

GeoUAV , 1-2 october 2015, La Grande Motte

List of extended abstracts accepted on June 1st for oral presentation

- Construction of digital elevation models of the environment with lightweight airborne radar: simulation results. *Raphaël Rouveure, Marion Jaud, Patrice Faure, Marie-Odile Monod and Laure Moiroux-Arvis.*
- Coastal digital surface model on low contrast images. *Ana-Maria Rosu, Michel Assenbaum, Ywenn De La Torre and Marc Pierrot-Deseilligny.*
- System considerations and challenges in 3D mapping and modelling using low-cost UAV systems. *Zahra Lari and Naser El-Sheimy.*
- Automated georeferencing and color correction of orthomosaics. *Thorsten Behrens, Karsten Schmidt and Jerome Perin.*
- Restoration techniques for removal motion blur from remote sensing imagery. *Essam Hamza.*
- Height accuracy based on different RTK GPS methods for ultra-light aircraft images. *Khairul Nizam Taha.*
- UAV photogrammetry and GPS positioning onboard for earthworks. *Mehdi Daakir, Marc Pierrot-Deseilligny, Francis Pichard, Pierre Bossier and Christian Thom.*
- A redundant GNSS-INS low-cost UAV navigation solution for professional applications. *José Navarro, María Eulàlia Parés, Ismael Colomina, Germano Bianchi, Salvatore Pluchino, Rami Badour, Angelo Consoli, Jaouhar Ayadi, Atilio Gameiro, Odysseas Sekkas, Vassileios Tsesos and Theodoros Gatsos.*
- Real-time 3D reconstruction from images taken from an UAV. *Andrea Zingoni, Marco Diani, Giovanni Corsini and Andrea Masini.*
- Assessment of band coregistration of a light spectral frame camera for UAV. *Antonio Tommaselli, Raquel A. Oliveira, Larissa Y. Nagai, Nilton N. Imai, Gabriela T. Miyoshi, Eija Honkavaara and Teemu Hakala.*
- Potential of dense image matching for DSM generation in tropical forests using UAV and aerial images. *Raquel Alves de Oliveira, Adilson Berveglieri, Antonio Tommaselli and Eija Honkavaara.*
- UAV application in coastal environment, exemple of the Oleron Island for dunes and dike survey. *Guillot Benoît and Pouget Frédéric.*
- Implementation of real-time functionalities in the hardware of an intelligent ultra-light camera specialized for aerial photography. *Ahmad Audi, Marc Pierrot-Deseilligny, Christophe Meynard and Christian Thom.*
- Accuracy test of a miniaturized thermal infrared camera to be carried on board UAVs. *David Gómez Candón, Jean Pierre Lagouarde, Mark Irvine and Sylvain Labbé.*
- UAV linear photogrammetry. *Vincent Tournadre, Paul-Henri Faure and Marc Pierrot-Deseilligny.*
- UAV-based acquisition of 3D point clouds - a comparison of a low-cost laser scanner and SfM-tools. *David Mader, Robert Blaskow, Patrick Westfeld and Hans-Gerd Maas.*
- UAV-borne thermal imaging for forest health monitoring: Detection of disease induced canopy temperature increase. *Magdalena Smigaj, Rachel Gaulton, Stuart Barr and Juan Suarez.*
- Hippos jigsaw: Algorithm for automatic counts of animals with infra-red thermal imagery from UAV. *Simon Lhoest, Julie Linchant, Samuel Quevauvillers, Cédric Vermeulen and Philippe Lejeune.*
- Towards a new architecture for autonomous data collection. *Tullio Tanzi, Yves Roudier and Ludovic Aprville.*
- UAV Data Processing for Rapid Mapping Activities. *Winhard Tampubolon and Wolfgang Reinhardt.*
- WiMUAS: Developing a tool to review wildlife data from various UAS flight plans. *Julie Linchant, Simon Lhoest, Samuel Quevauvillers, Jean Semeki, Philippe Lejeune and Cédric Vermeulen.*
- Photogrammetry survey with a UAV and a long distance laser total station on an abandoned quarry. *Henri Borreill and Christophe Puerto.*
- Georeferencing of hot spots onto solar panels for inspection purpose. *Diane Michalon and Yoann Jobard.*

- Comparing ICESat/GLAS based elevation heights with photogrammetric terrain heights from UAV-imagery on East Tibetan Plateau. *Fabian Enßle, Andreas Fritz and Barbara Koch.*
- Unmanned aerial vehicles for pre-harvest biomass estimation in willow (*Salix* spp.) coppice plantations. *Rachel Gaulton and James Taylor.*
- Use of UAS in a high mountain landscape: the case of Gran Sommetta rock glacier (AO). *Elisa Dall'Asta, Reynald Delaloye, Fabrizio Diotri, Gianfranco Forlani, Matteo Fornari, Umberto Morra di Cella, Paolo Pogliotti, Riccardo Roncella and Marina Santise.*
- Use of very high resolution airborne images to analyse 3D canopy architecture of a vineyard. *Stephane Burgos, Matteo Mota, Dorothee Noll and Bertrand Cannelle.*
- Dedicated payloads for low altitude remote sensing in natural environments. *Laurent Beaudoin, Loïca Avanthey, Antoine Gademer, Michel Roux and Jean-Paul Rudant.*
- Optimizing channel weights for digital surface models with snow coverage. *Ruedi Boesch, Yves Bühler, Christian Ginzler, Marc Adams, Reinhard Fromm and Armin Graf.*