ISPRS Technical Commission VII Symposium

Contributions in this colour indicate changes since the publication of the first issue of the Programme Booklet (=printed version) PLEASE NOTE XXXX MONDAY, 5 July 2010 08:00 - 18:00 El Aula Registration 09:00 - 10:30 El 7 **OPENING SESSION** Welcome Address by the Symposium Chairman (Wolfgang Wagner) Welcome Address by the President of ISPRS (Orhan Altan) Presentation of the ISPRS Student Consortium (Cemal Özgül Kivilcim) 09:30 - 10:00 Recent Advances in Local and Global Environmental Remote Sensing (Menzel et al. (W. Paul Menzel)) 10:00 - 10:30 Assimilation of satellite data into land surface models (Shaun Quegan) 10:30 - 11:00 FI Aula Coffee Break 11:00 - 12:45 EI 7, EI 8, EI 9 ORAL SESSION 1.1 - 1.3 FI9 FI7 Remote Sensing Applications 1 Data Fusion and Data Assimilation Lidar and Laser Scanning 1 Chair: Klaus Steinnocher, Co-Chair: Christoph Aubrecht Chair: Jixian Zhang, Co-Chair: John van Genderen Chair: Juha Hyyppä, Co-Chair: Bernhard Höfle 11:00 - 11:15 Observing stress of artificial night lighting on marine Fusion of optical and radar remote sensing data: Munich city Automatic detection of buried channel deposits from dense example (Palubinskas & Reinartz; Gintautas Palubinskas) ecosystems - A remote sensing application study (Aubrecht & laser altimetry data (Possel & al.; Roderik C. Lindenbergh) al.; Christoph Aubrecht) 11:15 - 11:30 Retrieval of biophysical vegetation products from rapideye Fusion of ALS Point Cloud Data with High Precision Surveying Comparison of terrestrial laser scanner and synthetic aperture imagery (Vuolo & al.; Katja Richter) (Data Wehr & al.; Aloysius Wehr) radar data in the study of forest defoliation (Kaasalainen & al.: Sanna Kaasalainen) 11:30 - 11:45 Built -up areas density mapping from satellite images by Fusion of ascending and descending polarimetric SAR data for Terrain echo probability assignment based on full-waveform morphological granulometries (Kemmouche & al.: Akila color orthophoto generation (Zhang & al.: Jixian Zhang) airborne laser scanning observables (Mücke & al.: Werner Kemmouche) Pansharpening -- Relating Quantitative Quality Measures to A Wavelet-base method in filtering of airborne Laser scanning 11:45 - 12:00 Remote Sensing, Geographic Information Systems and Shannon's Entropy: Measuring Urban Sprawl in a Mountainous Impact on Results of Subsequent Processing Steps (Uwe data (Grzegorz Jozkow) Environment (Verzosa & Gonzalez: Loureal Camille Weidner) Verzosa) 12:00 - 12:15 Estimating sub-pixel to regional winter crop areas using neural The registration of 3-D model and 2-D image using point and The Light Fantastic: Using airborne lidar, in archaeological nets (Atzberger & Rembold: Clement Atzberger) line features (Teo & Chen: Tee-Ann Teo) survev (Simon Crutchlev) 12:15 - 12:30 Fusing Earth Observation with Local-level Health Data in a Spatio-Temporal Characterization of Aerosols through Active Comparison of grid-based and segment-based estimation of Virtual Globe Platform for Strengthening Public Health Use of Data from Multiple Sensors (Obradovic & al.: Zoran forest attributes using airborne laser scanning and digital aerial Capacity in Kisumu, Kenya (Seaguist & al.; Jonathan imagery (Tuominen & Haapanen; Sakari Tuominen) Obradovic) Seaquist) 12:30 - 12:45 Discussion Discussion Discussion 12:45 - 14:00 Lunch Break

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14:00 - 15:45	El 7, El 8, El 9			ORAL SESSION 2.1 - 2.3	
		EI 7 Remote Sensing Applications	2	EI 8 Change Detection and Process Modelling	EI 9 Lidar and Laser Scanning 2
		Chair: Clement Atzberger, Co-Chair: Bal		Chair: Qiming Zhou, Co-Chair: Manos Baltsavias	Chair: Sanna Kaasalainen, Co-Chair: Uwe Stilla
