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2008

ISPRS 2004 - 2008

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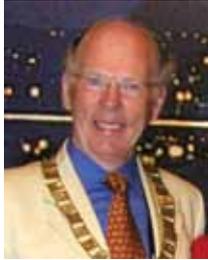
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Commission VII - Thematic Processing, Modeling and Analysis of Remotely Sensed Data



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Commission I - Terms of Reference

- Design and realization of digital aerial and spaceborne missions for Earth observation;
- Design, construction, characterization, and installation of imaging and non-imaging sensors (including Optical, IR, AR, IFSAR, lidar, etc.);
- Standardization of definitions and measurements of sensor parameters;
- Integration of imaging and non-imaging sensors with other relevant systems;
- Geometric and radiometric properties, quality standards, and factors affecting data quality;
- Test, calibration and evaluation of sensors (including laboratory, in-flight, inter-calibration and test fields);
- Integrated platform guidance, navigation, positioning and orientation;
- Data reception and pre-processing;
- On-board preprocessing of data and autonomous systems;
- Systems and media for recording sensor data, auxiliary data (time, position, attitude, etc.) and film scanners;
- Image and non-image data transfer standards.

WG I/1: Standards, Calibration and Validation

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WG I/1 Terms of Reference

- Techniques for laboratory calibration of sensors;
- In-flight radiometric and geometric calibration and validation of sensor systems;
- Establishment and utilization of existing and planned Cal/Val test sites;
- Sensor system parameter standards in relation with appropriate ISO Technical Commissions and projects;
- Managing the Joint ISPRS/CEOS Task Force on Calibration and Validation;

- Integrated activities between Cal/Val experts and data users;
- Overview of sensor-specific at-surface optical properties and temperature products;
- Collaboration with WG VII/1 on Cal/Val issues linked with definitions and measurements of Spectral Signatures.

WG I/2: SAR and Lidar Systems

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WG I/2 Terms of Reference

- Calibration and validation, specifications and formats of SAR and lidar data.
- Evaluation and assessment of systems for processing SAR and lidar data.
- Systems for generation and editing of DEMs from InSAR and lidar.
- Multi-frequency SAR, polarimetric InSAR, multi-pulse and full waveform lidar, array sensor systems.
- Systems for integration of InSAR, lidar and optical systems.
- Data quality and performance validation of SAR and lidar systems.
- Liaison with external groups such as CEOS, IEEE-GRSS,

ASPRS lidar Committee and EuroSDR.

WG I/3: Multi-platform Sensing and Sensor Networks

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WG I/3 Terms of Reference

- Study of capabilities of multi-platform sensing and sensor networks.
- Theory, technology and application in support of integrated multi-platform sensing and sensor networks and sensor web.
- Integration of imaging and non imaging sensors for sensor networks.
- Interoperable communication and networking of in-situ and remote sensors.

- Sensor data and parameters transfer standards, through participation in ISO TC 172 and OGC.
- Autonomous sensor and platform control.
- On-board data processing.

WG I/4: Airborne Digital Photogrammetric Sensor Systems

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WG I/4 Terms of Reference

- Collaborate with EuroSDR in the development of commonly accepted procedures for the calibration and testing of airborne digital photogrammetric sensor systems.
- Radiometric/geometric evaluation and cost/benefit performance of photogrammetric products resulting from airborne digital sensor systems.
- Develop workflow guidelines for suitable deployment and application of airborne digital photogrammetric sensor systems and their integration with other imaging and non-imaging sensors.
- Liaise with IC WG I/V on the development and evaluation of light payload digital photogrammetric sensor systems specific to unpiloted aerial vehicles (UAVs).
- Compile a comprehensive on-line searchable database of airborne digital photogrammetric sensor systems.

WG I/5: Geometric Modelling of Optical Spaceborne and DEM generation

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WG I/5 Terms of Reference

- Comparison of existing and evolving algorithms for geometrical modelling of space images under operational conditions including direct georeferencing capabilities and special conditions for 2- and 3- line sensors.
- Extrapolation of the previous comparisons (outside the area of the control points), analysis and report for each space imaging system.
- Intensified and detailed study on the accuracy and cost effectiveness of various DEM data acquisition techniques.
- Identification and cataloguing of international test sites for inter-comparison and evaluation of different DEM acquisition methods based on space information.
- Geometric quality requirements for advanced optical systems derived DEM.

WG I/6: Small Satellites**Chair****Ugur Murat Leloglu**

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WG I/6 Terms of Reference

- User requirements for designing and realizing small satellite missions, including constellations, for Earth observation.
- Inventory of small satellite missions for Earth observation and system performances.
- Assessment of the benefits of small satellites compared to other sources of information.
- Implementation of a forum for industrial and developing countries to share their results, experiences and recommendations.
- Cooperation with WG VI/3 for technology transfer to developing countries.
- Future trends in the development of sensors and platform, especially for small satellites.

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navigation technologies including: GPS, INS, dead reckoning, active and passive image/signal based positioning and navigation.

- Development and integration of vehicle navigation sensors and sensor networks.
- Research and development of algorithms that support autonomous navigation.
- Development and applications of robot navigation systems, driver assistance systems for land vehicles, and Unmanned Aerial Vehicles (UAV).
- Demonstration of state of the art autonomous navigation systems in working environments.

