

21st International Technical Meeting of the Satellite Division of the Institute of Navigation, ION GNSS 2008

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Abstract: The proceedings contain 280 papers. The topics discussed include: reduced inertial sensor system (RISS)/GPS integration using particle filtering for land vehicles; on-line tuning of an extended Kalman filter for INS/GPS navigation applications; flight testing and data evaluation of MEMS INS-GPS hybridisation filters - first results; multichannel dual frequency GLONASS software receiver; design of a regional navigation satellite system constellation using genetic algorithms; GPS pseudo range measurement calibration; snapshot positioning for unaided GPS software receivers; a new approach to cellphone GPS antennas; navigation and sensor integration in an autonomous lawnmower; mitigating geomagnetic noise in airborne magnetic surveys using GPS; a novel low-complexity acquisition method for next generation GNSS signals; the IRGAL project: innovation and research on Galileo in Piedmont; and multipath and tracking performance of Galileo ranging signals transmitted by GIOVE-B.

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