14:00 - 14:15		Remote Sensing and GIS in Inflow Estimation. Reservoir, Philippines Experience (Sarmiento M. Gonzalez)	•	Assessment system of GIS-objects using multi-temporal imagery for near-realtime disaster management (Frey & Butenuth; Daniel Frey)	ALTM ORION: Bridging conventional LIDAR and full waveform digitizer technology (Ussyshkin & Theriault; Valerie Ussyshkin)
14:15 - 14:30		Efficiency of texture measurement from two op improved biomass estimation (Nichol & Sarke		Mapping the deformation of man-made linear features using dinsar technique (Wu & al.; Hongan Wu)	Radiometric calibration of Full-Waveform Airborne Laser Scanning Data based on natural surfaces (Lehner & Briese; Hubert Lehner)
14:30 - 14:45		Land Border Monitoring with remote sensing to (Malinowski & Bielinska; Radoslaw Malinows	•	Automatic 3D Change Detection based on optical satellite stereo imagery Tian & al. (<i>Jiaojiao Tian</i>)	Urban vegetation detection using high density full-waveform airborne LiDAR data - Combination of object-based image and point cloud analysis (Höfle & Hollaus; Bernhard Höfle)
14:45 - 15:00		Mapping stream bank condition from airborne spatial resolution image data in a temperate ruenvironment, Australia (Johansen & al.; Kasp	ural-urban	Sub-pixel precision image matching for displacement measurement of mass movement using normalised cross-correlation (Debella-Gilo & Kääb; Misganu Debella-Gilo)	Evaluation of a laser Mobile Mapping System for monitoring sandy coasts (Bitenc & al.; Maja Bitenc)
15:00 - 15:15		Quantitative Prognosis of Oil and Natural Gas (Vostokov & al.; Anatoliy Vostokov)	Fields	Characterisation of long-term Vegetation Dynamics for a semi- arid wetland using NDVI time series from NOAA-AVHRR <i>(Ralf Seiler)</i>	Data driven alignment of 3D building models and digital aerial images (Jung & al.; Costas Armenakis)
15:15 - 15:30		Mountains' Peaks Parameterisation and Deter (Tomaž Podobnikar)	rmination	Targeted Change Detection: A Novel Sensor-Independent Partially-Supervised Approach (Fernàndez-Prieto & Marconcini; Mattia Marconcini)	Tree Species Detection using full waveform LIDAR data in a complex forest (Gupta & al.; Sandeep Gupta)
15:30 - 15:45		Discussion		Discussion	Discussion
15:45 - 16:15	El Aula	Coffee Break			
16:15 - 17:45	Prechtlsaal		Please refer t	POSTER SESSION (Main Building, Karlsplatz 13) to the floor plan in Prechtlsaal to find the respective board for a p	poster number
		Poster #		Title	Authors
		Change detection and proce			
				detection of remote sensing images	Zhang (Baoming Zhang)
				analysis approach for disaster applications EOS/MODIS data using decision tree approach	Tomowski & al. (Daniel Tomowski) Sun & Yu (Donglian (Lillian) Sun)
		S	•	ng bi-temporal aerial photographs	Hyvönen & al. (Pekka Hyvönen)
		3	•	change using multi-temporal satellite images	Zhou & Sun (Qiming Zhou)
		3 1 1 1 1 1 1 1		ng and GIS technology (Case study: Can Gio district, Ho Chi	Hoa Binh (Truong Thi Hoa Binh)
			an Land Cover Ch	nange in Setúbal and Sesimbra, Portugal	Araya (Yikalo Araya)
					Brook & Ben-Dor (Anna Brook)
		- Contract of the contract of	or Monitoring Cha	nge in Vegetation Phenology and Disturbance in Queensland,	Bhandari & al. (Santosh P. Bhandari)
				the state of the s	Debella-Gilo & Kääb (Misganu Debella-Gilo)
		CHGD-138 Sub-pixel precision algorithms	s for normalised c	ross-correlation based image matching of mass movements	Debella-Gilo & Naab (Wilsyanu Debella-Gilo)
		CHGD-183 Change detection for building			Chen & al. (Liang-Chien Chen)

CHGD-249 CHGD-262	TerraSAR-X based Map to Image Change Detection The aerial photos to detect changes in the landscape affected by black coal deep mining	von Poncet & al. (Felicitas von Poncet) Mulkova & Popelkova (Monika Mulkova)