IC WG I/V Terms of Reference

- Design and development of autonomous vehicle

Commission II - Theory and Concepts of Spatio-temporal Data Handling and Information

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- System integration and modeling aspects for data and geoinformation processing
- Interoperability of heterogeneous spatial information systems
- Semantic and geometric integration of heterogeneous spatial information
- Communication and visualization of spatial data
- Data mining, filtering, retrieval and dissemination
- Spatial data quality and spatial model quality

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Commission II - Terms of Reference

- Fundamentals of spatial database design, spatial data structures, spatial analysis and geostatistics, spatial querying, spatial reasoning, spatial and temporal modeling
- Aggregation, generalization, abstraction and rendering of image and vector data
- Spatial decision support systems
- Processing, analysis and modeling of multi-dimensional geospatial data

WG II/1 Terms of Reference

- Spatial and space-time data models and structures
- Mobile non-point object modeling
- Spatio-temporal relationships
- Space-time topology

WG II/2: Spatial Reasoning, Analysis, and Data Mining

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WG II/2 Terms of Reference

- Spatial reasoning processes
- Information discovery in spatial databases
- Spatial analysis and statistics
- Spatial data mining

WG II/3: Multiple Representations of Image and Vector Data

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WG II/3 Terms of Reference

- Generalization and data abstraction of vector, raster and surface data, as well as related to semantics
- cartographic and model generalization
- generalization and simplification of digital surface data
- semantic abstraction levels
- Object representations for MRDB (Multiple Resolution/Representation Data Bases)
- data in various levels of resolution
- data in various thematic presentations
- link structures between individual objects of different representations
- Matching of image and vector data via different scales and themes
- automatic determination of appropriate abstraction level, where data sets are comparable
- matching taking semantics and geometry into account
- Development of multi-scale and multiple representations analysis tools, i.e. analysis operations that make use of the MRDB-structures

WG II/4: Spatial Planning and Decision Support Systems

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WG II/4 Terms of Reference

- Theory, concepts design and development of Spatial Planning Support Systems (SPSS)
- Modeling Spatial planning processes
- Suitability assessment, site selection, location/ allocation and resource allocation problems
- Integration of bio-physical and socioeconomic models
- Design and development of Planning/Spatial Support Systems (PSS, SPSS)
- Theory, concepts, design and development of Spatial Decision Support Systems (SDSS)
- Theory concepts and application of Spatial Multiple Criteria Decision Analysis (SMCDA) in single and group environment
- Theories and concepts of decision supports using vague information
- Theory and application of knowledge-based systems
- Design and development of Spatial Decision Support Systems (SDSS)
- Design and development of Collaborative Spatial Decision Support Systems (CSDSS)
- Theory, concepts, design and development of Integrated Planning and Decision Support Systems (IPDSS)

WG II/5: Communication and Visualization of Spatial Data

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WG II/5 Terms of Reference

- Communication of spatial information
- Geovisualization (including the Web)
- Novel methods and tools for uncertain data

WG II/6: System Integration and Interoperability

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WG II/6 Terms of Reference

- Ontologies and geosemantics
- Semantic and geospatial data(base) interoperability
- Geo-spatiotemporal knowledge representation

WG II/7: Quality of Spatio-temporal Data and Models

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WG II/7 Terms of Reference

- Quality control for spatio-temporal data
- Uncertainty propagation in spatial analysis

- Presentation of quality information by metadata in GIS
- Quality of spatio-temporal models
- Models for quality of spatio-temporal data

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IC WG II/IV Terms of Reference

- Continue the series of ISPRS workshops on Dynamic and Multi-dimensional GIS (DMGIS)
- Research on the development of dynamic GIS, especially for marine environment
- Research on the development of multi-dimensional GIS (e.g. true 3-Dimensional GIS)
- Develop methodology and algorithms for dynamic operations in GIS
- Research on the design and development of databases for dynamic and multi-dimensional GIS
- Enhance the collaboration of with the communities of "Spatial Data Handling" and "Computational Geometry"

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Commission III - Terms of Reference

The goal of the work in Commission III is to design, develop and evaluate mathematical models and methods for automatic,

- orientation and calibration of images,
- surface reconstruction,
- fusion of multi-modal data,
- processing and interpretation of laser range data,
- interpretation of images and
- image sequence analysis with emphasis on
- integration of geometry, statistics and semantics,
- modeling of spatial objects and temporal events,
- modeling context,

- scale behaviour of appearance models,
- use of graphical models, especially Markov random fields and Bayesian networks.

WG III/1: Automatic Calibration and Orientation of Optical Sensors

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WG III/1 Terms of Reference

- To promote within ISPRS more or less fully automatic methods for calibration and orientation without requiring markers. Current state-of-the-art methods are to be tested with respect to general applicability and robustness. Thereby, a further refinement and robustification of these methods is to be fostered
- To provide various test data sets for image calibration/orientation tasks and invite researchers to evaluate their algorithms against known ground truth data with respect to general applicability and robustness.

WG III/2: Surface Reconstruction

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WG III/2 Terms of Reference

- To promote more or less fully automatic methods for surface reconstruction. Current state-of-the-art methods with respect to general applicability, reliability and performance are to be tested.
- To provide various synthetic and real test data sets for surface reconstructions tasks and invite researchers to evaluate their algorithms against known ground truth data.

WG III/3: Processing of Point Clouds from Laser Scanners and Other Sensors

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WG III/3 Terms of Reference

- To analyse point clouds from laser range finders, but also from multiple view image matching as basis for surface and object reconstruction as well as interpretation. Special problems to be addressed are segmentation and filtering, generation of digital surface models and digital elevation models, earth surface characterization, and automated as well as semi-automated extraction of objects from multiple sources (close range and aerial scans, RGB, NIR and others). There is a close cooperation with the WG on 'Surface and object reconstruction from terrestrial laser scanners'.

