

InsideGNSS

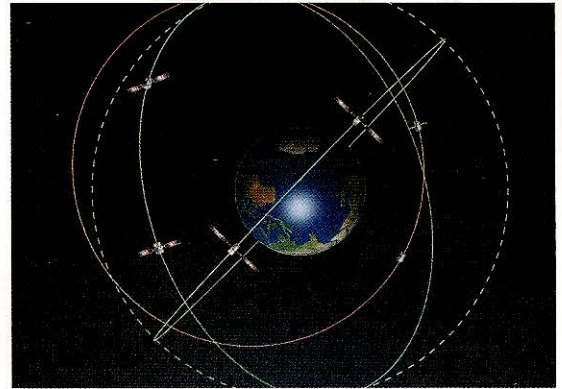
GPS | GALILEO | GLONASS | BEIDOU

FEATURE ARTICLE

40 Kingfisher

Setting Sail with
GNSS-Guided Robotics
Peter Gutierrez

Ontario's Clearpath Robotics and sister company Echostream Environmental Data Systems are creating advanced autonomous vehicles with sensors and dual-frequency GNSS and inertial technologies for academic research and real-world bathymetry.



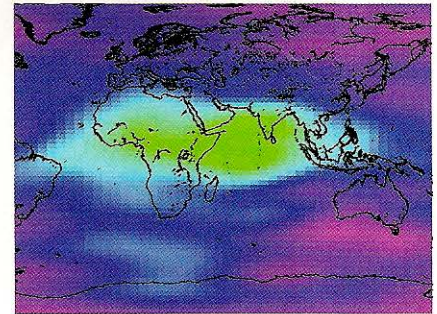
Cover illustration shows Present orbits of the fifth and sixth Galileo satellites launched together on August 22, 2014, in red, compared to their intended position, in dashed green, and the position of the four GIOV satellites launched in 2011 and 2012, in solid green. ESA illustration

TECHNICAL ARTICLES

46 SAGAIE

A GNSS Network for Investigating Ionospheric Behavior in Sub-Saharan Regions
Hugues Secretan, Sebastien Rougerie, Lionel Ries, Michel Monnerat, Jeremie Giraud, and Roland Kameni

Scintillation caused by solar-induced ionospheric activity continues to be a potential problem for GNSS signals used for navigation purposes. Understanding the potential for scintillation and its effects on GNSS networks is critical as researchers attempt to address this still-unquantified threat.



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Tally Ho! The Hunt for GNSS Innovations
Richard Thomas

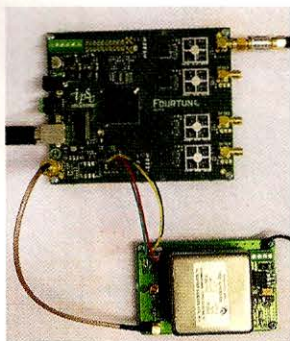
Inspired by her engineer father, the Scotland native has pursued an independent course to build a wide-ranging career in satellite navigation.



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How do you trust centimeter level accuracy positioning?
Mark Petovello with Shaojun Feng and Washington Ochieng



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James T. Curran, Michele Bavaro, Joaquim Fortuny, and Aiden Morrison

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Glen Gibbons

'Stormy' Martin Returns to PNT NCO as Director
GPS IIF-7 Launched; Signal Set Healthy



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Marco Lisi joins *Inside GNSS* Editorial Advisors



Dr. ing. Marco Lisi has joined the *Inside GNSS* Editorial Advisory Council, which provides counsel to the editorial staff of the magazine.

Lisi is presently the GNSS services engineering manager at the European Space Agency, in the directorate of the Galileo program and navigation-related activities. In this position he is responsible for the engineering and exploitation of services based on the European navigation infrastructures, Galileo, and EGNOS. He was previously responsible for the systems engineering, operations and security activities in the Galileo project.

Since October 2012, he has also served as special advisor of the European Commission on European space policy.

Previously, Lisi served as chief scientist for Italy's Telespazio S.p.A. reporting directly to the company CEO. Earlier he was the company's chief technical office and director of several space programs.

Lisi obtained a doctorate in electronic engineering from the University of Roma. He holds four international patents (with a fifth pending) and has authored more than 160 technical papers and conference presentations.