CHGD-333	VHR-Imagery Change Detection using Land Use Data and Histogram Analysis	van der Sande & al. (Corne van der Sande)
CHGD-339	Monitoring of beaches and sand dunes using digital aerial photography with direct georeferencing	Gonçalves & al. (Jose Gonçalves)
CHGD-393	A spatial statistics approach to land use cover change modeling	Simões Penello Meirelles & al. (Margareth Simões Penello Meirelles)
	Lidar and laser scanning	
LIDR-041	True Orthophoto Creation Through Fusion of LiDAR Derived Digital Surface Model and Aerial Photos	Kato & al. (Akira Kato)
LIDR-042	The effect of biomass and scanning angle on the laser pulse transmittance to the ground	Ahokas & al. (Eero Ahokas)
LIDR-125	Development of Vegetation Structure Inputs From ICESat, SRTM and MODIS Satellite Data for a Mixed Canopy Dynamic Global Terrestrial Ecosystem Model	Ni-Meister (Wenge Ni-Meister)
LIDR-170	DEM generation from airborne LiDAR data by an adaptive dual-directional slope filter	Wang & Tseng (Cheng-Kai Wang)
LIDR-180		Mustafa & Amhar (Adi Junjunan Mustafa)
LIDR-190	Terrain roughness parameters from full-waveform airborne LIDAR data	Hollaus & Höfle (Markus Hollaus)
LIDR-193	Estimating canopy height with small footprint Lidar and field measurements: a tropical challenge	Lobo & Soto (Elena Lobo)
LIDR-213	Self-calibration and evaluation of the Trimble GX terrestrial Laser scanner	Chow & al. (Jacky Chow)
LIDR-214	Indoor targetless terrestrial Laser scanning	Chow & al. (Jacky Chow)
LIDR-230		Aktaruzzaman al. (MD Aktaruzzaman)
LIDIT 200	Model Urban Flooding.	, manazzanan an (MD) manazzanan
LIDR-232		Krzystek & al. (Josef Reitberger)
LIDR-251		Aubrecht & al. (Christoph Aubrecht)
LIDR-280	Correction of the incretitudes of measured points by Laser scanning on the physical surface	Temba (Plinio Temba)
LIDIT 200	Contestion of the informations of measured points by Laser scarning of the physical statute	Terriba (Timio Terriba)
LIDR-305	A method of building planes extraction from Lidar point clouds	Li & al. (Jingmei Li)
LIDR-310	· ·	Lin & al. (Man-Chia Hsu)
LIDR-319	Which are the nearest neighbors in k-nn-based ALS inventories	Haapanen & Tuominen (Reija Haapanen)
LIDR-390	Change detection of building footprints from airborne laser scanning acquired in short time intervals	Rutzinger & al. (Michael Vetter)
LIDIT 000	Microwave remote sensing	Traceinger & di. (Wildinger Volter)
MWAV-046	Airborne Doppler navigation system application for measurement of the water surface backscattering	Nekrasov (Alexey Nekrasov)
	signature	
MWAV-049	Spaceborne altimeter potential possibilities on sea surface significant wave height measurements	Grishechkin & Baskakov (Boris Y. Grishechkin)
MWAV-052		Liu (Winmay Liu)
MWAV-089	Land cover identification using polarimetric SAR images	Kourgli & al. (Assia Kourgli)
MWAV-090	SAR stereo-mapping based on DEM	Yang (Shucheng Yang)
MWAV-091	A framework of polarimetric SAR filter based on intensity and polarimetric information	Li & al. (Pingxiang Li)
MWAV-196	The value of active microwave satellite data for monitoring high latitude environment	Bartsch & al. (Sang Eun Park)
MWAV-217	TEST 02: Testing with access restricted	Nothegger & Dorninger (Peter Dorninger)
MWAV-224	Assessment of the impact of uncertainty on modelled soil surface roughness on SAR-retrieved soil moisture	De Keyser & al. (Eva De Keyser)
	uncertainty	
	Preliminary quantitative analysis of interferometric coherence degree and number of residues in interferogram	Chang & al. (Zhanqiang Chang)
MWAV-247	Freinfillary quantitative analysis of interferometric conference degree and number of residues in interferogram	
