

Programme Overview

Sunday May 3	14:00 - 15:00	EUGIN Council Meeting						
	15:00 - 17:00	EUGIN General Assembly						
	17:00	IAIN Officers Meeting						
	16:00 - 19:00	Registration						
	16:00 - 19:00	Icebreaker Party at the Conference Site						
Monday, May 4	9:00	Opening Ceremony: Welcome Addresses & Keynote Presentations Great Hall						
	11:00 - 13:00	Plenary Session: Status of National and International Navigation Satellite Programmes Great Hall					Exhibition	
	13:00	Lunch Break						
	14:00 - 17:45	A1: Aviation Applications of GNSS Room 1	B1: Galileo Signal Structure, GPS/Galileo Interoperability Room 2	C1: GNSS Data Processing and Algorithms Room 3	D1a: GNSS/INS Integration D1b: Multipath Room 4	Panel Discussion I Great Hall		Poster Session I
	20:00	Gala Reception & Ceremony for the 50th Anniversary of the Italian Institute of Navigation						
Tuesday, May 5	8:45 - 12:30	A2: Augmentation Systems Room 1	B2: Software Receivers Room 2	C2: Land and Mobility Applications 1 Room 3	D2: From GIOVE-A to GIOVE-B and Follows Room 4	Panel Discussion II: Galileo: An Opportunity for Europe in Times of Financial Crises Great Hall	Poster Session I	
	12:30	Lunch Break					Exhibition	
	14:00 - 17:45	A3: Galileo & GPS/Galileo Ground Station & User Receivers Room 1	B3: GNSS Receiver Algorithms Room 2	C3: Real-Time Kinematics, Timing and Scientific Applications Room 3	D3a: Search and Rescue Service D3b: Certification and Authentication Aspects Room 4	Panel Discussion III: Prospective Uses of GNSS Services for Commercial and Governmental Applications Great Hall		Poster Session II
Wednesday, May 6	8:45 - 12:30	A4: Marine Applications Room 1	B4: Indoor Positioning Room 2	C4: Land and Mobility Applications 2 Room 3	D4: GNSS for Space Applications Room 4		Poster Session II	
	12:30	Lunch Break					Exhibition	
	14:00 - 17:15	A5: GNSS Integrity Room 1	B5: GNSS Receiver and Antenna Technology Room 2	C5: Surveying, Geodesy and GNSS/GIS Integration Room 3	D5: Non-GNSS Positioning Room 4			
	17:20	Closing Session: Concluding Remarks Great Hall						

Sunday Afternoon, May 3

14:00 15:00 17:00	EUGIN Council Meeting EUGIN General Assembly IAIN Officers Meeting
16:00 – 19:00	Registration
16:00 – 19:00	Icebreaker Party

Monday Morning, May 4

	Opening Ceremony: Welcome Addresses & Keynote Presentations Great Hall 9:00 – 10:30
9:00 9:05	Introduction by Roberto Somma, <i>General Conference Chair, Thales Alenia Space Italy</i> Welcome Address by: Rosa Iervolino Russo, <i>Mayor of Naples</i> Vincenzo Sciubba Caniglia, <i>President of the Italian Institute of Navigation (IIN)</i> Rein van Gooswilligen, <i>President of the European Group of Institutes of Navigation (EUGIN)</i> Gennaro Ferrara, <i>Rector of the Parthenope University of Naples</i> Raffaele Santamaria, <i>Dean of the Faculty of Sciences and Technologies, Parthenope University of Naples</i> Alessandro Giordani, <i>Advisor of the Italian Council of Ministers, National Coordinator of Galileo</i> Enrico Saggese, <i>Commissioner of the Italian Space Agency</i> Gard Ueland, <i>Chairman of Galileo Services, President of Kongsberg Seatex AS</i>
10:00	Keynote Speech: Michel Bosco, <i>European Commission Directorate-General for Energy and Transport (DG-TREN)</i>
10:30	Coffee Break
	Plenary Session: Status of National and International Navigation Satellite Programmes Great Hall 11:00 - 13:00 Organizer and Moderator: Prof. Vidal Ashkenazi, <i>Chief Executive, Nottingham Scientific Ltd., United Kingdom</i>
11:00	Introduction by Vidal Ashkenazi, <i>Chief Executive, Nottingham Scientific Ltd.</i>
11:15	Plenary Speaker I: Status and Plans for GPS , Col. David Goldstein, <i>Chief Engineer, GPS Wing, USAF</i>
11:30	Plenary Speaker II: Status and Plans for Galileo , Marco Falcone, <i>Systems and Operations Manager, Galileo Project Office, ESA</i>
11:45	Plenary Speaker III: Status and Plans for GLONASS , Kosenko Victor Yevgenyevich, <i>First Deputy General Director and General Designer of JSC Information Satellite System Co</i>
12:00	Plenary Speaker IV: Status and Plans for COMPASS , Xiaogong Hu, <i>Shanghai Astronomical Observatory, Chinese Academy of Sciences</i>
12:15	Plenary Speaker V: Status and Plans for IRNSS , Suresh Kibe, <i>Programme Director, Satellite Navigation, Indian Space Research Organisation</i>
12:30	Plenary Speaker VI: Status and Plans for QZSS , Akio Yasuda, <i>Chairman of the GPS Society of the JIN and Vice-President of the Japan GPS Council</i>
12:45	Q&A
13:00	Lunch Break