WG III/4: Automatic Image Interpretation for City-Modelling

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WG III/4 Terms of Reference

- To develop and analyse various methods for automatically and efficiently generating high resolution 3D-city models, integrating all types of topographic features, especially buildings and vegetation. Problems addressed are the interpretation of the aerial, space borne and terrestrial image, laser, and (In)SAR data possibly together with information from traditional cartographic products, CAD models, and urban GIS, automatic as well as semi-automatic generation of urban models with level-of-detail (LOD) and inferred attribution including analysis of the trade-off between geometry and radiometry/texture for visualization and the assessment of efficiency and quality of techniques for extraction of buildings and vegetation and their dependence on the quality of the input data.

WG III/5: Models and Algorithms for Road Extraction and Traffic Monitoring

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- To develop, implement, and test models and strategies for automated 2 1/2D and 3D road extraction from optical, radar, and laser data. Particular areas of interest are the modelling of to model road crossings for data interpretation, the extraction of road attributes, to develop and test algorithms for detection and velocity estimation of methods for micro- and macro-scale traffic monitoring.

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- To promote research in the following topics: tracking single and multiple objects, ego-motion determination for navigation, object and event reconstruction from single and multiple video streams, camera and camera network calibration from video sequences including cameras with non-standard geometry, object identification from video sequences.

Commission IV - Geodatabases and Digital Mapping

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Commission IV - Terms of References

- Development, access and management of spatio-temporal databases
- Spatial data infrastructures
- Image-based geo-spatial databases
- Data libraries, data clearinghouses, data warehouses, distributed archives and access to remote data sources, including metadata and digital data standards
- Web based access, retrieval and dissemination of spatial data, including web-based location-based services
- Integration of spatial information systems and image analysis for database-driven change detection, data capture and updating
- Dynamic spatial information systems, spatial data revision and versioning
- Interfacing 3D models with facility management systems
- Database generation for digital topographic and thematic mapping (including Ortho-images and digital terrain models)
- Digital landscape modelling and visualization, and large scale urban models
- Global environmental databases and mapping
- Extraterrestrial mapping and spatial information systems
- Analysis of systems and their components for automated and semi-automated digital mapping and geo-information systems

- Analysis of industry needs and design of systems for production and update of Geo-information

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WG IV/1 Terms of Reference

- Development and management of multi-scale national, regional and global databases
- Data harmonisation and synergy approaches of multi-scale vector data and imagery
- Integration of spatial data with socio-economic and environmental data for various geographic information services
- Standards for content, access, evolution and update of data framework
- Development of comprehensive metadata, quality evaluation procedures and their standardization
- Cooperation and Liaison with GSDI, WGISS, ICA, OGC and ISO

WG IV/2: Image-based Geospatial Information Management

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WG IV/2 Terms of Reference

- Characteristics of Image- and Video-Based Spatial and Temporal Databases
- Content-Based Indexing, Querying, Data Mining, and Information Retrieval in Image- and Video-Based Geospatial Databases
- Spatio-Temporal Imagery Database Management and Organization
- Managing Uncertainty and Redundancy in Large Collections of Imagery
- Geospatial Information Management in Sensor Networks
- Automated Semantic Annotation of Imagery, and Image-Derived Multimedia Metadata
- Imagery-Enriched Virtual Reality Models as GeoSpatial Databases
- Collaboration with TC II and the relevant Special Interest Groups (e.g. SIGMOD, SIGIR, SIGKDD) of the Association for Computing Machinery (ACM).

WG IV/3: Automated Geo-spatial Data Acquisition and Mapping

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WG IV/3 Terms of Reference

- Evaluation and development of semi-automated and automated algorithms for update, change detection and quality control
- Facilitation of the integration of these algorithms into digital photogrammetric and GIS workstations
- Adaptation of update processes to increasingly complex data models
- Development of advanced techniques for implementing "near-real-time" mapping
- Collaboration with ISPRS TC II and WG IV/1, IV/2, IV/8 with Euro SDR (formerly OEEPE) and ICA Commission on Updating and Versioning.

WG IV/4: Landscape Modelling and Visualisation

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WG IV/4 Terms of Reference

- Assessment of remote sensing data for generating and visualizing landscape and models
- Integration of multi-source and multi-scale data in local and regional landscape modelling and visualization applications
- Application of dynamic models for integrating multi-temporal landscape data sets
- Application and assessment of advanced visualization, virtual reality and multimedia methods for 2-D, 3-D and 4-D mapping tasks in stand-alone or web-based environment

WG IV/5: Web-based Geo-information Services and Applications

Chair

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WG IV/5 Terms of Reference

- Web-based geo-spatial data processing, services and applications
- Web-based geo-spatial technology integration
- Adaptation of GRID computing technology for Web services
- Development of adaptive visualizations of spatial information
- Applications of web-based 3D GIS and collaborative geographic visualization
- Application modelling and development of web geo-spatial data processing and services
- Cooperation with related commissions and/or working groups, ICA (Internet and Mapping Commission), WGISS, etc

WG IV/6: Location Based Services

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WG IV/6 Terms of Reference

- Concepts and data models for LBS, including data structures, formats, compression techniques, 3D LBS and streaming issues
- Processes for real time integration, generalization, updating and visualization of spatial information supporting mobile applications
- LBS system architectures, interoperability, communication technologies and networks
- Advances in mobile positioning, location management, tracking, billing, logistics and emergency services
- Development of personalized mobile services and intelligent agents
- Service content, acquisition and update of non-spatial and spatial content, content management and integration of user content, location enabling and location aware services, info mobility services
- Presentation and user-interaction issues of LBS, usability, mobile interface design, cartographic and multimedia aspects
- Value added services, new applications fields and legal aspects of LBS
- Cooperation with related working groups of ICA; IAG, and others (tbd)

