



International Calibration and Orientation Workshop

January 30th – February 1st 2008, Castelldefels, Spain

TECHNICAL PROGRAMME

Wednesday 30th

- 9.00-9.15: Registration
- 9.15-10.30: **Opening Keynote Address.** Chairman: Ismael Colomina
 - Professor Armin Gruen: *"New Sensors - novel approaches for calibration and orientation"*
- 10.30-11.00: Coffee Break
- 11.00-13.00. **Calibration of large format cameras (1).** Chairman: To be confirmed.
 - M. Madani, I. Shkolnikov: *"Further Investigation into Geometric Accuracy of DMC"*
 - S. Kocaman, A. Gruen: *"Experiences with the orientation and calibration of aerial linear array CCD Sensors"*
 - Karsten Jacobsen: *"Geometric characteristics of large size aerial frame cameras"*
 - B. Arias, D.A. Nafria, V. Blanco, O.O. Rodríguez, M. Blanco, F.J. Antolín, J. Rodríguez, J. Gomez: *"Testing a digital large format camera"*
- 13.00-14.30: Lunch Break
- 14.30-15.30: **Technology update session: New GPS and Galileo signals.** Chairman: To be confirmed
 - Jose Angel Avila Rodriguez (Institute of Geodesy and Navigation, University FAF Munich): *"Present and future GNSS's - Overview of modernized and new signals"*
- 16:00-17:00: **INS/GNSS Technology and applications.** Chairman: To be confirmed
 - M. Blazquez, I. Colomina: *"On the use of inertial/GPS velocity control in sensor calibration and orientation"*
 - E. Parés, J.J. Rosales, I. Colomina: *"Yet another IMU simulator: validation and applications"*



International Calibration and Orientation Workshop

January 30th – February 1st 2008, Castelldefels, Spain

Thursday 31st

- 8.30-10.30: **Calibration of medium format cameras.** Chairman: To be confirmed
 - U. Ethrog: *“Goniometer-like laboratory method for determining a digital camera's interior orientation, as well as relative orientation in multiple-lens systems”*
 - M. Galo: *“Significance analysis of inner orientation parameters in the calibration process for digital frame cameras”*
 - M. Smith, N. Kokkas, A M Hamruni, D. Critchley: *“Investigation into the orientation of oblique and vertical digital images”*
 - D. Lichti, J. Skaloud, P. Schaer: *“On the calibration strategy of medium format cameras for direct georeferencing”*
- 10.30-11.00: Coffee Break
- 11.00-13.00: **Calibration of large format cameras (2).** Chairman: To be confirmed
 - M. Gruber, Richard Ladstädter: *“Calibrating the digital large format aerial camera UltraCamX”*
 - V. Casella, M. Franzini: *“In-depth analysis of systematic errors in an ADS40 dataset”*
 - U. Tempelmann, L. Hinsken, T. Saks: *“ADS40 system with new sensor heads – key to the simplified model for self-calibration and extended user benefits”*
 - M. Cramer: *The european certification of digital airborne cameras”*
- 13.00-14.30: Lunch Break
- 14.30-15.30: **Technology update session: MEMS technology for IMUS.** Chairman: To be confirmed
 - Henk Luinge (Xsens)
- 16:00-17:00: **Radiometric calibration.** Chairman: To be confirmed
 - E. Honkavaara, L. Markelin, J. Peltoniemi, J. Suomalainen: *“Radiometric calibration of digital photogrammetric systems”*
 - L. Martínez, R. Arbiol: *“ICC experiences on DMC radiometric calibration”*



International Calibration and Orientation Workshop

January 30th – February 1st 2008, Castelldefels, Spain

Friday 1st

- 8.30-10.30: **New applications and methods.** Chairman: To be confirmed
 - A. Gruen, D. Akca: *“Evaluation of the metric performance of mobile phone cameras”*
 - T. Abmayr , F. Härtl, G. Hirzinger, D. Burschka , C. Fröhlich.: *“Automatic registration of panoramic 2.5D scans and color images”*
 - O. Monserrat, M. Crosetto, B. Pucci: *“Co-registration of TLS point clouds for deformation measurements”*
 - F. Karimi, B. Gorte, S.P. Hoogendoorn: *“Optimization based image registration in presence of moving objects”*
- 10.30-11.00: Coffee Break
- 11.00-12.30: **Calibration of satellite based systems.** Chairman: To be confirmed
 - M. Crespi, F. Fratarcangeli, F. Giannone, F. Pieralice: *“Orientation of Quickbird, IKONOS and EROS A stereopairs by an original rigorous model”*
 - PV. Radhadevi: *“In-flight geometric calibration of Fore and Aft cameras of Cartosat- 1”*
- 12.30-13.00: **Calibration of land based systems.** Chairman: To be confirmed
 - T. Hassan, N. El_Sheimy: *“System calibration of land-based mobile mapping systems”*
- 13.00-13.15: **Farewell Address**