Monday Afternoon, May 4 – Technical Sessions

	Session A1: Aviation Applications of GNSS Room 1 14:00 - 17:45 Dr. Mikel Miller, <i>U.S. Air Force Research Laboratory, USA</i>	Session B1: Galileo Signal Structure, GPS/Galileo Interoperability Room 2 14:00 - 17:45 Marco Falcone, <i>European Space Agency, The Netherlands</i> Livio Marradi, <i>Thales Alenia Space S.p.A., Italy</i>	Session C1: GNSS Data Processing and Algorithms Room 3 14:00 - 17:45 Miguel Romay Merino, <i>GMV, Spain</i> Sergio Di Girolamo, <i>Thales Alenia Space S.p.A., Italy</i>	Session D1a: GNSS/INS Integration Room 4 14:00 - 15:35 Mario Musmeci, <i>Telespazio S.p.A., Italy</i> Prof. Giovanni Palmerini, <i>Università di Roma La Sapienza, Italy</i>
14:00	EGNOS Satellite Navigation Service Approval for Civil Aviation: J. Andrés, <i>Aena, Spain</i> ; P. Verschuere, <i>ESSP, France</i>	The Race to be the Partner of Choice for GPS: A. Sage, <i>Helios, United Kingdom</i>	A Deconvolution Algorithm for Estimating Jointly the Line-Of-Sight Code Delay and Carrier Phase of GNSS Signals: D. Skournetou, <i>Tampere University of Technology, Finland</i> ; A.H. Sayed, <i>University of California, Los Angeles, USA</i> ; E.S. Lohan, <i>Tampere University of Technology, Finland</i>	Ultra Tightly Coupled GNSS/INS Navigation and Requirements on Future Deeply Coupled Systems: T. Loeffler, J. Metzger, <i>Diehl BGT Defence GmbH & Co. KG, Germany</i>
14:25	Accelerating EGNOS Adoption in the Aviation Sector in Europe: L. Chocano, J. Alvarez, J. Murcia, <i>INECO, Spain</i> ; P. Haro, <i>Aena, Spain</i>	Analysis and Performance of Tracking Schemes for Galileo CBOC Signal: A. Jovanovic, C. Botteron, <i>Ecole Polytechnique Federal de Lausanne, Switzerland</i> ; P.-A. Farine, <i>University of Neuchatel, Switzerland</i>	A Precise Point Positioning Ambiguity Resolution Method with Narrow-Lane Ambiguity Fractional Bias Eliminated: Y. Gao, <i>University of Calgary, Canada</i>	Performance Evaluation of Different Optimal Smoothers for Land Vehicle Surveying in GPS/INS Systems: H. Liu, S. Nassar, N. El-Sheimy, <i>University of Calgary, Canada</i>
14:50	An EGNOS Based Navigation System for Highly Reliable Aircraft Automatic Landing: E. De Lellis, F. Corrado, U. Ciniglio, P. Canzolino, L. Garbarino, <i>CIRA, Italy</i> ; V. Nastro, S. Gaglione, <i>Parthenope University of Naples, Italy</i>	MBOC Performance in Unambiguous Acquisition: M. Farzan Samad, E.S. Lohan, <i>Tampere University of Technology, Finland</i>	The Minimal Detectable Bias for GNSS Observations with a Single Receiver Setup and a Geometry-Free Model: P. de Bakker, H. van der Mare, <i>Delft University of Technology, The Netherlands</i> ; P. Teunissen, <i>Delft University of Technology, The Netherlands & Curtin University of Technology, Australia</i>	Pseudo-GPS in INS/GPS Loosely-Coupled Integration Approach: I. Klein, S. Filin, T. Toledo, <i>Technion Israel Institute of Technology, Israel</i>
15:15	EGNOS LPV Approaches with Integrated Avionics: P. Haro, <i>Aena, Spain</i> ; P. Lázaro, J.J. Pelegri, <i>Air Nostrum, Spain</i> ; O. Bleeker, D. Hagan, <i>Rockwell Collins, United Kingdom</i> ; C. Hernandez, <i>Aena, Spain</i> ; V. Alvarez, <i>Pildo Labs, Spain</i> ; R. Perago, <i>ENAV, Italy</i>	Analysis of the Effects on the Position Computation in the Case of the Integration of Different Navigation Constellations: F. Rodriguez, G. Plaia, <i>Telespazio S.p.A., Italy</i>	Positioning Techniques for Fewer than Four GPS Satellites: Yong Khing Tan, <i>University of New South Wales, Australia</i> ; C. Scott, <i>Seeker Wireless Pty Limited, Australia</i> ; A. Dempster, <i>University of New South Wales, Australia</i>	The Applicability Analysis of LC and TC Low Cost MEMS IMU/GPS POS Systems for Land Based MMS: Y.-W. Huang, K.-W. Chiang, <i>National Cheng Kung University, Taiwan</i>
				Alternate Pseudo-Measurements and INS as a Solution during GPS Outages: I. Klein, S. Filin, T. Toledo, <i>Technion Israel Institute of Technology, Israel</i>
15:35	Coffee Break			
16:05	Practical Issues in the Use of SBAS for Approaches to Offshore Platforms: S. Leighton, <i>Helios, United Kingdom</i>	A Novel Approach to the Performance Evaluation of an Arc tangent Discriminator for Phase Locked Loop and Application to the Carrier Tracking of the Ionospheric Scintillation: P. Crosta, <i>Thales Alenia Space S.p.A., Italy</i>	Modelling and Emulation of An Extended GDOP For Hybrid And Combined Positioning System: S. Zirari, P. Canalda, F. Spies, <i>University of Franche-Comte, France</i>	Session D1b: Multipath 16:05 – 17:45 Dr. Mauro Leonardi, <i>Tor Vergata University, Italy</i> Validation of Carrier Multipath Mitigation for BOC-GPRN Discriminator: J. Wu, A. Dempster, <i>University of New South Wales, Australia</i>
16:30	Improving Capacity and Efficiency at Airports with Closely Spaced Parallel Runways: B. Hattli, <i>The MITRE Corporation, USA</i>	Airborne Measurements of DME Interferers at the European Hotspot: A. Steingass, A. Hornbostel, H. Denks, <i>DLR, German Aerospace Center, Germany</i>	Extension of GPS Broadcast Ephemeris to Determine Satellite Velocity and Acceleration: W. Zhang, M. Ghogho, <i>University of Leeds, United Kingdom</i> ; E. Aguado, <i>Advanced Digital Institute, United Kingdom</i>	Maximum Likelihood Estimation of Multipath and Theoretical Accuracy Limits for the New Navigation Signals: N. Blanco-Delgado, F.D. Nunes, <i>Instituto de Telecomunicacoes, Instituto Superior Tecnico, Portugal</i>
16:55	Issues on APV/SBAS GNSS Approach Procedure Design Standards: J. Perez Ramos, <i>Ineco, Flight Procedure Designer, Spain</i>	Signal Structure Update of the German Galileo Test and Development Environment GATE: G. Heinrichs, <i>IFEN GmbH, Germany</i>		A Location and Movement Dependent GNSS Multipath Error Model for Pedestrian Applications: A. Lehner, A. Steingass, F. Schubert, <i>DLR, German Aerospace Center, Germany</i>
17:20	Verification of GNSS Applications at Italian Regional Airports: R. Perago, <i>ENAV, Italy</i>	End to End Simulator Experimentations Results and Future Perspectives for Galileo and Other GNSS Systems: A. Boyer, B. Amiel, F. Bauer, <i>Thales Alenia Space Toulouse, France</i> ; R. Franco, A. Ballereau, <i>ESA, France</i>	Fixing of Cycle Slips in Dual-Frequency GPS Phase Observables Using Wavelet Analysis: A. Rastbood, B. Voosoghi, <i>K.N. Toosi University, Iran</i>	Characterization of GPS Multipath for Car Vehicles Travelling Urban Environments: O. Le Marchand, <i>Renault, France</i> ; P. Bonnifait, <i>Heudiasyc UMR 6599, University of Technology of Compiègne, France</i> ; D. Bétaille, <i>Laboratoire Central des Ponts et Chaussées, France</i> ; J. Ibañez-Guzmán, <i>Renault, France</i> ; F. Peyret, <i>Laboratoire Central des Ponts et Chaussées, France</i>
	Alternate	Alternate	Alternate	
	A Summary of Company Experiences on GNSS Introduction in Civil Aviation: S. Lagrasta, M. Manca, E. Episcopo, M. Rossi, F. Malvolti, <i>Telespazio S.p.A., Italy</i>	Galileo Full Operational Capability: S. Martin, <i>Logica, United Kingdom</i> ; C. Overbeek, <i>Logica, The Netherlands</i>	Function-Based Ionosphere Tomographic Modeling using GPS Networks Data over Iran: M.R. Ghaffari, M.M. Hossainali, <i>K.N. Toosi University of Technology, Iran</i>	
	The Future of GNSS Onboard Commercial Aircraft: J.-F. Jehl, <i>Thales Avionics, France</i>			
20:00	Gala Reception & Ceremony for the 50th Anniversary of the Italian Institute of Navigation			

Monday Afternoon, May 4 – Panel Discussion I

	Panel Discussion I: Great Hall 14:00 - 15:30 Moderator: tbd
14:00 14:15 14:45	Panelists: tbd An Overview on the International Committee on GNSS (ICG) Activities: Mario Caporale, <i>ASI, Italian Space Agency, Italy</i> U.S. Space-based PNT Policy and International Cooperation, Alice Wang, <i>Office of Space and Advanced Technology, USA</i> A Short History of Navigation Technologies: from Ulysses to GNSS's, Marco Lisi, <i>ESA/Estec</i>