WG IV/7: Extraterrestrial Mapping**Chair****Jürgen Oberst**

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WG IV/7 Terms of Reference

- R&D for advanced techniques in data acquisition, processing, and analysis pertaining to the mapping of celestial bodies
- Definition or evaluation of reference systems, coordinate systems, map sheet definitions, etc. and their standardization
- Development of spatial information systems to support extraterrestrial exploration and science
- Web based delivery of extraterrestrial map products and GIS data
- Cooperation with related working groups viz. IAU, NASA, ESA, ISRO, JAXA and other space organisations and liaisons with the ICA Commission on Planetary Cartography

WG IV/8: Spatial Data Integration for Emergency Services**Chair****Sisi Zlatanova**

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WG IV/8 Terms of Reference

- Integration of 3D GIS and intelligent image analysis systems for emergency management in urban environments
- Application of low-cost and real-time digital imaging and mobile mapping technologies for emergency response
- Application of 3D data structures, algorithms, and standards for emergency data management and exchange
- Geo-ontology and semantics for emergency response
- Innovative knowledge-based systems for browsing and analysis in distributed environments
- 3D visualization of scenes and situations (including indoor) on different mobile front-ends
- Analysis of emergency management needs for production and updating of spatial information

WG IV/9: Mapping from High Resolution Data**Chair**

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WG IV/9 Terms of Reference

- To investigate the update of topographic vector datasets; digital terrain models; ortho-images and thematic (land-cover) datasets from high-resolution imagery
- To investigate how synergy may be achieved between the various high resolution and other sensors, for topographic and thematic mapping
- To determine methodologies for the integration of mapping data with high resolution images, to aid in the extraction of terrain information
- In collaboration with ISPRS Working Groups I/4 (airborne digital photogrammetric sensor systems), I/5 and III/4 and to evaluate the information content and accuracy of the new high-resolution sensors
- To contribute to work on standardising the description of raster and vector contents of digital maps

Commission V - Close-Range Sensing: Analysis and Applications

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Commission V - Terms of Reference

- Investigation of systems and algorithms for real-time imaging
- Development, evaluation and promotion of vision metrology technology with special consideration of CAD/CAAD and spatial information systems
- Integration of three-dimensional modeling concepts into image analysis processes
- Integration of multiple sensors and data fusion for advanced object extraction
- Design and development of image sequence analysis procedures
- Development of vision-based techniques for visualization, virtual environments and animation
- Support and promotion of a variety of existing and potential applications, such as industrial, heritage, mobile mapping, medical, biomechanics and robotics

WG V/1: Industrial Vision Metrology Systems and Applications

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WG V/1 Terms of Reference

- Passive and active vision systems for industrial metrology, automation in vision metrology, image engineering
- Multi-sensor and hybrid systems
- Sensor and system calibration, accuracy assessment and verification, discussion of standards
- Free-form surface measurement techniques, illumination and projection methods (structured light, illumination algorithms)
- On-line and real-time systems, dynamic and high-speed processes
- Machine vision, industrial quality control and industrial robotics
- CAD/CAM integration and modelling, use of domain knowledge for automation
- New application fields
- Cooperation with CMSC (Coordinate Metrology Systems Conference) and national/international standards organizations
- Integration of system manufacturers and service providers

WG V/2: Cultural Heritage Documentation

Chair

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WG V/2 Terms of Reference

- Development and integration of close-range vision techniques and spatial information systems for recording, mapping, 3D modelling and visualization of structures of architectural significance and objects of importance to the cultural heritage.
- Promotion of innovative technologies and development of new products in support of archaeology, architecture and conservation for imaging, data processing, modelling, visualization, archiving and information management.
- Integration of computer graphics with close-range vision techniques for digital archives or Virtual Reality museums.
- Development and integration of close-range imagery with aerial and satellite images, and spatial information systems to enhance 3D reconstruction and documentation of areas, monuments and buildings for cultural heritage.
- Development of strategies and best practices for long-time storage and archiving of digital imagery for documentation of Cultural Heritage.
- Development of low-cost and rapid techniques in documentation and monitoring of the cultural heritage.
- Development of standard procedures and products in cooperation with related disciplines.
- Promotion and use of Internet techniques, VR techniques and animation techniques to facilitate promotion of cultural heritage.
- Close cooperation with related disciplines, and with national and international groups (e.g. CIPA), as well as ISPRS WGs and regional groups.

WG V/3: Terrestrial Laser Scanning

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WG V/3 Terms of Reference

- Automated techniques for sensor orientation, including practical evaluation of registration algorithms.
- Scene classification and feature extraction (in collaboration with WG III/3 - Vosselman/Brenner).
- Integration with other data sources, particularly imagery for texture mapping, and other sensors for observing exterior orientation elements.
- Modelling of systematic error sources and development of calibration procedures.
- Modelling laser scanner measurement processes internal and external to the instrument.
- Practical application of terrestrial laser scanners for engineering, cultural heritage recording, forestry and other applications.
- Collaboration with FIG Task Force 6.1.5 'Terrestrial Laser Scanning for Deformation Monitoring'.

WG V/4: Virtual Reality and Computer Animation

Chair

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WG V/4 Terms of Reference

- Increasing the automation in VE contents creation; streamlining the process of creating complex environments from multiple data sources; defining and assessing accuracy requirements.
- Real-time visualization and interactive manipulation of detailed and highly textured surfaces; defining and assessing realism and level of details requirements.

- Use of photogrammetric and computer vision techniques for the dynamic analysis of human motion and the animations of virtual characters.
- Promotion of VR applications from reconstructed 3D scenes and human characters, requiring 3D models created with photogrammetric techniques, or with other integrated techniques.
- Location based services (combination of mobile computational capabilities, imaging capabilities, positioning devices and network access), applications for virtual and augmented reality techniques and mobile information systems.
- Collaboration with computer graphics, computer vision, medical/biomedical engineering, human/apparel engineering, and ergonomics communities; cooperation with CIPA, ISB and ACM-SIGGRAPH.

