

International Conference on Localization and GNSS 2025

10-12 June 2025 | Rome, Italy

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7:55:11am CEST

Jari Nurmi ▾

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Conference Agenda

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Session Overview

Date: Tuesday, 10/June/2025

9:20am - 9:40am	Opening Session Chair: Jari Nurmi , Tampere University; jari.nurmi@tuni.fi Session Chair: Luca De Nardis , Sapienza University of Rome; luca.denardis@uniroma1.it
9:40am - 10:40am	Keynote 1: Laura Ruotsalainen Session Chair: Jari Nurmi , Tampere University; jari.nurmi@tuni.fi
10:40am - 11:20am	Special Session: Authentication Session Chair: Ignacio Fernandez-Hernandez , EC; ignacio.fernandez-hernandez@ec.europa.eu Estimating the Probability of Galileo I/NAV Navigation with OSNMA: "If you can navigate, can you authenticate?" Ignacio Fernandez-Hernandez¹ , Cillian O'Driscoll ² , Jon Winkel ³ , Tom Willems ⁴ , Aleix Galan-Figueras ⁵ , Gonzalo Seco-Granados ⁶ ¹ EC, Belgium; ² CODC, Ireland; ³ WI-C, Iceland; ⁴ CGI, Belgium; ⁵ KU Leuven, Belgium; ⁶ UAB, Spain
11:20am - 12:00pm	ML-based Blind Authentication with LEO Signals of Opportunity Francesco Ardizzone , Laura Crosara, Nicola Laurenti Università degli Studi di Padova, Italy
12:00pm - 1:40pm	Coffee break Positioning in 5G/6G systems Session Chair: Jose Lopez-Salcedo , Universidad Autonoma de Barcelona; jose.salcedo@uab.es A Survey on user Positioning in mmWave MIMO System Mohd Adnan¹ , Adao Silva ¹ , Rui Dinis ² , Lukasz Krzymien ³ ¹ Instituto de Telecomunicacoes (IT) and Departamento de Eletronica, Telecomunicacoes e Informatica (DETI), University of Aveiro, 3810-193 Aveiro, Portugal; ² Instituto de Telecomunicações (IT), Faculdade de Ciências e Tecnologia, University Nova de Lisboa, 1099-085 Lisboa, Portugal; ³ Nokia Solutions and Networks, Mobile Networks, Wroclaw, Poland
	Robust and Efficient Bayesian Approach for Snapshot Radio SLAM Xi Zhang¹ , Ossi Kaltiokallio ¹ , Yu Ge ² , Henk Wymeersch ² , Mikko Valkama ¹ ¹ Unit of Electrical Engineering, Tampere University, Tampere, Finland; ² Department of Electrical Engineering, Chalmers University of Technology, Gothenburg, Sweden
	5G-DIL: Domain Incremental Learning with Similarity-Aware Sampling for Dynamic 5G Indoor Localization Nisha L. Raichur , Lucas Heublein, Christopher Mutschler, Felix Ott Fraunhofer Institute for Integrated Circuits IIS, Germany
	Positioning in 6G Networks: Can a Standalone RIS Reduce the Need for Dense Base Station Deployments? Simon Johnsson¹ , Yves Teganya ² , Payal Gupta ¹ , Sara Sandberg ² , Jaap van de Beek ¹ ¹ Luleå University of Technology, Sweden; ² Ericsson Research, Ericsson AB, Sweden
	5G Positioning for Emergency Calls via Assisted GPS on Mobile Devices Roger Carolino B. Monteiro , João Bezerra Da R. Neto, Renan Figueredo Da Silva, Janisley Oliveira De Sousa, David Alan De O. Ferreira SIDIA, Brazil
1:40pm - 3:00pm	Lunch
3:00pm - 4:00pm	Keynote 2: Andrea Giorgetti Session Chair: Luca De Nardis , Sapienza University of Rome; luca.denardis@uniroma1.it
4:00pm - 4:40pm	Coffee break
4:40pm - 5:40pm	Interference mitigation Session Chair: Jose Lopez-Salcedo , Universidad Autonoma de Barcelona; jose.salcedo@uab.es Chirp Interference Mitigation in Snapshot GNSS Receivers Using the Time-Frequency Ridge-Assisted Fractional Fourier Transform Xavier Alvarez-Molina , Gonzalo Seco-Granados, José López-Salcedo Universitat Autònoma de Barcelona (UAB), IEEC-CERES, Bellaterra, Spain
	Validation of Beamforming Techniques for Interference Mitigation in GNSS Handheld Receivers with Skydel Simulator Lucia Pallarés-Rodríguez¹ , Gonzalo Seco-Granados ^{1,2} , José A. López-Salcedo ^{1,2} ¹ Universitat Autònoma de Barcelona (UAB); ² IEEC-CERES
	Reporting Message Repetitions over Noisy Channels and Application to GNSS Ignacio Fernandez-Hernandez¹ , Carlos Martinez-Ferreira ² , Cillian O'Driscoll ³ ¹ EC, Belgium; ² ICAI/Centrale-Supelec, France; ³ CODC, Ireland
7:00pm - 9:30pm	Reception off-site

