63rd Annual Meeting of the Institute of Navigation 2007

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Abstract: The proceedings contain 80 papers. The topics discussed include: the desert ant's navigational toolkit: procedural rather than positional knowledge; chemical plume tracking behavior in animals and mobile robots; how birds perceive and use compass information from the geomagnetic field; navigation of homing pigeons: an analysis of GPS-recorded tracks; historical review of atomic frequency standards used in satellite based navigation systems; the timing group delay (TGD) correction and GPS timing biases; benefits derived from laser ranging measurements for orbit determination of the GPS satellite orbit; sensor data analysis for a dual airborne laser scanner aided inertial navigator; geomagnetic navigation and magnetic maps in sea turtles; estimation and control of self-motion and gaze in flying insects; ionosphere effects for wideband GNSS signals; and validation of radio occultation retrieval methods for Canadian conditions.

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