MWAV-247	Preliminary quantitative analysis of interferometric conference degree and number of residues in interferogram	
	Simulation and analysis of the atmospheric effects on SAR interferograms	
MWAV-302	Simulation and analysis of the atmospheric effects on SAR interferograms	Abdelfattah (Riadh Aabdelfattah)
MWAV-302 MWAV-326	Simulation and analysis of the atmospheric effects on SAR interferograms The study of ground subsidence and uplift in Orumieh Lake, northwest Iran, using SAR Interferometry	Abdelfattah (Riadh Aabdelfattah) Hosseini & Abdolmaleki (Siavash Hosseini)
MWAV-302 MWAV-326 MWAV-350	Simulation and analysis of the atmospheric effects on SAR interferograms	Abdelfattah (Riadh Aabdelfattah)
MWAV-302 MWAV-326 MWAV-350	Simulation and analysis of the atmospheric effects on SAR interferograms The study of ground subsidence and uplift in Orumieh Lake, northwest Iran, using SAR Interferometry A Brief History of the German Commercial Spaceborne Radar Activities	Abdelfattah (Riadh Aabdelfattah) Hosseini & Abdolmaleki (Siavash Hosseini) Weber (Marco Weber)
MWAV-247 MWAV-302 MWAV-326 MWAV-350 MWAV-359 MWAV-400	Simulation and analysis of the atmospheric effects on SAR interferograms The study of ground subsidence and uplift in Orumieh Lake, northwest Iran, using SAR Interferometry A Brief History of the German Commercial Spaceborne Radar Activities	Abdelfattah (Riadh Aabdelfattah) Hosseini & Abdolmaleki (Siavash Hosseini) Weber (Marco Weber)

	Remote sensing applications	
RSAP-065	Detection of highways in high resolution images using Mathematical Morphology techniques	Silva (Erivaldo Silva)
RSAP-068	Remotely sensed data & GIS in land resources management for regional planning over semi-arid parts of NE Brazil	Teotia (Harendra Teotia)
RSAP-069	Detection of 25-year land-cover change in a critical watershed in southern philippines using LANDSAT MSS-	Santillan & al. (Jojene Santillan)
	and ETM+ images: importance in watershed rehabilitation	
RSAP-072	Estimation of timber assortments using low-pulse ALS data	Holopainen & al. (Markus Holopainen)
RSAP-074	Maps of hydrological variables from remote sensing and a distributed water balance model	Sanchez & al. (Nilda Sanchez)
RSAP-075	Proposition routine morphological standard for detection of reservoirs in hydroeletrics	Grando Stroppa (Raquel Grando Stroppa)
RSAP-076	Analysis of spatiotemporal variation of NDVI derived from TM and MODIS images	Lei & Bian (Shaogang Lei)
RSAP-077	PM MAPPER - an optical multispectral data processing application for aerosol and air quality fields estimation	Nguyen & al. (Thi Nhat Thanh Nguyen)
RSAP-079	A method for robust extraction of control points on high-resolution satellite images	González & al. (Vicente Arévalo)
RSAP-080	Modeling of chlorophyll concentration for Novosibirsk reservoir (South of the West Siberia)	Kovalevskaya & al. (Nelley Kovalevskaya)
RSAP-081	Using remote sensing products for environmental analysis in South America	Shimabukuro & al. (Yosio Edemir Shimabukuro)
RSAP-082	Impacts of underground coal mining on land eco-environment under the context of desert by means of remote sensing and GIS	Bian (Zhengfu Bian)
RSAP-093	Monitoring impervious surface sprawl in shanghai using tasseled cap transformation of LANDSAT data	Zhang & Ban (Qian Zhang)
RSAP-134	The role of remote sensing in fighting against terrorism- A case of Pakistan	Asmat (Ali Asmat)
RSAP-135	NDVI (MODIS sensor) response to interannual variability of rainfall and evapotranspiration in a soybean producing region, southern Brazil	Giarolla & al. (Angelica Giarolla)
RSAP-136	Flooding of Cities: A RS and Approach	Vyas (Anjana Vyas)