Date: Wednesday, 11/June/2025

9:20am - 10:20am	Keynote 3: Grigorios Anagnostopoulos Session Chair: Antonino Crivello , Consiglio Nazionale delle Ricerche; antonino.crivello@isti.cnr.it
10:20am - 11:20am	Special Session: LEO-PNT Session Chair: Simona Lohan , TAU; elena-simona.loan@tuni.fi 10:20am - 10:40am A Comparative Study on Ranging Accuracy of LEO-PNT Systems for Indoor Scenarios Guillem Foreman-Campins ^{1,2} , José A. López Salcedo ² , Elena Simona Lohan ¹ ¹ Tampere University, Finland; ² Universitat Autònoma de Barcelona 10:40am - 11:00am Integration of GNSS and LEO-PNT for Precise Positioning: a Simulation in Urban Enviroment Marianna Alghisi, Ludovico Biagi DICA, Politecnico di Milano, Italy 11:00am - 11:20am Statistical Acquisition of DVB-S2X Signal for Positioning in LEO-NTN Harshal More ¹ , Idir Edjekouane ² , Ernestina Cianca ¹ , Mauro De Sanctis ¹ , Jorge Queroi ² , Ottavio Picchi ³ , Francesco Menzione ³ ¹ Dept. Electronics Engineering, Torvergata University, Rome, Italy; ² SnT, University of Luxembourg, Luxembourg; ³ JRC, European Commission, Ispra, Italy 11:20am - 12:00pm Coffee break
12:00pm - 1:40pm	GNSS Algorithms Session Chair: Simona Lohan , TAU; elena-simona.loan@tuni.fi 12:00pm - 12:20pm Lie group based approach for GNSS Signal Phase modeling Esteban Morales Aguirre ^{1,2} , Samy Labsir ^{1,4} , Benoît Priot ² , Clément Gazzino ³ , Gaël Pages ² ¹ TéSA, France; ² ISAE-SUPAERO; ³ CNES; ⁴ IPSA 12:20pm - 12:40pm Optimization and Performance of Multi-Criteria Collaborative Integrity Control in Degraded GNSS Environments Victor Vince ^{1,2} , Dominique Heurquier ¹ , Alexandre Vervisch-Picois ² , Jose Manuel Rubio Herman ² ¹ Thales SIX, France; ² Telecom SudParis, Institut polytechnique de Paris, France 12:40pm - 1:00pm A Simplified Solution Separation Method for GNSS Fault Detection in Challenging Environments Yingying Jiang, Ni Zhu, Valerie Renaudin GEOLOC Laboratory, AME department, Gustave Eiffel University, France 1:00pm - 1:20pm Pseudorange-based multi-modal transport classification with raw GNSS Android data Yelyzaveta Pervysheva, Jari Nurmi, Simona Lohan Tampere University, Finland 1:20pm - 1:40pm On Optimizing Acquisition Functions for Improved Positioning Accuracy in SyDR Ha My Nguyen, Antoine Grenier, Aleksandr Ometov, Jari Nurmi Tampere University, Finland
1:40pm - 3:00pm	Lunch
3:00pm - 4:00pm	Keynote 4: Massimo Eleuteri Session Chair: Luca De Nardis , Sapienza University of Rome; luca.denardis@uniroma1.it
4:00pm - 4:40pm	Coffee break
4:40pm - 6:00pm	Machine Learning in Positioning Session Chair: Christopher Mutschler , Fraunhofer IIS; christopher.mutschler@iis.fraunhofer.de 4:40pm - 5:00pm VAE-based Feature Disentanglement for Data Augmentation and Compression in Generalized GNSS Interference Classification Lucas Heublein , Simon Kocher, Tobias Feigl, Alexander Rügamer, Christopher Mutschler, Felix Ott Fraunhofer Institute for Integrated Circuits IIS, Germany 5:00pm - 5:20pm Evaluating ML Robustness in GNSS Interference Classification, Characterization & Localization Lucas Heublein ¹ , Tobias Feigl ¹ , Thorsten Nowak ² , Alexander Rügamer ¹ , Christopher Mutschler ¹ , Felix Ott ¹ ¹ Fraunhofer Institute for Integrated Circuits IIS, Germany; ² Diehl Defence GmbH & Co. KG 5:20pm - 5:40pm Deep Neural Network-based GNSS Multipath Assisted Positioning Algorithm in Urban Environment Huiying Li ¹ , Ye Tian ² , Wenyin Dai ³ , Ao Peng ¹ ¹ School of Informatics, Xiamen University, Xiamen, China; ² Institute of Industrial Science, The University of Tokyo, Tokyo, Japan; ³ St. Michael's College, University of Toronto, Toronto, Canada 5:40pm - 6:00pm Federated Few-Shot Zone Learning for Indoor Localization Amir Fathalizadeh ¹ , Vahideh Moghtadaiee ¹ , Mina Alishahi ² ¹ Shahid Beheshti University, Iran, Islamic Republic of; ² Open Universiteit, The Netherlands
9:00pm - 11:59pm	Gala Dinner off-site