Monday Afternoon, May 4 / Tuesday Morning, May 5 – Poster Session I

	Poster Session I: Monday, May 4, 14:00 - 17:45 Tuesday, May 5, 8:45 - 12:30
	<p>A New Fast Initial Alignment for the Helicopter: Y. Yoo, <i>Seoul National University, Korea</i>; K.J. Kim, <i>Doosan Infracore Co., Ltd, Korea</i>; C.G. Park, <i>Seoul National University, Korea</i></p> <p>A Stochastic Sigma Model For Glonass Satellite Pseudorange: S. Gaglione, A. Angrisano, U. Robustelli, M. Vultaggio, <i>University of Naples Parthenope, Italy</i></p> <p>An Assessment Method for eLoran Performance Using the Legacy Loran Signal: C.-B. Lee, S.-H. Yang, Y.-K. Lee, <i>Korea Research Institute of Standards and Science, Korea</i>; S.-H. Suh, <i>Maritime&Ocean Engineering Research Institute, Korea</i>; M.Y. Shin, S.J. Lee, <i>Chungnam National University, Korea</i></p> <p>Concept for Interference Detection and Analysis on Navigation Satellites: S. Erker, S. Thoehlert, M. Meurer, <i>DLR, German Aerospace Center, Germany</i></p> <p>Concept Operational of Implementation NPA GNSS in Polish Airfield: A. Fellner, <i>Silesian University of Technology, Poland</i>; J. Sulkowski, <i>Air Force Institute of Technology, Poland</i>; P. Trominski, <i>GNSS Consortium, Poland</i></p> <p>Construction of the Interactive Navigational Structure on the Basis of Radar Display: K. Czaplowski, M. Waz, <i>Polish Naval Academy, Poland</i></p> <p>Design and Prototype of Heading Reference System: P. Kaniewski, J. Kazubek, <i>Military University of Technology, Poland</i></p> <p>e-Navigation - Case Studies of Potential Applications: A. Grant, N. Ward, <i>General Lighthouse Authorities, United Kingdom</i></p> <p>Friend Identification and Localization Method based on Mesh Network of IR-UWB: S.Y. Cho, <i>ETRI, Korea</i></p> <p>Galileo Signal Design: State of Art: U. Robustelli, S. Gaglione, R. Santamaria, M. Vultaggio, <i>University of Naples Parthenope, Italy</i></p> <p>GNSS as a Source of Information about the Real Position of an Aircraft and the Use thereof in Studies Concerning the Accuracy of Radars and ADS-B: M. Grzegorzewski, <i>Air Force Academy, Poland</i>; S. Oszczak, <i>University of Warmia and Mazury in Olsztyn, Poland</i>; J. Cwiklak, <i>Air Force Academy, Poland</i>; A. Cieccko, <i>University of Warmia and Mazury in Olsztyn, Poland</i>; M. Brzozowski, <i>Military Institute of Armament Technology in Zielonka, Poland</i></p> <p>Group Delay and Carrier Phase Bias Assessment and Performances Impacts on GALILEO Tus Receiver: M. Revol, H. Guichon, <i>Thales Aerospace, France</i>; J. De Mateo, <i>ESA/Estec, The Netherlands</i></p> <p>Heuristic Search Techniques to Improve Multi-Constellation RAIM Performances: R. Ronchini, <i>Telespazio S.p.A., Italy</i></p> <p>Integrity Zone Computation Using Interval Analysis: V. Drevelle, <i>Université de Technologie de Compiègne, France</i>; P. Bonnifait, <i>Heudiasyc UMR 6599, University of Technology of Compiègne</i></p> <p>Lunar Sun-Synchronous Navigation with Automatic Sun tracking System: L. Ansalone, <i>School of Aerospace Eng., Sapienza University of Rome, Italy</i>; F. Curti, <i>Sapienza University of Rome, Italy</i>; M. Graziano, <i>GMV, Spain</i></p> <p>Mathematical Model of The Shortest Path in a MEO-Walker-GEO Combined Constellation: T. Han, <i>National Time Service Center, China</i></p> <p>Performance Analysis of Software RSIM for Maritime DGPS: K.-Y. Seo, S.-H. Park, W.-S. Jang, S.-H. Suh, <i>Korea Ocean Research & Development Institute, Korea</i></p> <p>Possibility Analysis of Land and Sea Area Identification using GPS Reflected Signal: D. Manandhar, K. Chino, D. Shin, <i>The University of Tokyo, Japan</i>; R. Shibasaki, <i>Center for Spatial Information Science, The University of Tokyo, Japan</i></p> <p>Precise Matching of Radar Display with the Nautical Chart: M. Waz, <i>Polish Naval Academy, Poland</i></p> <p>Spaceborne Orbital Payload Study and L2c Antenna Design for Precise Geosynchronous Orbit/Time Determination: C. Vegni, <i>Thales Alenia Space, Italy</i>; F. Bilotti, <i>University Roma Tre, Italy</i></p> <p>SWAN Sistemi Software per Applicazioni di Navigazione: the Base Model, a Fully Configurable Platform: A. Albanese, P. Crosta, L. Foglia, M. Libertone, <i>Thales Alenia Space, Italy</i>; Francesco Longo, <i>ASI, Italy</i></p> <p>TAPAS - Time and Position Assisted Security Using GNSS: W. Roberts, <i>NSL, United Kingdom</i>; M. Hutchinson, <i>Nottingham Scientific Ltd, United Kingdom</i></p> <p>Tavelling Wave Tube Amplifier (TWTA): L- and C-band TWTAs for Navigation Signal Amplification in the Space Segment: P. Ehret, E. Bosch, <i>Thales Electron Devices, Germany</i></p> <p>The Galileo Test Range (GTR): Status and Evolution Perspectives for Next Development Phase: P. De Simone, R. Nicolè, G. Plaia, L. Ciccotti, <i>Telespazio S.p.A., Italy</i></p> <p>The Test Results on Ranging Codes for China Area Positioning System: W. Xue, <i>National Time Service Center, Chinese Academy of Sciences, China</i></p> <p>Wind Farms Impact on Radar Systems: M. Greco, F. Gini, <i>University of Pisa, Italy</i>; A. Farina, <i>SELEX-SI, Italy</i></p> <p>Zero, Single and Double Difference Analysis of GPS, EGNOS and GIOVE-A/B Pseudorange and Carrier Phase Measurements: P. de Bakker, C. Tiberius, H. van der Marel, <i>Delft University of Technology, The Netherlands</i></p>