RSAP-137	Integrated Land Resources Planning Using Remote Sensing and GIS: Case studies from Haryana State, India	Chaudhary (Bhagwan Singh Chaudhary)
RSAP-142	The use of aerospace photographies and remote sensing data in cartography	Gojamanov (Magsad Gojamanov)
RSAP-143	15 years of urban and regional applications of VHR imagery in Poland	Lach (Robert Lach)
RSAP-144	Evaluation of urban sprawl using remote sensing and GIS	Omolere (Sesan Omolere)
RSAP-172	Identification of beach features/patterns through artificial neural networks techniques using IKONOS data	Teodoro & al. (Ana Teodoro)
RSAP-175	Identification of historical land use by the help of aerial photography	Zdimal (Vaclav Zdimal)
RSAP-189	Identifying the Poor in the Cities - How can Remote Sensing help to profile poverty (slum dwellers) in megacities?	Netzband (Maik Netzband)
RSAP-197	Hydrological Simulation of Mahanadi River Basin and Impact of land use / land cover change on surface runoff using a macro-scale hydrological model	Dadhwal & al. (VK Dadhwal)
RSAP-200	Time series satellite imagery analysis for drought hazard assessment and environmental challenges of Hamoun Desert Lake in Sistan region -Iran	Sharifikia (Mohammad Sharifikia)
RSAP-208	Recognition of winding displacements for steel coils via laser light section technique	Hölzl & al. (Patrick Hölzl)
RSAP-231	Earth observation for monitoring conflict resources in the Democratic Republic of the Congo-	Kranz & Schoepfer (Olaf Kranz)
RSAP-253	Disaster Monitoring and Management by the Unmanned Aerial Vehicle Technology	Chou & al. (Ying Chih Chen)
RSAP-272	An insight of using remote sensing technique on water resources management	Farid & al. (Alireza Farid)

		RSAP-277	Envirnomental impact assessment using Neural Network Model: A case study of the Jahani ,konarsiah and Kohe Gach salt plugs, SE Shiraz, Iran	Tayebi & al. (Mohammad Hasan Tayebi)	
		RSAP-279	Passive microwave soil moisture evaluations by ground based measurements in Korea	Choi & al. (Minha Choi)	
		RSAP-303	Fusion of Multi-modal and Multi-temporal Satellite Data for Forest Management	Thiele & al. (Antje Thiele)	
		RSAP-307	Application of multi-spectral remotely sensed imagery in agriculture	Kokhan (Svitlana Kokhan)	
		RSAP-349	Condition of quasi natural area and its environment in long term changes - remote sensing and GIS assessment in Great plain, Hungary	Kovács (Ferenc Kovács)	
		RSAP-356	Estimating scaled cloud optical thickness from SEVIRI, for air quality research, by implementing a semi- analytical cloud retrieval algorithm	Pandey & al. (Praveen Pandey)	
		RSAP-368	3D city wide mapping of New Delhi- End of an era of Mapping Restrictions	Upadhyaya (Alok Upadhyaya)	
		RSAP-384	Studying Bio-Environmental Potentials of Kusalan Area, Based on IUCN criterions, using RS and GIS technologies	Oladi & Ahsani (Jafar Oladi)	
		RSAP-387	When remote sensing went alpine - the 10 international HMRSC symposia 1990-2008	Buchroithner (Manfred Buchroithner)	
		RSAP-388	Comparison of the interpolation methods for creating the water surface model (WSM) and underwater digital terrain model (UDTM) using airborne Lidar hydrography (ALH) data	Najibi & Abedini (Abbas Abedini)	
		RSAP-398	More than 150 years of remote sensing the forest in Hungary	Király (Géza Király)	
18:00 - 23:00	Courtyard and		Ice Breaker Party		
	Prechtlsaal		(Main Building, Karlsplatz 13)		
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08:00 - 18:00	El Aula	Registration				
08:30 - 10:15	El 7, El 8, El 9		ORAL SESSION 3.1 - 3.3			
		EI 7 Multi-spectral and Hyperspectral Remote Sensing 1 Chair: Werner Schneider, Co-Chair: Wouter Dorigo	EI 8 Land Cover Classification 1 Chair: Yun Zhang, Co-Chair: Peijun Li	EI 9 Microwave Remote Sensing 1 Chair: Michele Crosetto, Co-Chair: Annett Bartsch		
