Cloud-IoT and Big Data”, Muhammad Younas</i> , School of Engineering, Computing, and Mathematics, Oxford Brookes University, Oxford, UK.
	Topi-04 - Session 2 Tuesday October 24th 14:00-16:00 WEDST Virtual	Session 2: “AI-Enabled IoT Resource Management.” Moderator: Flavio Cirillo , NEC Labs, Heidelberg, Germany <i>Talk 1 (Presentation 1473): “AI and ML used in aerOS.”, Carlos E. Palau Salvador</i> , Universitat Politècnica de València, Valencia, Spain <i>Talk 2 (Presentation 1520): “City Digital Twins for Climate Resilience.”, Tobias Jacobs</i> , NEC Labs Europe GmbH, Heidelberg, Germany. <i>Talk 3 (Presentation 1540): “ML Improvements to Large-Scale Data Acquisition in the Urban Domain.”, Celia Garrido Hidalgo</i> , University of Castilla-La Mancha, Ciudad Real, Spain.
	Topi-04 - Session 3 Wednesday October 25th 14:00-16:00 WEDST Virtual	Session 3: “AI-Driven Security in IoT.” Moderator: João Paulo Barraca , Universidade de Aveiro, Aveiro, Portugal <i>Talk 1: “TBD”, Lyes Khoukh</i> , University of Caen Normandie, Caen, France. <i>Talk 2: “Protecting the Future: Shielding the IoT Landscape with AI-Powered Security.”, Pantaleone Nespoli</i> , University of Murcia, Murcia, Spain.

		<p>Talk 3: “Artificial Intelligence and Machine Learning.”, Giancarlo Sperli, Consorzio Interuniversitario per l'informatica, University of Naples Federico II, Naples, Italy.</p>
<p>Topi-04 - Session 4</p> <p>Thursday October 26th 14:00-16:00 WEDST Virtual</p>	<p>Session 4: “Explainable AI for Trustworthy IoT Applications.”</p> <p>Moderator: Flavio Cirillo, NEC Labs, Heidelberg, Germany</p> <p>Talk 1: “TBD.”, Javier Andreu-Perez, University of Essex, Colchester, UK.</p> <p>Talk 2 (Presentation 1475): “Interpreting and explaining IoT solutions.”, Srdjan Krco, Dunavnet, Novi Sad, Serbia, and Natasa Krco, Imperial College, London, UK.</p> <p>Talk 3: “TBD.”, Philippe Sayegh, Verses AI Inc., Los Angeles, California, USA.</p>	
<p>Topi-04 - Session 5</p> <p>Friday October 27th 14:00-16:00 WEDST Virtual</p>	<p>Session 5: “Predictive Maintenance in IIoT: Leveraging AI/ML for Enhanced Reliability.”</p> <p>Moderator: Mário Antunes, Universidade de Aveiro, Aveiro, Portugal</p> <p>Talk 1 (Presentation 1448): “Simulation technology for smart city: linking digital twins from the real world to predicted environment.”, Koya Mori, NTT, Tokyo, Japan.</p> <p>Talk 2 (Presentation 1451): “Energy Optimization of Distributed Video Processing System.”, Hideyuki Shimonishi, University of Osaka, Osaka, Japan.</p> <p>Talk 3: “TBD”, Gurkan Solmaz, NEC Labs Europe GmbH, Heidelberg, Germany.</p>	