Tuesday Morning, May 5 – Technical Sessions

	Session A2: Augmentation Systems 8:45 – 12:30 Giorgio Solari, <i>European Space Agency, France</i> Santiago Soley, <i>Pildo Labs, Spain</i>	Session B2: Software Receivers 8:45 – 12:30 Prof. Letizia Lo Presti, <i>Politecnico di Torino, Italy</i> Simonetta Facioni, <i>Thales Alenia Space S.p.A., Italy</i>	Session C2: Land and Mobility Applications 1 8:45 – 12:30 Harri Koskinen, <i>VTT, Finland</i> Peter Grognaard, <i>Septentrio, Belgium</i>	Session D2: From GIOVE-A to GIOVE-B and Follows 8:45 – 12:30 Francesco Martinino, <i>Thales Alenia Space S.p.A., Italy</i> Rafael Lucas, <i>European Space Agency, The Netherlands</i>
8:45	Design and Test Activities for a Ground Pseudolite Prototype, Aiming at GNSS Augmentation for Aircraft Navigation: A. Loiero, M. Rossi, G. Plai, R. Ronchini, S. Lagrasta, <i>Telespazio S.p.A., Italy</i> ; A. Di Salvo, <i>ENAV, Italy</i>	Comparison of Traditional and Kalman Filter Based Tracking Architectures: C. O'Driscoll, G. Lachapelle, <i>University of Calgary, Canada</i>	Improved Vehicle Positioning in Urban Environment through Integration of GPS and Low-Cost Inertial Sensors: P. Davidson, J. Hautamaki, J. Collin, J. Takala, <i>Tampere University of Technology, Finland</i>	Giove-B Satellite & Payload Overview: M. Malik, G. Gatti, V. Alpe, <i>European Space Agency, The Netherlands</i> ; M. Johansson, <i>European Space Agency/ESTEC, The Netherlands</i> ; R. Kieffer, <i>EADS Astrium GmbH, Germany</i> ; G. Robertson, <i>EADS Astrium, United Kingdom</i>
9:10	Evaluation of Positioning Performance by the Aid of MSAS: A. Yasuda, <i>Tokyo University of Marine Science and Technology, Japan</i>	An Acquisition Strategy Suite for Software GNSS Receivers: M. Fantino, <i>Istituto Superiore Mario Boella, Italy</i> ; A. Molino, M. Nicola, <i>Politecnico di Torino, Italy</i>	The Development of a Map Embedded INS/GPS Integration Algorithm for Robust Land Vehicular Navigation in GPS Denied Environments: L.C. Cheng, K.-W. Chiang, <i>National Cheng Kung University, Taiwan</i>	Passive Hydrogen Maser PHM : the Heart of the Galileo Navigation Payload: A. Ostillo, P. Waller, A. Resti, D. Hannes, M. Johansson, <i>European Space Agency/ESTEC, The Netherlands</i>
9:35	EGNOS Evolutions: the Multi-Constellation Horizon MRS: P. Durba, E. Armengou, <i>Indra Espacio, Spain</i> ; M. Tossaint, <i>European Space Agency, The Netherlands</i>	N-Genie GNSS Receiver: Benefits of Software Radio in Navigation: M. Fantino, <i>Istituto Superiore Mario Boella, Italy</i> ; A. Molino, M. Nicola, <i>Politecnico di Torino, Italy</i>	Vehicle Positioning in Urban Areas Using Photogrammetry and Digital Maps: R. Barzaghi, D. Carrion, N. Cazzaniga, <i>Politecnico di Milano, Italy</i> ; G. Forlani, <i>Università di Parma, Italy</i>	One Year in Orbit - GIOVE-B Signal Quality Assessment from Launch to Now: M. Soellner, W. Kogler, C. Kurzhals, <i>EADS, Astrium, Germany</i> ; S. Thoehlert, S. Erker, M. Meurer, <i>DLR, German Aerospace Center, Germany</i>
10:00	AENA GBAS CAT I Implementation at Malaga Airport: Towards an Operational GNSS Landing System: P. Callejo, A. Alvarez, J. De Blas, <i>Aena, Spain</i>	Development of a Flexible Real-Time GNSS Software Receiver: G. Artaud, L. Ries, <i>CNES, France</i> ; M. Monnerat, <i>Thales Alenia Space, France</i> ; H. Al-Bitar, C. Ouzeau, <i>Silicom, France</i> ; F. Legrand, <i>M3Systems, France</i> ; M. Weyer, <i>SMP (Elta), France</i>	GeosatTAC Project: C. Panizzi, <i>Italian Army Geographical Institute, Italy</i>	E-OSPF Experimentation Results in the Frame of the GIOVE-M Core Infrastructure: I. Hidalgo, G. Tobias, A. Mozo, D. Rodriguez, R. Piriz, <i>GMV Aerospace and Defence S.A., Spain</i>
10:20	Coffee Break			
10:50	GBAS RF Interference Detection Threshold Determination at Palermo Airport: A. Konovaltsev, M. Sgammini, <i>DLR, German Aerospace Center, Germany</i> ; U. Kaelberer, <i>Thales Air Traffic Management, Germany</i> ; M. Meurer, <i>DLR, German Aerospace Center, Germany</i>	A New Generation of GNSS Receiver: The Italian SWAN Project: G. Dore, M. Calamia, <i>Università di Firenze, Italy</i> ; F. Longo, <i>ASI, Italy</i> ; L. Foglia, <i>Thales Alenia Space S.p.A., Italy</i> ; P. Mulassano, <i>Istituto Superiore Mario Boella, Italy</i>	GNSS for ITSS: Recent Efforts at the University of Nottingham: X. Meng, C. Hill, T. Moore, L. Yang, J. Aponte, W. Tang, <i>The University of Nottingham, United Kingdom</i>	Detailed Analysis on Giove-B User Equivalent Range Error UERE: M. Eleuteri, D. Cretoni, M. Gotta, <i>Thales Alenia Space S.p.A., Italy</i>
11:15	Performance Assessment of the Time Difference between EGNOS-Network-Time and UTC: N. Suard, J. Delporte, <i>CNES, France</i> ; P. Uhrich, <i>LNE-SYRTE Observatoire de Paris, France</i>	Comparison Between Hardware and Software Receiver for L2C Modernized GPS SIS, in the Framework of the SWAN Project: P. Giordano, P. Crosta, <i>Thales Alenia Space S.p.A., Italy</i> ; F. Longo, <i>ASI, Italy</i>	GNSS Machine Control with RTCM Corrections from Permanent Networks: G. Fastellini, F. Radicioni, A. Stoppini, <i>University of Perugia, Italy</i>	GIOVE Navigation Message Validation Through Key Performance Indicators: G. Galluzzo, <i>European Space Agency/ESTEC, The Netherlands</i> ; S. Binda, F. Gonzalez, <i>ESA, The Netherlands</i> ; A. Hedqvist, R. Swinden, <i>VEGA, The Netherlands</i>
11:40	Multi-Constellation System as Augmentation to GPS Performance in Difficult Environment or Critical Applications: A. Angrisano, S. Gaglione, A. Pacifico, M. Vultaggio, <i>University of Naples Parthenope, Italy</i>	SAT-SURF and SAT-SURFER: Novel Hardware and Software Platform for Research and Education on Satellite Navigation: F. Dominici, P. Mulassano, <i>Istituto Superiore Mario Boella, Italy</i> ; D. Margaria, <i>Politecnico di Torino, Italy</i> ; K. Charqane, <i>Istituto Superiore Mario Boella, Italy</i>	Meeting the Requirements of the e-112 European Directive for In-Car Emergency Call Using an Integrated Navigation/Communication System: P. Mulassano, F. Dominici, <i>Istituto Superiore Mario Boella, Italy</i> ; G. Spinelli, F. Di Corpo, <i>Telecom Italia, Italy</i> ; S. Bozzo, <i>Magneti Marelli S.p.A., Italy</i>	Results of GIOVE Data Processing to Allow Evaluation of Principal System Performance Drivers: M. Kirchner, R. Schmidt, J. Vilzmann, <i>EADS Astrium GmbH, Germany</i>
12:05		Real-Time GNSS Software Receiver: Challenges, Status, and Perspectives: M. Baracchi-Frei, <i>University of Neuchatel, Switzerland</i> ; G. Waelchli, <i>EPFL, Switzerland</i>	Use of the GNSS for Trains Management Systems: G. Di Mambro, <i>Italcertifer (Gruppo FS), Italy</i>	Development of a MBOC Reference Receiver: Testing the Binary-Offset-Carrier BOC Modulations Transmitted by the Second GIOVE Spacecraft, GIOVE-B: G. Franzoni, L. Scaciga, L. Marradi, <i>Thales Alenia Space S.p.A., Italy</i> ; S. Binda, <i>ESA, The Netherlands</i>
		Alternate	Alternate	Alternate
		Implementation of a Complete SDR Receiver Applied to the GNSS: S. Barbera, <i>University of Rome Tor Vergata, Italy</i>	Navigation Applications of Vehicles Mobility: G. Varacalli, M. Caporale, <i>Italian Space Agency, Italy</i> ; G. Gargiulo, L. Mazzucchelli, <i>NEXT Ingegneria dei Sistemi S.p.A., Italy</i>	Giove-B Navigation Message: A Detailed Analysis: M. Eleuteri, D. Cretoni, M. Gotta, <i>Thales Alenia Space S.p.A., Italy</i>
			GRACE – A Regional Initiative in the East Midlands in the UK to Support the Development of Downstream GNSS Based Applications and Services: P. Bhatia, <i>University of Nottingham, United Kingdom</i>	
12:30	Lunch Break			

Tuesday Morning, May 5 – Panel Discussion II

	Panel Discussion II: Galileo: An Opportunity for Europe in Times of Financial Crises Great Hall 11:00 - 12:30 Moderator: Pascal Campagne, <i>FDC, France</i>			
11:00	Panelists: Hristo Stoykov, <i>European Investment Bank, Luxembourg</i> Peter Grognaard, <i>Septentrio, Belgium</i> Mario Musmeci, <i>Telespazio S.p.A., Italy</i> Fabio Sbianchi, <i>Octo Telematica, Italy</i> Luigi Bragagnini, <i>Torino Wireless, Italy</i> Luigi Campitelli, <i>European Business & Innovation Centre Network, Belgium</i> Mario Caporale, <i>ASI-Italian Space Agency, Italy</i>			