08:30 - 08:45		Validation of the radiometric processing chain of the Leica ADS40 airborne photogrammetric sensor (Markelin & al.; Lauri Markelin)	Texture analysis to improve supervised classification in IKONOS imagery (Tassetti & al.; Anna Nora Tassetti)	Land cover identification using polarimetric SAR images (Kourgli & al.; Assia Kourgli)		
08:45 - 09:00		Four reduced-reference metrics for measuring hyperspectral images after spatial resolution enhancement (Qian & Chen; Shen-En Qian)	Automated Extraction of Plantations from Orthophotos Using a Level Set Based Segmentation Method (Vogt & al.; Karsten Vogt)	Tidal wetland monitioring using polarimetric synthetic apertur radar (Park & al.; Sang-Eun Park)		
09:00 - 09:15		True Orthophoto Creation Through Fusion of LiDAR Derived Digital Surface Model and Aerial Photos (Kato & al.; Akira Kato)	Classification of settlement areas in remote sensing imagery using conditional random fields (Hoberg & Rottensteiner; Thorsten Hoberg)	The capabilities of TerraSAR-X imagery for retrieval of forest parameters (Perko & al.; Roland Perko)		
09:15 - 09:30		Retrieval of Vegetation Biochemicals Using a Radiative Transfer Model and Hyperspectral data (Darvishzadeh & al.; Roshanak Darvishzadeh)	Development of a supervised software tool for automated determination of optimal segmentation parameters for eCognition (Zhang & al.; Yun Zhang)	Woody vegetation class extraction in savanna woodlands using quadpol ALOS PALSAR data (Paradzayi & al.; Charle Paradzayi)		
09:30 - 09:45		Use spectral derivatives for estimating canopy water content (Jan Clevers)	Land Cover and Land Use classification assessment for a creation of a National Mapping Agency framework (Sanchez Hernandez & Hart; Carolina Sanchez Hernandez)	The Remote Sensing in Low Atmosphere Complicated by the Nanoparticles Systems (<i>Uvarova & al.; Tatiana Kazarova</i>)		
09:45 - 10:00		An Investigation on the Use of the Independent Component Analysis (ICA) Techniques for Elimination of the Changes of the Unwanted Lighting Conditions of Images (Dogan & Altan; Sedat Dogan)	Semiautomatic classification of tree species by means of multi- temporal airborne digital sensor data ADS40 (Waser & al.; Lars Waser)	Image Texture Preservation in Speckle Noise Suppression (Shamsoddini & Trinder; Ali Shamsoddini)		
10:00 - 10:15		Discussion	Discussion	Discussion		
10:15 - 10:45	El Aula	Coffee Break				
10:45 - 12:30	El 7, El 8, El 9		ORAL SESSION 4.1 - 4.3			
10.40	217, 210, 213	EI 7 Multi-spectral and Hyperspectral Remote Sensing 2 Chair: Eyal Ben-Dor, Co-Chair: Nicolas Paparoditis	EI 8 Land Cover Classification 2 Chair: Paul Aplin, Co-Chair: Josef Jansa	EI 9 Microwave Remote Sensing 2 Chair: Uwe Sörgel, Co-Chair: Sang-Eun Park		
10:45 - 11:00		Radiometric calibration for Digital Aerial Mapping Cameras (<i>Klaus Neumann</i>)	Automatic Quality Control of Cropland and grasland GIS objects using IKONOS Satellite Imagery (Helmholz & al.; Petra Helmholz)	TerraSAR-X Stereo Digital elevation models for complex terrain conditions in alpine regions and its suitability for orthorectification purposes of optical and SAR imagery (Kiefl al.; Nadine Kiefl)		
11:00 - 11:15		Development of quality layers for airborne hyperspectral imagery and end-to-end water and soil products (HYQUAPRO) (Reusen & al.; Ils Reusen)	Investigating super-resolution analysis and scale and time of observation for characterising bracken (Pteridium aquilinum) distributions (Aplin & Holland; Paul Aplin)	Stereo radargrammetry in South-East Asia using TerraSAR-> stripmap data (He & al.; Timo Balz)		