WG V/5: Development in Image Sensor Technology

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WG V/5 Terms of Reference

- Design, characterization, calibration and evaluation of imaging sensors for close range photogrammetry and terrestrial application.

- Evaluation of image sensors (CCD, CMOS, IR-Bolometer), thermal systems and time-of-flight based range image sensors.
- Evaluation of non-standard imaging principles (panoramic cameras, fisheye systems, catadioptric sensors and other omni-directional vision techniques).
- Sensor and system integration, application of sensor networks.
- Geometric and radiometric properties of image data, quality standards, and factors (environmental and others) affecting data quality.

WG V/6: Medical Image Analysis, Human motion and Body Measurement

Chair

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WG V/6 Terms of Reference

- Research and development in techniques and systems for analysis and 3D reconstruction in medical imaging, dentistry, and biomaterial engineering, biomedical and biomechanical engineering, tele-medicine, advanced 3D computer vision techniques and medical VR/AR.
- Research and development in techniques and systems for analysis, 3D reconstruction and applications in sport medicine and fitness (e.g. motion capture, human gait analysis, full body measurement, shape tracking) and face and expression analysis.

- Vision techniques in biometry research, security applications and forensics.
- Applications of 3D surface measurement techniques for medical applications (orthodontics, prosthetics, orthopedics, plastic surgery, reconstructive medicine, forensic medicine, dentistry, ORL, cosmetics).
- Applications of 3D motion capture techniques for clinical motion analysis, registration of patient-specific data.
- Adaptation of photogrammetric techniques for geometric modelling and (self-) calibration of X-ray and tomography systems.
- Cooperation and collaboration between ISPRS and the communities of medical/biomedical engineering, human/user interface development and animation.

INTER-COMMISSION (IC) WG V/I: Integrated Systems for Mobile Mapping

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IC WG VII Terms of Reference

- Integrated Navigation systems for direct georeferencing.
- Integration with other data sources, in particular laser scanners data.
- Data fusion of land and airborne mobile mapping systems.
- Emerging intelligent processing techniques.
- Future trends in the development of ISMM and Mobile Mapping Systems (MMS).
- New areas of ISMM applications.

Commission VI - Education and Outreach

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- Quality enhancement of content and format of ISPRS publications and Internet web site (WG4).

WG VI/1 Educational Frameworks and Methodologies

Chair

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Commission VI - Terms of Reference

- Promotion of education and training at fundamental, advanced and professional levels (WG1, 3),
- Promotion of technology transfer, considering regional needs and resources (WG3),
- Computer-assisted teaching and training, and distance learning (WG1, 2),
- Innovative techniques for information dissemination on the Internet (WG4),
- Promotion of student consortium and innovative outreach activities (WG5),
- Assistance of the Council in promotion of ISPRS activities in the regions (WG3),

Co-Chair

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WG VI/1 Terms of Reference

- Investigation, evaluation, and clarification of national and international frameworks of education in terms of legislation and accreditation
- Assessment of methodologies for optimizing various ways of education including school education, life-long education, re-education of senior engineers, and international exchange in education
- Promotion of scientific publications in our fields and collection and dissemination of respective bibliographic information
- Development of connections with international organizations such as FIG, ICA, UN for investigating and evaluating the international frameworks on education

WG VI/2 E-learning

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WG VI/2 Terms of Reference

- Collection, analysis, dissemination and promotion of material, software and data (hardcopy and/or softcopy) for e-learning including computer assisted teaching and distance learning.
- Investigation of the role of e-Learning in modern education and training such as material, methodologies and tools.
- Assessment and evaluation of highly interactive multimedia materials and their use in tertiary level courses in remote sensing, photogrammetry and SIS.
- Organization of the software contest CATCON for promotion and dissemination of free educational software.

WG VI/3 International Cooperation and Capacity Building

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WG VI/3 Terms of Reference

- Development of connections with international organizations such as CEOS for wider promotion of education in the field of photogrammetry, remote sensing and SIS.
- Development of matrices of joint activities on capacity building, including technology transfer and training, with ISPRS Regional Members and other international organizations such as UN, especially for developing countries.
- Identification of channels for international cooperation in technology transfer and training and stimulation of international and regional organizations to support and fund activities promoted by ISPRS (in co-operation with the Council).
- Assessment of restrictions to international collaboration in capacity building resulting from national and regional legal educational frameworks (in terms of accreditation and certification) and ways to address them.
- Collaboration with WG I/6 on technology transfer related to small satellites

WG VI/4: INTERNET RESOURCES AND DATASETS

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WG VI/4 Terms of Reference

- Identification, collection, evaluation and dissemination of information on Internet resources, and datasets which are useful for education in the field of remote sensing, photogrammetry and spatial information sciences.
- Identification, promotion, and organization (in cooperation with educational and research institutions) of educational material (courses, tutorials, glossaries etc.) in electronic form.
- Assessment and evaluation of the ISPRS web site for further enhancement.

**WG VI/5 - PROMOTION OF
THE PROFESSION TO STUDENTS**

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WG VI/5 Terms of Reference

- Promotion and support of international student activities including the ISPRS Student Consortium.
- Encouragement of active participation of students, especially undergraduate students, in ISPRS events and promotion of reduced fees and stipend for their participation.
- Collection and maintenance of a database on persons who are involved in the promotion of the profession to students, including the members of ISPRS Student Consortium and educators.