Tuesday Afternoon, May 5 – Technical Session

	Session A3: Galileo & GPS/Galileo Ground Station & User Receivers 14:00 - 17:45 Martin Hollreiser, <i>European Space Agency, The Netherlands</i> Franco Gottifredi, <i>Thales Alenia Space S.p.A., Italy</i>	Session B3: GNSS Receiver Algorithms 14:00 - 17:45 Prof. Guenter Hein, <i>University FAF Munich, Germany</i> Dr. Paolo Mulassano, <i>Istituto Superiore Mario Boella, Italy</i>	Session C3: Real-Time Kinematics, Timing and Scientific Applications 14:00 - 17:45 Monica Gotta, <i>Thales Alenia Space S.p.A., Italy</i> Prof. Giovanni Pugliano, <i>Parthenope University of Naples, Italy</i>	Session D3a: Search and Rescue Service 14:00 - 15:35 Igor Stojkovic, <i>European Space Agency, The Netherlands</i> Mauro Marinelli, <i>Thales Alenia Space S.p.A., Italy</i>
14:00	Development and Verification of GALILEO Ground Mission Segment: B. Schlarmann, A. Quiles, M. Hollreiser, <i>European Space Agency, The Netherlands</i> ; A. Ballereau, <i>European Space Agency, France</i> ; E. Robert, J.-L. Durand, <i>Thales Alenia Space, France</i>	Deterministic Particle Filter for non-aided GPS Signal Processing: A. Ziadi, <i>DSi, France</i> ; G. Salut, <i>CNRS, France</i>	Continental Centimetric Real-time Precise Point Positioning with Ambiguity Resolution: J. Geng, X. Meng, N. Teferle, A. Dodson, <i>The University of Nottingham, United Kingdom</i>	SAR/GALILEO Services and European MEOLUT Performance Results with DASS POC: J. Perlas, <i>Indra Espacio S.A., Spain</i> ; I. Stojkovic, <i>European Space Agency, The Netherlands</i> ; X. Maufroid, L. Ruiz, <i>DG-TREN Galileo Unit, Belgium</i>
14:25	Galileo Receiver Chain - The nonPRS Ground Reference Receiver Acquisition Performance: D. Rovelli, P. Crosta, G. Pinelli, G. Franzoni, <i>Thales Alenia Space S.p.A., Italy</i>	A Low Complexity Cross-Correlation Interference Mitigation Technique for GNSS: R. Kazazoglu, E. Cetin, I. Kale, <i>University of Westminster, United Kingdom</i>	Real-Time Implementation of L1 RTK System Based on Position-Domain Hatch Filter: H.S. Kim, H.K. Lee, <i>Korea Aerospace University, Korea</i>	SAR/Galileo Return Link Service – System and Operations Perspective: X. Maufroid, <i>DG-TREN Galileo Unit, Belgium</i> ; I. Stojkovic, <i>European Space Agency, The Netherlands</i>
14:50	Galileo Test Range: Performance Test Results: F. Gottifredi, F. Martinino, Q. Morante, E. Varriale, M. Eleuteri, <i>Thales Alenia Space S.p.A., Italy</i>	Combined L1/L5 Kalman Filter-Based Tracking for Weak Signal Environments: D. Megahed, C. O'Driscoll, G. Lachapelle, <i>University of Calgary, Canada</i>	The Communication Satellite Based Network RTK Solution for Road Transportation: L. Yang, C. Hill, T. Moore, X. Meng, <i>The University of Nottingham, United Kingdom</i>	The Galileo Search and Rescue Test Beacon: Final Implementation Challenges and Future Work: B. Peeters, <i>Ursa Minor, The Netherlands</i> ; I. Stojkovic, <i>European Space Agency, The Netherlands</i> ; N. Lan, <i>Ursa Minor, The Netherlands</i>
15:15	Galileo Test User Receiver Status and Key Performance Results: A. van den Berg, T. Willems, W. de Wilde, <i>Septentrio Satellite Navigation, Belgium</i> ; R. Morgan-Owen, J. de Mateo, <i>ESA, The Netherlands</i>	Search Engine Trade-Offs in FPGA-based GNSS Receiver Designs: S. Malik, N. Shivaramaiah, O. Diessel, A. Dempster, <i>University of New South Wales, Australia</i>	The Use of Precise Point Positioning Technique to Investigate the Impact of Plum rains in Taiwan Region: W.C. Peng, K.W. Chiang, <i>National Cheng Kung University, Taiwan</i>	A Hybrid Parameter Estimation Method of Doppler Frequencies, Time Delays and Bit Periods in the Galileo System Search and Rescue Service: M. Lin, J. Wang, <i>China Academy of Space Technology, China</i> ; I. Stojkovic, <i>European Space Agency, The Netherlands</i> ; J. Li, <i>China Academy of Space Technology, China</i>
				Alternate Validation Test Bench for GALILEO Search and Rescue Services: I. Stojkovic, L. Arguello, M. Falcone, <i>European Space Agency, The Netherlands</i>
				A SAR/Galileo Alerting-beacons Detection and Parameter Preliminary Estimation Method Using Bit-frame Synchronization Pattern: N. Hu, <i>Beijing Institute of Technology, China</i>
15:35	Coffee Break			
16:05	Multi-Receiver GIOVE-M Sensor Stations: P. Durba, D. Gala, <i>Indra Espacio, Spain</i> ; M. Crisci, S. Binda, <i>ESA, The Netherlands</i>	Triple and Quadruple Frequency Carrier-Smoothed Code Processing Methods: F. Beck, O. Glaser, <i>Thales ATM GmbH, Germany</i>	SynchroNet: High Performance Network Synchronization System: F. Gottifredi, E. Varriale, M. Gotta, <i>Thales Alenia Space S.p.A., Italy</i>	Session D3b: Certification and Authentication Aspects 16:05 – 17:45 Filippo Tomasello, <i>EASA, Italy</i> Frank Zimmermann, <i>VEGA Deutschland GmbH & Co.KG, Germany</i>
				GNSS User Authentication Schemes for Location – based Selective Broadcasting: N. Regina, M. Zanzi, <i>University of Bologna, Italy</i>
16:30		Multirate Signal Processing: a Solution for Wideband GNSS Signal Recovery: D. Borio, S. Fazio, G. Lachapelle, <i>University of Calgary, Canada</i>	Giove-B PHM On-Board Clock Characterization Through Carrier Phase Measurements Processing: D. Cretoni, M. Eleuteri, M. Gotta, <i>Thales Alenia Space S.p.A., Italy</i>	Validating PEGASUS in Support of EGNOS Certification: N. Caccioppoli, A. Chirita, D. Duchet, <i>Eurocontrol Experimental Centre, France</i>
16:55	NovAtel's GIOVE Monitoring Receiver: N. Gerein, M. Olynik, <i>NovAtel Inc., Canada</i>	Constant-Envelope Signal-in-Space Design for GNSSs in the C-band: F. Zanier, A. Emmanuele, G. Boccolini, M. Luise, <i>University of Pisa, Italy</i>	ATV GPSA Overview: A. Patrizi, L. Marradi, L. Scaciga, A. Zin, <i>Thales Alenia Space S.p.A., Italy</i>	Galileo Application Certification – A Transmodal Approach: M. Endrich, A. Jasch, S. Kocks, T. Feuerle, P. Hecker, <i>Technische Universität Braunschweig, Germany</i>
17:20	A Hybrid Tracking Loop Architecture for Galileo E5 Signal: N. Shivaramaiah, A. Dempster, C. Rizos, <i>University of New South Wales, Australia</i>	The Effect of Clock Jitter on the Performance of Continuous-Time Delta-Sigma ADC for GNSS Signals: A. Ucar, E. Cetin, I. Kale, <i>University of Westminster, United Kingdom</i>		Secure Localisation with Location Assurance Provider: C. Harpes, B. Jager, <i>Itrust consulting s.à r.l., Luxembourg</i> ; B. Gent, <i>Nokia Siemens Networks, Luxembourg</i>
	Alternate	Alternate		Alternate
	Galileo Test Range Pseudolites: a Performance Augmentation System: F. Gottifredi, Q. Morante, M. Eleuteri, E. Varriale, <i>Thales Alenia Space S.p.A., Italy</i>	Sensitivity of Code Tracking Methods to PRN Differences: R. Eric Pheils, <i>Stanford University, USA</i>		Recommendations on Certifying (Approving) Future Pan-European Satellite Systems for the Use of Air Navigation Services as Applied to Iris: P D Nisner, <i>NATS, United Kingdom</i> ; F Ongaro, <i>ESA, Italy</i> ; F Tomasello, <i>EASA, Italy</i> ; M. Chiappone, <i>ESA, Italy</i> ; J Korna, <i>NATS, United Kingdom</i>