11:15 - 11:30			anagement in broad acre wheat (Devadas & al.;	Deriving water fraction and flood map with the EOS/MODIS data using regression tree approach (Sun & Yu; Donglian Lillian Sun)	Measurement of Long Term Deformation in the Metro Manila, the Philippines (<i>Tomonori Deguchi</i>)	
11:30 - 11:45		calibrated imag	anisotropy of forest tress in radiometrically ges of an airborne line sensor - implications to ication (Korpela & Rohrbach; Ilkka Korpela)	Multitemporal RADARSAT-2 polarimetric SAR data for urban land-cover mapping (Niu & Ban; Yifang Ban)	Active and passive microwave remote sensing of springtime near-surface soil thaw events at middle latitudes (Han & al.; Lijian Han)	
11:45 - 12:00			estriping Algorithm for Imaging Spectrometer & al.; Yousef Rezaei)	Weakly Supervised Polarimetric SAR Image Classification with Multi-modal Markov Aspect Model (Yang & al.; Wen Yang)	Simulation assisted high-resolution PS-InSAR analysis (Schunert & al.; Alexander Schunert)	
12:00 - 12:15				Urban impervious surface extraction from very high resolution imagery by One-Class Support Vector Machine (Li & al.; Peijun Li)	Topographic estimation by TERRASAR-X (Sefercik & Sörgel; Uwe Sörgel)	
12:15 - 12:30			Discussion and Announcements	Discussion and Announcements	Discussion and Announcements	
12:30 - 14:00		Lunch Break				
14:00 - 15:30	Prechtlsaal			POSTER SESSION (Main Building, Karlsplatz 13)	(Main Building, Karlsplatz 13)	
			Please refer t	to the floor plan in Prechtlsaal to find the respective board for a p		
		Poster #		Title	Title Authors	
			Data fusion and data assimilation			
		DFUS-013	Pixel level fusion methods for remote sensing in		Yang (Jinghui Yang)	
		DFUS-017	A comparative case of study of image sharpeni		Rodríguez Galiano & al. (Victor F Rodríguez Galiano)	
		DFUS-018	Integration of contextual information for the tranapplication to detection and classification of tree	nsfer of the beliefs in an information sources fusion systemes crowns	Ben Dhiaf & al. (Zouhour Ben Dhiaf)	
		DFUS-109	Super resolved remote sensing by fusion of mu	ılti spectral and spatial data	Gur & al. (Eran Gur)	
		DFUS-266	Fusion of Pan and Multispectral Images based	on Nonsubsampled Contourlet Transform	Jia & Xiao (Yonghong Jia)	
		DFUS-269	Evaluation criteria for image fusion performance	• • • • • • • • • • • • • • • • • • • •	Zeng & Zhang (Yu Zeng)	
		DFUS-298	An invented approach in image registration "ne		Homainejad (Amir Saeed Homainejad)	
		DFUS-299		iques for SPOT5 data: An Example from Istanbul	Bektas Balcik & Goksel (Cigdem Goksel)	
		DFUS-335	3D Building Reconstruction using Digital Map a		Cho & Park (Woosug Cho)	
		DFUS-345	Quality Assessment Of Image fusion Technique study: IRS-P5 and IRS-P6 satellite images)	es For Multisensor High Resolution Satellite Images (case	Fallah Yakhdani & Azizi (Mohammad Fallah Yakhdani)	
		DFUS-351	3D Building Reconstruction using Digital Map a	and Airborne Digital Camera Imagery	Choi (Myung-Jin Choi)	
		DFUS-395	A Comparative Study of Global and Local Trans Registration	sformation Functions For High Resolution Satellite Image	Fallah Yakhdani & Azizi (Mohammad Fallah Yakhdani)	
		DFUS-407	Assessment of very high resolution satellite dat	a fusion techniques for landslide recognition	Santurri & al. (Leonardo Santurri)	
		DFUS-408	Co-calibration of the visual and near-infrared da MODIS and Meteosat MSG images	ata and a common GN vegetation index for the AVHRR/3,	Pásztor & Bognár (Szilárd Pásztor)	

	Geometric modeling	
GEOM-020	Precise Processing of SPOT-5 HRS and IRS-P5 Stereo Imagery For the Project of West China Topographic	Zhang & Zhang (Li Zhang)
CEGII 020	Mapping at 1:50,000 Scale	Litary & Litary (El Litary)
GEOM-111	Accurate Pose Estimation of Uncalibrated Camera for Building Geometric Modeling	Xie & al. (Wenhan Xie)