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Special Interest Group Terms of Reference

- Transfer of knowledge and technology by initiating and organizing seminars, tutorials and workshops with special consideration of the needs of developing countries.
- Development of teaching material for mobile, caravan-type teaching and training projects.
- Initiation and support of e-learning and remote teaching activities with focus on integration of high-tech elements in teaching and training.
- Support of events with strong participation of young scientists and students.
- Solicitation of support from potential sponsors (system manufacturers, government agencies, NGO/NPOs, foundations etc.) for the projects and activities.

Commission VII - Thematic Processing, Modeling and Analysis of Remotely Sensed Data

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Commission VII - Terms of Reference

- Relationship between spectral, radiometric and temporal properties of objects and surfaces, their physical and chemical properties and their variations;
- Image classification and analysis methodologies;
- Analysis of characteristics of multi-spectral, hyperspectral, multi-sensor, microwave and multi-temporal image data for extraction of attribute information;
- Methodologies of computer-assisted interpretation and analysis of remotely sensed data;
- Validation of data and information using laboratory and in-situ methodologies
- Improving atmospheric modeling for radiometric correction;
- Multi-source data fusion and integration techniques;
- Modeling of satellite data derived parameters;
- Global databases and determination of indicators of change for global modeling, monitoring and sustainable development;
- Integration of remote sensing and GIS techniques;
- Aerosol and particulate detection and identification.

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WG VII/1 Terms of Reference

- Study the relationship of spectral, directional, temporal, and polarimetric properties of objects, as well as their physical and chemical properties and variations
- Research on advanced quantitative, physical based retrieval of biophysical and biochemical parameters
- Research of methods based on full spectral signatures using assimilation, inversion, and neural networks
- Study spectrodirectional ('the combination of multiple view angles with imaginary spectrometers') data acquisition potential and subsequent retrieval methods.

WG VII/2: INFORMATION EXTRACTION FROM SAR DATA

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WG VII/2 Terms of Reference

- Processing airborne and spaceborne SAR data
- Polarimetric SAR processing
- Interferometric SAR processing
(INSAR, Differential InSAR, Permanent/caterer InSAR.)
- Bi-static SAR processing
- SAR signal processing, noise reduction

WG VII/3: INFORMATION EXTRACTION FROM HYPERSPECTRAL DATA

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WG VII/3 Terms of Reference

- Develop inter-operability of hyperspectral systems
- Develop methodologies for upscaling of in-situ measurements and downscaling of remote sensing measurements
- Develop calibration/validation procedures for hyperspectral data
- Study empirical Vs. physical models
- Ensure close collaboration with WG VII/1

WG VII/4: ADVANCED CLASSIFICATION TECHNIQUES

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WG VII/4 Terms of Reference

- Image classification and analysis methodologies. New algorithms for the extraction of thematic information and the assessment of thematic quality. Look for synergism between classification approaches. Pixel wise classification, context analysis, texture analysis.
- Advanced and practical methodologies of Computer Assisted Interpretation (CAI) and Analysis of remotely sensed data. This should include expert systems and knowledge based tools to help the human interpretation of images.
- Enhanced methodologies for thematic data extraction using emerging sensor data sources, Multiple view sensors, thermal sensors.

WG VII/5: PROCESSING OF MULTI TEMPORAL DATA AND CHANGE DETECTION

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WG VII/5 Terms of Reference

- Analysis of characteristics of multi temporal image data for extraction of attribute information
- Methodologies of computer assisted interpretation and analysis of multi temporal image data
- Time series analysis and modeling based on multi temporal image data
- Temporal pattern recognition and modeling methodologies
- Methodologies for global monitoring, modeling and prediction
- Algorithm and methodology development for tracking moving objects
- Data integration and change detection for map updating

WG VII/6: REMOTE SENSING DATA FUSION

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WG VII/6 Terms of Reference

- Automatic registration of images with different sensor, different resolution, and different acquisition mode
- Concept study and methodology development of data fusion at feature and decision levels
- Multi-source data fusion and integration methodologies, especially optical and radar data fusion
- Application of data fusion to object recognition, classification and change detection, etc.

**WG VII/7: INNOVATIVE PROBLEM SOLVING
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WG VII/7 Terms of Reference

- Convert theoretical methodologies and models into practical operational ones suitable for Less Developed Countries
- Develop integrated methods for Remote Sensing and in-situ data collection for data-sparse regions
- Develop appropriate image processing methods using simple computer technology
- Develop appropriate methodologies for multi source, multi resolution (temporal, radiometrical) and spatial data fusion for new mapping and map updating in LDC
- Develop algorithms for improvement and calibration of airborne videography for geometrically less significant applications, for thematic map updating in LDC
- Assess the relevance of Remote Sensing methods developed by other Working Groups to Less Developed Countries
- Liaise closely with TCVI WG on Transfer and Technology, with other TC's on methodology development, and with regional ISPRS members such as SELPER, AARSE, EARSeL and AARS.

**INTER-COMMISSION (IC) WG VII/IV DERIVATION OF
GLOBAL DATA, ENVIRONMENTAL CHANGE AND
SUSTAINABILITY INDICATORS**

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IC WG VII/IV Terms of Reference

- Develop methodologies for generation and quality evaluation of global databases for global studies

- Develop algorithms for monitoring aspects of global change such as land use, land cover, land changes
- Evolve strategies for assimilating remotely sensed data into global models
- Stocktaking and compilation of existing and planned Global DB and identification of significant gaps and overlaps
- Development of environmental infrastructures for access and use as one of use case of Global DB
- Standardization, harmonization and integration of Global DB on national, regional and global levels and their promotion
- Development User Access the innovative user access interface for browsing an analysis through increase interoperability on distributed network, e.g. open global standard, 3D Geo-browser and Grid computing
- Develop algorithms, models and sustainability indicators for predicting changes in different eco-systems
- Methodologies for global monitoring, modeling and prediction
- Enhance international cooperation by identifying and generating common environmental sustainability indicators amenable to remote sensing with organizations such as ISCGM, WGISS, ICA, Digital Earth, IGBP