14:00 – 16:00	European Journal of Navigation Meeting
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Tuesday Afternoon, May 5 – Panel Discussion III

	Panel Discussion III : Prospective Uses of GNSS Services for Commercial and Governmental Applications Great Hall 16:00 - 17:30 Moderator: Philippe Hamet, <i>European Commission Directorate-General for Energy and Transport (DG-TREN)</i>
16:00	Panelists: Francisco Salabert, <i>Eurocontrol, Belgium</i> Leonardo Argiri, <i>Defense Space Agency, Belgium</i> Mario Caporale, <i>Italian Space Agency, ASI, Italy</i> Roberto Arditi, <i>SINA, Italy</i> Ugo Celestino, <i>EC, Belgium</i> Martin Rickmann, <i>Toll Collect GmbH, Germany</i>

Tuesday Afternoon, May 5 / Wednesday Morning, May 6 – Poster Session II

	Poster Session II : Tuesday, May 5, 14:00 - 17:45 Wednesday, May 6, 8:45 – 12:30
	<p>A Three Dimensional Movement Model For Pedestrian Navigation: M. Khider, S. Kaiser, P. Robertson, <i>DLR, German Aerospace Center, Germany</i></p> <p>An Electromagnetic Bistatic Scattering Model for GNSS Sea Surfactant Monitoring: F. Nunziata, M. Migliaccio, <i>Parthenope University of Naples, Italy</i></p> <p>Ability of Iranian Permanent GPS Network (IPGN) for Determination of Precipitable Water Vapor: F. Khorrani, Z. Mousavi, <i>National Cartography Center, Iran</i>; C. Champollion, <i>Laboratoire Geosciences Montpellier, France</i>; A. Walpersdorf, <i>Laboratoire de Géophysique Interne et Tectonophysique, France</i>; Y. Djamour, <i>Geomatics College, Iran</i>; H. Nankali, F. Tavakoli, <i>National Cartography Center, Iran</i></p> <p>Accuracy and Reliability in GNSS NRTK: G. Dardanelli, M. Lo Brutto, V. Franco, <i>University of Palermo, Italy</i></p> <p>Accuracy Assessment of the Position Tracking Filter: M. Khalaf-Allah, <i>Tech. University Braunschweig, Germany</i></p> <p>Airborne Monitoring Algorithm For Ionosphere Anomaly Detection At A Regional Area: J. Joo, M. Heo, <i>Korea Aerospace Research Institute, Korea</i></p> <p>Assessing the Wireless Transmission of Network-Based RTK GPS Corrections: J. Aponte, X. Meng, T. Moore, C. Hill, L. Yang, <i>The University of Nottingham, United Kingdom</i>; M. Burbidge, <i>Leica Geosystems, United Kingdom</i></p> <p>Crustal Deformation Monitoring in Iran Insight from Permanent GPS Network: H. Nankali, <i>Associate Prof, Iran</i></p> <p>Design for GPS Reflected Signal Processing System Based on Software: D. Yang, <i>Beijing University of Aeronautics and Astronautics, China</i>; Y. Zhou, <i>BeiHang University, China</i></p> <p>Development of a Low Cost Commercial GNSS Simulator: B. Peeters, <i>Ursa Minor, The Netherlands</i></p> <p>Dilution of Precision for GNSS Interference Localisation Systems: R. Thompson, A. Dempster, <i>University of New South Wales, Australia</i></p> <p>Enhancing WLAN Localization Accuracy By Spatio-Temporal Information Fusion: H.K. Lee, H.S. Kim, J.-J. Choi, <i>Korea Aerospace University, Korea</i>; W.S. Choi, <i>Electronics and Telecommunication Research Institute, Korea</i></p> <p>Extending the Applications and Improving the Efficiency of Positioning Through the Exploitation of New GNSS Signals: L. Lau, <i>University College London, United Kingdom</i></p> <p>Geodetic Datum Transformation and Cartographic Reprojection of Satellite Images in GIS applications: A. Errico, C. Parente, P. Maglione, R. Santamaria, <i>University of Naples Parthenope, Italy</i></p> <p>Georeferentiation of the Vertexes of a Monitoring Network through Differential GPS Real-Time Kinematic: M. Caprioli, <i>Polytechnic of Bari, Italy</i></p> <p>GNSS Introduction in the Rail Sector: Results of the GRAIL Live Test Campaign on the Madrid-Barcelona High Speed ERTMS Level 1/Level 2 Signalling Line: A. Albanese, L. Foglia, <i>Thales Alenia Space, Italy</i>; M.J. Garcia, <i>U.N.E Sistemas Ferroviarios, TIFSA, Spain</i>; C. Prados, <i>Ansaldo STS España, Spain</i>; A. Urech, <i>INECO - European Projects Division, Spain</i></p> <p>GNSS Repeater Based Approach for Indoor Positioning: Current Status: A. Fluerau, N. Jardak, A. Vervisch-Picois, N. Samama, <i>Institut TELECOM, T&M SudParis, France</i></p> <p>GNSS Signal Acquisition in Presence of Sign Transitions: S. Kewen, L. Lo Presti, <i>Politecnico di Torino, Italy</i>; M. Fantino, <i>Istituto Superiore Mario Boella, Italy</i></p> <p>Heading Estimation in Low-Cost Land Navigation Applications: P. Kaniewski, <i>Military University of Technology, Poland</i></p> <p>Identifying GPS Positioning Errors in Mobile Mapping Surveys: N. Cazzaniga, <i>Politecnico di Milano, Italy</i>; G. Forlani, <i>Università di Parma, Italy</i></p> <p>IMU Low Cost Calibration Method: A. Angrisano, <i>University of Naples Parthenope, Italy</i>; E. Nocerino, <i>University of Naples Federico II, Italy</i>; S. Troisi, G. Del Core, <i>University of Naples Parthenope, Italy</i></p> <p>Indoor Localization System based on Wireless Sensor Networks: C. Monti, D. Valletta, R. Ronchini, F. Malvolti, A. Saitto, <i>Telespazio S.p.A., Italy</i></p> <p>Infomobility Centre - New Market Opportunities: M. Grzebellus, <i>NavCert GmbH, Germany</i></p> <p>Low Cost Multi Constellation Front End for GNSS Software Defined Receivers: M. Bavaro, <i>Nottingham Scientific Ltd, United Kingdom</i>; Y. Adane, <i>Ecole de Technologie Supérieure, Canada</i>; E. Goodyer, J. Gow, <i>DeMontfort University, United Kingdom</i>; M. Dumville, <i>Nottingham Scientific Ltd, United Kingdom</i></p> <p>Mobile Mapping System: Case Study of the Messina-Palermo Motorway Layout: G. Dardanelli, G. Di Mino, L. Ferrara, <i>University of Palermo, Italy</i></p> <p>New Techniques of Indoor Positioning Combining Deterministic and Estimation Methods: M. Chelly, N. Samama, <i>Institut TELECOM, T&M SudParis, France</i></p> <p>Performance Assessment Of A Juzzle-Based GNSS Simulator: C. Ouzeau, J. Korsakissok, <i>Silicom (SGSO), France</i></p> <p>Regional Ionosphere Modeling over Iran: Insight from Iranian Permanent GPS Network: H. Sahabi Rowshan, N. Abdi, H. Nankali, F. Tavakoli, <i>National Cartography Center, Iran</i></p> <p>Research on UWB Indoor Positioning Based on TDOA Technique: B. Yan, L. Xiao-chun, X. Jing-song, W. Jin, <i>National Time Service Center, The Chinese Academy of Sciences, China</i></p> <p>The Adaptive Vector Tracking Loop Design for High Dynamic Situations: K.-H. Kim, J.-H. Song, G. Jee, <i>Konkuk University, Korea</i></p>

