



## Second Annual Workshop

April 8, 2008

University Plaza Hotel & Conference Center  
3110 Olentangy River Rd  
Columbus, OH 43202

### Workshop Program (morning)

8:30	Workshop Registration
9:00	Welcome, introductions and workshop overview <i>Frank van Graas, COUNT Director</i>
9:30	Overview of Navigation Related Research at OSU-ESL <i>Inder J. Gupta</i> Mitigation of Antenna Induced Biases in GNSS Receivers <i>Andrew O'Brien</i> Effects of Mutual Coupling on the Performance of GPS AJ Antennas <i>Khadir Griffith</i>
10:30	<i>Break</i>
10:45	Overview of Navigation Related Research at Miami University <i>Jade Morton</i> Assessment of High Order Ionosphere Error Using Incoherent Scatter Radar and Dual Frequency GPS Measurements -- <i>Jade Morton</i> Adaptive Software Receiver Carrier Tracking Using Regression Techniques -- <i>Xiaolei Mao</i> Implementation of A Dual-Use OFDM Radar for Imaging and Navigation <i>Jon Schuenger</i> Internet-Based Real Time GPS Measurements Data Acquisition System for Long Baseline High Accuracy Receiver Studies -- <i>Dan Charney</i>
11:45	<i>Lunch</i>

## Workshop Program (afternoon)

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13:00	Overview of Research at Advanced Navigation Technology (ANT) Center at AFIT -- <i>John Raquet</i> Geolocation Using Small UAVS by Coupling INS/GPS/Image Data <i>Fred Webber</i> Efficient Feature Extraction for Image Navigation <i>Jeff Gray</i> Development of Night Vision Goggle Heads-Up Display for Paratrooper Guidance – <i>Fernando Ontiveros</i> Use of Image Data for Automated Aerial Refueling Relative Navigation – <i>Capt Jeffrey Steinbrink</i> Precision Navigation Using Pseudolites in 2.4GHz ISM Band <i>John Raquet</i>
14:00	<i>Break</i>
14:15	Overview of Navigation Related Research at OSU-SPIN <i>Charles Toth</i> Extraction of Static and Non-Static Features from 3D Flash LADAR Datasets -- <i>Nikki Markiel</i> Heights matter ... Heights COUNT <i>Karla Edwards</i> Personal Navigation: Adaptive Kalman Filtering <i>Shahram Moafipoor</i>
15:15	<i>Break</i>
15:30	Navigation Research Activities at Ohio University AEC <i>Frank van Graas</i> Four-Rotor Sensor Platform Design and Flight Test <i>Michael Stepaniak</i> Flash LADAR Aided Inertial Navigation <i>Don Venable</i> Sensor Technology Model Development and Evaluation for An Aircraft External Hazard Monitor -- <i>Mark Smearcheck</i> Integration of Dual Airborne Laser Scanners and Inertial for Terrain-Referenced Navigation -- <i>Ananth Vadlamani</i>
16:30	Discussions and Concluding Remarks
18:00	COUNT-hosted Banquet

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