COMMISSION VIII - Remote Sensing Applications and Policies

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Url: www.rjb-3d.com

Commission VIII – Terms of Reference

- General consideration for all aspects
- Sustainable development
- Ecological and environmental considerations
- Human Impact
- Supporting
- Decision-making by providing useful information to the user in near real time on operational basis
- Forecasting
- Monitoring
- Solving problems and conflicts
- Topics
- Human settlements
- Hazards and disasters
- Land degradation and desertification
- Natural resources
- Geology, Geomorphology
- Water
- Arid lands
- Coastal zones and wetlands
- Ocean color and state
- Forests and Landscape biodiversity
- Agriculture and food production
- Atmosphere, climate and weather
- Regional correlated issues
- Policies and Treaties
- Collaboration with other Societies, organizations, International (regional) and national agencies and institutions.

WG VIII/1: HUMAN SETTLEMENTS AND IMPACT ANALYSIS

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WG VIII/1 Terms of Reference

- Application of improved interpretation and mapping methods for urban, sub-urban and peri-urban land-use in transition to help for better urban planning using aerial and high spatial resolution spaceborne data.
- Remote observations for monitoring urban environment and implementation of change detection algorithms for the study of urbanization structure and development processes.
- Use of RS & GIS for infrastructure development for rural and urban settlements.
- Study impact of urbanization, industrial growth and mega engineering structures on ecological and social environment, urban sustainability; tracking of disease vectors.
- Documentation, conservation and management of natural heritage and cultural landscapes in cooperation with UNESCO/ICOMOS/CIPA.
- Interface with IHDP.

WG VIII/2: HAZARDS, DISASTERS AND PUBLIC HEALTH

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WG VIII/2 Terms of Reference

- Generation of vulnerability and hazard zone maps for different type of disasters such as forest fire, cyclone, floods, drought, volcanoes, earthquake, land slides etc and Identification & assessment of potential risk zones.
- Integrate remotely sensed observation and communication strategies with enhanced predictive modelling capabilities for disaster detection, early warning, monitoring, damage assessment and Public Health in cooperation with CEOS, IGOS and other national, regional and international organizations and efforts.
- Development of disaster management plans for pre-, during and post disaster situations and enhance support for early warning systems and emergency events mitigation and management decision-making and.
- Foster the creation of more effective information systems to support disaster management activities; quick damage assessment; relief and rescue operations; and all environmentally-induced events that affect public health.
- Organize workshops and seminars for applying remote sensing data products to public health and other environmentally - induced events that may affect humankind.

WG VIII/3: ATMOSPHERIC, CLIMATE AND WEATHER RESEARCH

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WG VIII/3 Terms of Reference

- Summarize an overview of existing and planned observational systems, with focus on cloud and aerosol properties.
- Identify gaps in existing observational capacity for retrieving cloud and aerosol properties.
- Contribute to the definition of a system of space, air and in-situ observations and to refinements of models in collaboration with the World Meteorological Organization (WMO).
- Identify multi-sensor techniques for retrieving cloud and aerosol properties.
- Identify the needs of numerical weather and climate models for remotely sensed cloud and aerosol properties.
- Implement, enhance and define methods and techniques for better extraction and processing the information content of satellite data for weather and climate research.

WG VIII/4: MANAGEMENT OF TROPICAL ENVIRONMENTS RESEARCH

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WG VIII/4 Terms of Reference

- Identify tropical regions inherent problems related to remote sensing data acquisition and processing (cloudiness, lack of infrastructure...) and propose solutions.
- Review the potential and limitations of remote sensing and develop remote sensing applications for studying and monitoring tropical environments (mangrove, tropical wetlands, suburban areas...) and for specific issues found in tropical areas (epidemiology of vector-borne diseases, deforestation monitoring, topography through rain forest canopy...)
- Implement ground measurements to improve the understanding of sensor responses on tropical ecosystems

WG VIII/5: POLICIES, TREATIES AND DATA ACCESS

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WG VIII/5 Terms of Reference

- Use of remotely sensed imagery by commercial satellites for the verification of treaties.
- Study the potential and limits of commercial satellite imagery with regard to transparency, data reliability and continuity of data availability.
- Analyzing present and future trends of national and international remote sensing programmes; remote sensing satellites and security; and policies.
- Coordinate ISPRS contributions to studies of applying remote sensing for international policies and treaties.
- Cooperate with other ISPRS working groups to support international cooperation and policy making for the implementation of optimum constellation of complementary satellites to meet Earth Observation requirements on a long term basis.
- Cooperate with IPAC and coordinate efforts to produce ISPRS white papers on space.

WG VIII/6: COASTAL MANAGEMENT, OCEAN COLOUR AND OCEAN STATE FORECASTING

Chair

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WG VIII/6 Terms of Reference

- Develop quantitative understanding of coastal processes, i.e., physical dynamics, delivery of land materials, particle dynamics, ecosystem structure, and carbon cycles.
- Study the impact of human activity on the coastal zones, with specific attention on wetlands, estuaries, and coral reefs.
- Monitor harmful algal blooms, including detection, understanding of factors which encourage formation. Development of control and mitigation measures.
- Further the conservation of marine ecosystems and bio-diversity, and study wild fisheries and other processes affecting stock recruitment and nursery habitats with development of indicators and monitoring of trends.
- Development of analytical algorithms for retrieval of bio-geo-chemical parameters, data merging, and for the improvement of coastal products;
- Foster the development of procedures and protocols for Integrated Coastal Zone Management using remote sensing and GIS techniques. Further the work on resolving the vertical datum, linking land and chart datum, for predicting tidal cycles;
- Modelling inter-comparison activities, especially for coupled 3D hydrodynamic and biological models that are needed to study the ocean carbon cycle.
- Support an initiative to demonstrate the value of remotely sensed imagery for accurately predicting site-specific tidal cycles, and other issues, in collaboration with the International Hydrographic Organization (IHO), International Ocean Color Coordinating Group (IOCCG) and the Global Ocean Observation Experiment group.