Wednesday Morning, May 6

	Session A4: Marine Applications 8:45 – 12:30 Prof. Mario Vultaggio, <i>Parthenope University of Naples, Italy</i>	Session B4: Indoor Positioning 8:45 – 12:30 Filippo Rodriguez, <i>Telespazio S.p.A., Italy</i>	Session C4: Land and Mobility Applications 2 8:45 – 12:30 Gianluca Graglia, <i>Thales Alenia Space, Italy</i>	Session D4: GNSS for Space Applications 8:45 – 12:30 Giorgio Perrotta, <i>Italian Institute of Navigation, Italy</i> Erick Lansard, <i>Thales Alenia Space, France</i>
8:45	Live Satellite Based Requirements Evaluation for Maritime DGPS Reference Stations: S.H. Park, <i>Korea Ocean Research & Development Institute, Korea</i>	Automatic 3D Localisation System Using Propagation of Positions in a Connected Network: M. Chelly, N. Samama, <i>Institut TELECOM, T&M SudParis, France</i>	Combining UWB and GNSS Positioning to Extend Location of Emergency Personnel in Forest Fire Environments: G. Dona, G. Burden, S. Ingram, <i>Thales Research & Technology (UK) Ltd., United Kingdom</i>	GNSS Expected Performance in Earth-Moon Trajectories: G. Palmerini, M. Sabatini, <i>Università di Roma La Sapienza, Italy</i> ; G. Perrotta, <i>Istituto Italiano di Navigazione, Italy</i>
9:10	New Sailing Calculations Algorithms for GIS Navigational Systems and Receivers: A. Pallikaris, <i>Hellenic Naval Academy, Greece</i> ; L.Tsoulos, D. Paradisis, <i>National Technical University of Athens, Greece</i>	Magnetic Field Aided Indoor Navigation: W. Storms, J. Raquet, <i>Air Force Institute of Technology, USA</i>	Sit-Down and Stand-Up Awareness Algorithm for the Pedestrian Dead Reckoning: S. Shin, H.W. Kim C.G. Park, <i>Seoul National University, Korea</i>	Position and Attitude Determination of Orbiting Manipulators using GNSS: G. Palmerini, <i>Università di Roma La Sapienza, Italy</i>
9:35	New Role of GNSS in the Safety of Maritime Navigation: R. La Pira, <i>Italian Navy, Italy</i>	Comparison of Indoor Positioning Algorithms Using WLAN Fingerprints: H. Leppäkoski, S. Tikkinen, A. Perttula, J. Takala, <i>Tampere University of Technology, Finland</i>	Satellite Navigation Supporting Disabled People: the NADIA Project Demonstration Phase Assessment: R. Muscinelli, F. Neccia, G. Graglia, <i>Thales Alenia Space Italia S.p.A., Italy</i> ; G. Varacalli, <i>Agenzia Spaziale Italiana, Italy</i>	Analysis of GPS-Based Relative Navigation Schemes for Earth Observation Missions Relying on Cooperating Satellites: A. Renga, <i>University of Naples, Italy</i> ; U. Tancredi, <i>University of Naples Parthenope, Italy</i> ; M. Grassi, <i>University of Naples Federico II, Italy</i>
10:00	eLoran – the Way Forward: S. Basker, D. Last, N. Ward, <i>General Lighthouse Authorities, United Kingdom</i>	Multipath Effects on the GNSS Repeater Based Approach. Tracking Loop Discriminator Impact on Multipath Mitigation: A. Fluerasu, N. Jardak, A. Vervisch-Picois, M. Boschetti, N. Samama, <i>Institut TELECOM, T&M SudParis, France</i>	EGNOS in Support of Safe Transport of Dangerous Material: the Joint Experience of MENTORE and ENI: A. Di Fazio, <i>Telespazio, Italy</i>	Applying UKF Nonlinear State Estimation Techniques to Formation-Flying Satellite Constellations: S. Lagrasta, <i>Telespazio S.p.A., Italy</i> ; S. Battistini, <i>Telespazio S.p.A./University of Rome, Italy</i>
10:20	Coffee Break			
10:50	A Low-Cost Marine Integrated Navigation System: F. Garofalo, G. Mancini, U. Montanaro, M. Pugliese; S. Santini, <i>Federico II University of Naples, Italy</i>	Decimeter-Level Positioning Engine for an Indoor Ultra-Wideband/Laser Scanner Positioning System: F. Tappero, P. Schaer, B. Merminod, <i>Ecole Polytechnique Federale de Lausanne, Switzerland</i>	GNSS and eLoran Cooperate to the Benefit of Both: P. Mattos, <i>STMicroelectronics (R&D) Ltd, United Kingdom</i>	Attitude Determination Using Advanced Kalman filter and IMM Approach: Z. Dai, S. Knedlik, M. Zhang, <i>University of Siegen, Germany</i> ; O. Loffeld, <i>Center for Sensor Systems, Germany</i>
11:15	First Real-Time GPS/GLONASS Orbit/Clock Decimetre Level Precise Positioning Service: T. Melgard, O. Ørpen, E. Vigen, <i>Fugro Seastar AS, Norway</i> ; R. Zandbergen, J. Sanchez, L. Agrotis <i>ESOC, Germany</i>	Integration of A-GNSS and IEEE 802.15.4a Chirp Spread Spectrum for Seamless Positioning: K. Yong-Soo, <i>KONKUK University, Korea</i>	Potentials of Satellite-Based Traceability Services in Logistics: G. Liotta, M. Carlino, G. Confessore, <i>CNR ITIA, Italy</i>	Topological Design for ISL Networks in GNSS with Autonomous Navigation System: H. Shanbao, L. Chonghua, L. Zhendong, <i>China Academy of Space Technology, China</i>
11:40	GNSS Vulnerability and the Case for eLoran: P. Williams, A. Grant, M. Bransby, S. Basker, N. Ward, <i>General Lighthouse Authorities, United Kingdom</i>	Single-Frequency Carrier Navigation in a Synchronised Pseudolite Network: H. Laitinen, M. Ström, <i>Space Systems Finland</i>	Seamless Tracking Technology Using GNSS and RF-ID: K. Chino, D. Manandhar, S. Ryosuke, <i>The University of Tokyo, Japan</i>	Spaceborne Orbito Payload Study and L2c Antenna Design: C. Vegni, <i>Thales Alenia Space S.p.A., Italy</i>
12:05	Practical Experiences from the Use of the Satellite Compass: A. Felski, A. Nowak, <i>Polish Naval Academy, Poland</i>	Memory Discriminators for Non-Coherent Integration in GNSS Tracking Loops: D. Borio, N. Sokolova, G. Lachapelle, <i>University of Calgary, Canada</i>	Evaluation of a High-Sensitivity GPS Receiver for Kinematics Application in Regions with High Shading: H. Suhandri, D. Becker, A. Kleusberg, <i>University of Stuttgart, Germany</i>	NIORAIM Algorithm Applied to a GPS Constellation: Verification of RAIM Availability Improvement in Different Phases of Flight: P. Madonna, L. Sfarzo, S. Viola, <i>TRS S.p.A, Italy</i>
	Alternate Assessment of Shoal Bank Movements via Earth Observation, Related to re-Positioning Needs for Aids to Navigation: M.De Voy, A. Grant, M. Bransby, S. Basker, <i>General Lighthouse Authorities, United Kingdom</i>			
12:30	Lunch Break			

