Preface

Hyperspectral imagery is an important research field in photogrammetry and remote sensing. GeoHyper is a two day conference organized by the ISPRS working group VII/3 in La Grande Motte, France. This event will also give the opportunity for the hyperspectral working group of the Société Française de Photogrammetrie et de Télédétection to hold its annual meeting. The purpose of this conference is to (1) discuss new methods, algorithms and applications related to hyperspectral remote sensing, (2) present new signal processing techniques such as: unmixing, fusion of panchromatic with hyperspectral images (3) promote this technique into a large range of applications such as: vegetation management, digital soil mapping and pollution identification and (4) but also for presenting new French hyperspectral technologies.

This conference aims at bringing together researchers and users from universities, research institutes, industry, government organizations, and private companies. Prospective authors were invited to submit full papers (up to 8 pages). We received 15 papers that were subjected to a rigorous double-blind peer review process. Based on these reviews, 14 papers were accepted for presentation and publication. They will appear in the volume II-3/W5 of the ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial information science.

Four oral sessions are proposed as follow: vegetation, soils and hydrocarbons, spectral unmixing, and hyperspectral imaging techniques. In addition, the GeoHyper conference will be enriched by four keynote speakers: Dr. Dalla Mura (GIPSA-Lab, Grenoble, France) on spectral unmixing, Dr. Baret (INRA, Avignon, France) on the use of UAVs for agriculture (in a common session between GeoUAV and GeoHyper conferences), Dr. Lefevre (CNES, Toulouse, France) on the updated status of the French hyperspectral payload, and Mrs Loncan (ONERA, Toulouse, France) on a review of fusion techniques of panchromatic with hyperspectral images. Up to now, more than 60 people are planned to attend this conference. We hope that it will contribute to promote this technique and to improve cross fertilization between the research communities and the end users.

Finally, the GeoHyper committee wishes to thank all contributing authors and the reviewers. In addition, we would like to warmly express our thanks to the ISPRS Geospatial Week. We hope that such an event will continue in the 2016-2020 period and that the new ISPRS commission will encourage even more cross-fertilization.

Toulouse, Postdam, Kensington, Tel-Aviv, Nantes, Paris, July 2015

Xavier Briottet, Sabine Chabrillat, Cindy Ong, Eyal Ben-Dor, Véronique Carrère, Rodolphe Marion, Stéphane Jacquemoud.