WG VIII/7: WATER RESOURCES SECURITY AND MANAGEMENT

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WG VIII/7 Terms of Reference

- Implementation of remotely sensed spectral data to monitor and investigate point and non-point discharge of pollutants into natural and man-made water transportation and storage system; for investigating sedimentation in reservoirs; and for any other contamination of water resources.
- Adoption of remotely sensed spectral data into GIS data bases for monitoring quality and quantity of water resources.

- Further the role of remote sensing and GIS data sources and spatial processing methods in sustainable development of water resources, water quality studies and planning continued availability.
- Integration of remote sensing and GIS for rainfall runoff modeling.
- Cooperate with ISPRS WG VIII/8, WG VIII/3 and other organizations on applications of remote sensing for snow and glaciers studies and the effect of climate change on water resources.

WG VIII/8: POLAR AND ALPINE RESEARCH

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WG VIII/8 Terms of Reference

- Identifying and conducting remote sensing initiatives supporting the International Polar Year (2007-2008)
- Improving the retrieval of geophysical parameters relevant to the different elements of the cryosphere
- Developing strategies and algorithms for assimilating remotely sensed data in models of polar processes
- Developing long-term records and studying on-going changes in polar and other ice-covered regions.e.g. changes in terrestrial polar ecosystems; ice sheet and glacier mass balance; and sea-ice cover.

WG VIII/9: ARID LANDS, LAND DEGRADATION AND DESERTIFICATION

Chair

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WG VIII/9 Terms of Reference

- Integrate remote sensing data, in-situ and other measurements into a GIS domain to monitor and facilitate study and research of: Dry and arid lands; spatial and temporal environmental changes in the arid environment; and Processes of land degradation and desertification,
- Conduct quantitative assessments of soil, rocks and organic matter from spectral measurements and contribute to the establishment of desertification indicators such as the SPAC (soil, plant, atmosphere, climate) and other concepts,
- Implementation of remote sensing data and GIS methodologies in support of: Sustainable development in arid lands,
- Generating alternate scenarios to facilitate monitoring and management of arid and dry lands; and for land resources assessment for fighting land degradation and desertification,
- Interact and cooperate with the International Geomorphological Association, The IGU Commission on Arid Lands (COMLAND) and other Interest groups and International bodies interested in arid lands, land degradation and desertification.

WG VIII/10: PRECISION FARMING AND SUSTAINABLE FOOD PRODUCTION

Chair

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WG VIII/10 Terms of Reference

- Protocols and methodologies to efficiently and economically provide satellite and aircraft based inputs to monitor crop vigor, diseases, and stresses for making spatial and temporal agricultural decisions that affect the security, quality, and profitability agricultural production.
- Integration of environmental parameters of agricultural production into GIS framework that allows for utilization of space-based inputs.
- The use of active sensors to evaluate and monitor biological and physical processes, important in agricultural management.
- Collaborate with industry, farming cooperatives, consultants and other end users to define real-time information needs that will enhance the decision making process and encourage further development of technologies.
- Collaborate with WG VIII/11 to improve analytical techniques and with international precision agriculture groups to sponsor workshops.

WG VIII/11 SUSTAINABLE FOREST AND LANDSCAPE MANAGEMENT**Chair****Barbara Koch**

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WG VIII/11 Terms of Reference

- Further the automatization of forest information extraction from spectral imagery through improvement of procedures and models for inventorying and monitoring of forest resources, timber stock and biomass
- Study and promotion of forest biodiversity and sustainable management applications in respect to the convention on biodiversity with the amendments made at the Gothenburg and Johannesburg meetings
- Apply remote sensing techniques to support forest management tasks using forests as source for renewable energies
- Further development and implementation of algorithms to extract forest and other landscape information from airborne laser scanners and digital cameras data
- Join other ISPRS Working Groups in supporting actions to promote space segments focused on applications like forestry and agriculture
- Liaise with International Union of Forest Research Organizations (IUFRO), EARSeL (Forestry Group) EC working group on Future Needs of Research Infrastructures in Environmental Sciences and ICORSE

WG VIII/12 GEOLOGICAL MAPPING, GEOMORPHOLOGY AND GEOMORPHOMETRY**Chair****Benoît Deffontaines**

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WG VIII/12 Terms of Reference

- Further the implementation of multispectral and hyperspectral remote sensing and their integration

into Spatial Information Systems for: Geological mapping; Establishment of Aged and facies geological and structural data bases; Advanced 3-Dimensional geological mapping

- Implementation of remote sensing data and spatial technology in support of studies such as: erosion processes (mountainous areas, tropical areas, arid and semi-arid soils); Littoral evaluation (temperate, tropical areas); Neotectonics; Dune stabilization and Motion (process, kinetics); and other geomorphological research

- Adoption of spectroscopy applications for mineralogical mapping

- Implementation of algorithms and methodologies to study and define bias-corrected parameters of remotely sensed observations (e.g. BRDF, physical and chemical crust, dust, structural and optical properties, etc.)

- Integrating and implementing remote sensing data into geomorphometry applications to visualize and represent: Digital terrain, surface and elevation models; Drainage networks; Hydrological network components; Neotectonics; Slips; Strikes; Plates; and other static and dynamic geological, topographical and geomorphological phenomena, objects and features.