Wednesday Afternoon, May 6

	Session A5: GNSS Integrity 14:00 – 17:15 Mario Caporale, <i>Italian Space Agency, Italy</i> Carl Andren, <i>Institute of Navigation, USA</i>	Session B5: GNSS Receiver and Antenna Technology 14:00 – 17:15 Dr. Fabio Dovis, <i>Politecnico di Torino, Italy</i> Mauro Leonardi, <i>Thales Alenia Space S.p.A., Italy</i>	Session C5: Surveying, Geodesy and GNSS/GIS Integration 14:00 – 17:15 Juan De Mateo, <i>Esa/Estec, The Netherlands</i>	Session D5: Non-GNSS Positioning 14:00 – 17:15 Prof. Francisco Barcelo-Arroyo, <i>Universitat Politècnica de Catalunya, Spain</i> Jesus Carabajosa, <i>Spanish Institute of Navigation (INAVE), Spain</i>
14:00	Robust Multi-Carrier, Multi-Satellite Vector Phase Locked Loop with Wideband Ionospheric Correction and Integrated Weighted RAIM: P. Henkel, <i>Technische Universität München, Germany</i> ; G. Gao, T. Walter, <i>Stanford University, USA</i> ; C. Guenther, <i>Deutsche Luft- und Raumfahrt, Germany</i>	Key Strategies for Safety-of-Life Receiver Development: M. Cuntz, M. Heckler, L. Greda, A. Hornbostel, H. Denks, A. Dreher, G. Buchner, M. Meurer, <i>DLR, German Aerospace Center, Germany</i>	Changes of Coordinates and Velocities of Five Permanent Stations in Iran Due to Change in Antenna Model from Relative to Absolute: S. Rezaia Chaboki, <i>Khaje Nasir Toosi University of Technology, Iran</i> ; A. Masoud Abolghasem, <i>Ludwig Maximilians University of Munich, Germany</i>	Adaptive Loop Aiding for Performance Improvement in Weak Signal Environment: F. Khan, C. Rizos, A. Dempster, <i>University of New South Wales, Australia</i>
14:25	A New User Integrity Monitoring Approach for Aviation Application: H. Su, W. Ehret, <i>Thales ATM GmbH, Germany</i>	Phase Centre Determination on the Basis of Far-Field Measurements: N. Basta, A. Konovaltsev, L. Greda, <i>DLR, German Aerospace Center, Germany</i>	Analysis Results of Four Years Permanent GPS Measurements on North and North West of Iran: F. Khorrani, Z. Mousavi, F. Tavakoli, H. Nankali, <i>National Cartography Center, Iran</i> ; Y. Djamour, <i>Geomatics College, Iran</i>	A Reference Measurement Data Set for Multisensor Pedestrian Navigation with Accurate Ground Truth: M. Angermann, <i>DLR, German Aerospace Center, Germany</i> ; A. Friese, <i>University of the Federal Armed Forces, Germany</i> ; M. Khider, B. Krach, <i>DLR, German Aerospace Center, Germany</i> ; K. Krack, <i>Krack, Germany</i> ; P. Robertson
14:50	Galileo Test User Receiver Development for Safety of Life Applications: Integrity Processing Overview: C. Pecchioni, <i>Thales Alenia Space S.p.A., Italy</i> ; O. Crest, <i>Thales Avionics, France</i> ; F. Luongo, <i>Galileo Industries S.p.A., Italy</i>	Dual-Element Diversity Antenna for GPS/Galileo Receivers: M. Ur Rehman, Y. Gao, X. Chen, C. Parini, <i>Queen Mary University of London, United Kingdom</i>	Use of an Integrated System GPS-GIS to Improve Safety and Technological Solutions in Order to Control Areas Used Vehicles and Airplanes: V. Barrile, F. Ieracitano, <i>University of Reggio Calabria, Italy</i>	An Orientation Measurement Principle for Time of Arrival Radio Localisation Systems: A. Eidloth, L. Patino-Studencka, <i>Fraunhofer Institute IIS, Germany</i> ; J. Thielecke, <i>University of Erlangen, Germany</i>
15:15	Outlier-robust Bayesian Filter with Integrity Monitoring for GNSS Positioning: H. Pesonen, <i>Tampere University of Technology, Finland</i>	A Comparative Sensitivity Analysis of GPS Receivers: G. Falco, F. Dovis, <i>Politecnico di Torino, Italy</i> ; A. Defina, G. Marucco, <i>Istituto Superiore Mario Boella, Italy</i>	Study on Vertical-Degree Maintenance Technique of GNSS in Skyscraper: K. Yu Seung, C.Y. Kim, <i>Korea Maintenance Co. Ltd., Korea</i>	Road-Constrained Mobile Station Tracking in GSM Networks in the Presence of NLOS Error: M. Zhang, S. Knedlik, O. Loffeld, <i>University of Siegen, Germany</i>
15:40		Hardware-in-the-Loop Simulator for Performance and Cost Estimation of GNSS Correlator Channels: G. Kappen, H. Lucken, L. Kurz, T. Noll, <i>RWTH Aachen University, Germany</i>	Role of GPS Data Analysis in Seismic Hazard Assessment in the Frame of SISMA Project: R. Barzaghi, <i>Politecnico di Milano, Italy</i> ; M. Chersich, M. Fermi, <i>Galileian Plus S.r.L., Italy</i> ; A. Maggi, <i>Politecnico di Milano, Italy</i> ; M. Osmo, <i>Galileian Plus S.r.L., Italy</i>	Design and Implementation of Channel Estimation and Equalization of Indoor Positioning System Based on UWB: J. Xu, X. Lu, H. Wu, Y. Bian, <i>National Time Service Center, China</i>
16:05	Global/Regional Advanced Autonomous Localization system (GRAAL): E. Senant, C. Fernet, <i>Thales Alenia Space, France</i> ; D. Brocard, L. Ries, <i>CNES, France</i>	Delta-Sigma Fractional-N PLL Frequency Synthesizer Design for GNSS/DCS-1800: A. Telli, I. Kale, <i>University of Westminster, United Kingdom</i>	GeoNET: WebGIS of a GNSS Permanent Network: A. Scianna, <i>Icar-CNR, Italy</i> ; G. Dardanelli, <i>University of Palermo, Italy</i> ; B. De Cristofaro, <i>Intea S.R.L., Italy</i>	Robust Sensor Data Fusion in Local Positioning: P. Scherz, K. Pourvoyeur, S. Schuster, A. Stelzer, <i>Johannes Kepler University Linz, Austria</i> ; G. Stelzhammer, <i>Abatec Electronic AG, Austria</i>
16:30	Design and Architecture of a Performance Monitoring System for EGNOS and Galileo: J. Vilzmann, <i>EADS Astrium GmbH, Germany</i> ; F. Wokke, H. Veerman, <i>NLR, The Netherlands</i> ; A. Breitenacher, M. Kirchner, <i>EADS Astrium GmbH, Germany</i>	Dual-Band Microstrip Antenna for a Robust Navigation Receiver: E. Nova Lavado, M. Heckler, W. Elmarissi, A. Dreher, <i>DLR, German Aerospace Center, Germany</i>	Implementation and Testing of EGNOS Full-Scale Dynamic Trials Onboard of HSC (High Speed Craft): A. Pacifico, <i>University of Naples Parthenope, Italy</i> ; E. Nocerino, <i>University of Naples Federico II, Italy</i> ; A. Scamardella, M. Vultaggio, <i>University of Naples Parthenope, Italy</i>	Assessing the Security of a Navigation System: A Case Study using Enhanced Loran: S. Lo, <i>Stanford University, USA</i> ; B. Peterson, <i>Peterson Integrated Geopositioning, USA</i> ; P. Enge, <i>Stanford University, USA</i>
16:55	Evolution of Integrity concept: From Galileo to Multisystem: G. Dore, M. Calamia, <i>University of Florence, Italy</i>	Full Design Approach for a Non Real Time Galileo E5 Receiver: Y. Tawk, C. Botteron, <i>Ecole Polytechnique Federal de Lausanne, Switzerland</i>		Locata: A New Technology for High Precision Positioning: N. Politi, Y. Li, F. Khan, M. Choudhury, <i>University of New South Wales, Australia</i> ; J. Bertsch, <i>ETH Zürich, Switzerland</i> ; J.W. Cheong, A. Dempster, C. Rizos, <i>University of New South Wales, Australia</i>
	Closing Session: Concluding Remarks 17:20			
17:20	Poster Session Highlights by Rapporteurs Closing Remarks: Vincenzo Sciubba Caniglia, <i>President of the Italian Institute of Navigation (IIN)</i> Announcement of the ENG-GNSS 2010 Conference by the Spanish Delegate Official Closing of the ENC-GNSS 2009 Conference: Roberto Somma, <i>General Conference Chair, Thales Alenia Space Italy</i>			