Date: Thursday, 12/June/2025

9:20am - 10:20am	Keynote 5: Marco Neri Session Chair: Paolo Barsocchi , CNR; paolo.barsocchi@isti.cnr.it
10:20am - 11:20am	Testing and Evaluation Session Chair: Aleksandr Ometov , Tampere University; aleksandr.ometov@tuni.fi 10:20am - 10:40am In-Lab Receiver Testing Based on Live Captured RFI Events for DFMC GBAS Development Nadezda Sokolova, Aiden Morrison, Adrian Winter SINTEF, Norway 10:40am - 11:00am

	A Modular Long-Range UWB Testbed with SubGHz Backbone for Multi-Drone Localization Algorithms Pierpaolo Loret^{1,2}, Massimiliano DE Luca³, Andrea Crescenzi⁴, Daniele Carnevale⁴, Lorenzo Bracciale^{1,2}, Luca Chiaraviglio¹ ¹Dept. Electronic Engineering, University of Rome Tor Vergata; ²CNIT NAMLab; ³Institute of Marine Engineering, National Research Council; ⁴Dept. of Civil Engineering and Computer Science Engineering, University of Rome Tor Vergata
11:00am - 11:20am	Evaluation of Galileo HAS SIS and IDD Channel Impact on the User Performances Paolo Zoccarato¹, Antoine Grenier², Ciro Gioia¹, Joaquim Fortuny Guash¹, Francesco Menzione¹, Matteo Paonni¹ ¹European Commission Joint Research Centre (JRC), Italy; ²External Consultant for the European Commission Joint Research Centre (JRC), Italy
11:20am - 12:00pm	Coffee break
12:00pm - 1:40pm	Signal Processing for Localization Session Chair: Joaquín Torres-Sospedra, University of Valencia; Joaquin.Torres@uv.es 12:00pm - 12:20pm Enhancing Direction-of-Arrival estimation via sliding window and filtering of phase-differences Moises Borba Ramires^{1,2}, Fernando J. Aranda³, Joaquin Torres-Sospedra^{1,2}, Adriano Moreira^{1,2}, Filipe Meneses^{4,5} ¹CC /ZGDV Institute; ²Centro Algoritmi; ³Universidad de Extremadura; ⁴Universitat de Valencia; ⁵VALGRAI 12:20pm - 12:40pm GSVD-Based Uplink Channel Diagonalization in OTFS for Multi-User Systems Omid Abbassi Aghda^{1,2}, Oussama Ben Haj Belkacem^{1,3}, João Guerreiro^{1,2}, Nuno Souto^{1,4}, Michal Szczachor⁵, Rui Dinis^{1,2} ¹Instituto de Telecomunicações, Lisboa, Portugal; ²Universidade Nova de Lisboa, Monte da Caparica, 2829-516 Caparica, Portugal; ³Innov'Com Laboratory, Sup'Com, University of Carthage, Tunis 1054, Tunisia; ⁴ISCTE-Instituto Universitário de Lisboa, 1649-026 Lisbon, Portugal; ⁵Nokia, Wroclaw, Poland 12:40pm - 1:00pm Electromagnetic Interference from Consumer Electronics on GNSS Performance in Smartphones Mikhael Russo, Cristian Carallo, Riccardo Tommasi, Andrea Nardin Politecnico di Torino, Italy 1:00pm - 1:20pm Emergency Call Positioning via Assisted-GPS Using the LPP Protocol on Smartwatches Roger Carolino B. Monteiro, Renan F. Da Silva, João Bezerra Da R. Neto, David Alan De O. Ferreira, Maria G. Lima Damasceno, Jussif J. Abularach, Janisley Oliveira De Sousa SIDIA, Brazil 1:20pm - 1:40pm Anomaly detection and improving predictability of GNSS timing signal quality Martta-Kaisa Oikkonen, Mikko Kotilainen, Sanna Kaasalainen Finnish Geospatial Research Institute, Finland
1:40pm - 2:40pm	Lunch
2:40pm - 3:20pm	Multipath and Spoofing Session Chair: Stephan Sand, German Aerospace Center (DLR); stephan.sand@dlr.de Experimental Multipath Performance of Galileo CBOC per Environmental Context Maximilian von Arnim, Damien Vivet, Yoko Watanabe Fédération ENAC ISAE-SUPAERO ONERA, Université de Toulouse, Toulouse, France Cancellation and Monitoring of GNSS Spoofing Using Loose INS Coupling Albin Erik Westlund, Erik Axell Swedish Defence Research Agency, Sweden
3:20pm - 3:40pm	Awards, ICL-GNSS 2026, and Closing Session Chair: Jari Nurmi, Tampere University; jari.nurmi@tuni.fi
3:45pm - 6:30pm	Farewell event off-site