GEOM-112	Lunar Geomorphy 3D Visualization Method	Yang & al. (Zhou Yang)
GEOM-176	Automatic simulation of Images and Auxiliary data for programming and receiving loop Validation of the	Poncet & Vadon (Maurice Poncet)
	VENuS Image Ground Segment	,
GEOM-182	Collocation-aided adjustment of heterogeneous models for satellite images	Chang & al. (Wen-Chi Chang)
GEOM-221	A New Rigorous Imaging Equation for Radar Imagery Base on External Orientation Elements	Cheng & al. (Chunquan Cheng)
GEOM-347	Surface Structure Algorithm of 3D Building Model	Song & Wei (Yanfeng Wei)
GEOM-362	A DBMS-based 3D Topology Model for Laser Radar Simulation	Jun (Chulmin Jun)
GEOM-370	Modeling of a single shrub from TLS data using stratified convex hull algorithm	Tymkow & Borkowski (Przemyslaw Tymkow)
GEOM-378	Self calibration of small and medium format digital cameras	Moe & al. (Mike Benson)
	Image processing and pattern recognition	
IMGP-021	Multistage algorithm for multispectral remote sensing images lossless compression	Zamyatin (Alexander Zamyatin)
IMGP-023	Road extraction from ALOS images using mathematical morphology	Pires de Castro & Silva Centeno (Fabiana Silva Pires de
		Castro)
IMGP-031	An adaboost-based iterated MRF model with linear target prior for synthetic aperture radar image classification	Su & al. (Xin Su)
IMGP-032	Empirical comparison of machine learning techniques for object-based image classification with application to	Li & al. (Yuee Liu)
	vegetation management in power line corridors	
IMGP-085	Analysis of spatial and temporal evolution of the NDVI on vegetated and degraded areas in the central	Alatorre & Beguería (Luis Carlos Alatorre)
	Spanish Pyrenees	
IMGP-113	Efficient smoothing of NDVI time series using the Whittaker smoother	Atzberger & Eilers (Paul H.C. Eilers)
IMGP-114	Analysing the facial morphology with a three-dimensional geometrical features approach	Vezzetti & al. (Enrico Vezzetti)
IMGP-115	Effect of Ground Control points Location and Distribution on Geometric Correction Accuracy of Remote	Fawzy ELtohamy & Hamza (Esam Hassan Hamza)
	Sensing Satellite Images	
IMGP-117	Classification of clouds with object oriented technique	Azari & al. (Alireza Shakiba)
IMGP-118	Analyzing the Directional Relationships between Two Objects with Complex Shapes by Geo-info Graph Spectrum	Duan & al. (Minyan Duan)
IMGP-164	Accuracy of 3D face recognition frameworks	Caprioli & al. (Mauro Caprioli)
IMGP-187	Assessment of biophysical structure of riparian zones based on segmentation method, spatial knowledge and	Alencar-Silva & Maillard (Thiago Alencar-Silva)
	texture analysis	3
IMGP-256	Automatic Mosaicing Method for Large Block of Orthoimages	Ai & al. (Haibin Ai)
IMGP-273	Automatic Building Extraction from High Resolution Images Using Active Contours and Shape Prior	Yari & al. (Salman Ahmadi)
	Knowledge	
IMGP-300	Swarm like autonomous agents for seed regions growing segmentation of digital image	Samadzadegan & al. (Nima Zarrinpanjeh)
IMGP-313	The use of similarity images on multi-sensor automatic image registration	Gonçalves & al. (Hernâni Gonçalves)
IMGP-316	A Global Precedent Approach for Road Extraction from High Resolution Imagery	Ma & Chen (Jun Chen)
IMGP-317	Object-oriented methods for landslides detection using high resolution imagery, morphometric properties and meteorological data	Sandric & al. (Ionut Sandric)
IMGP-337	Free to Geo Stereo Mosaic Image Generation Using Video Imagery	Noh (Myung Jong Noh)
IMGP-389	The theory of computer geography	Nabiyev (Alpasha Alibek Nabiyev)
IMGP-404		Novak & al. (Jens Schickor)

	Land cover classification	
LCOV-037	High Resolution Imagery Retrieval on the Basis of Sketch-Modelling	Kovalevskaya & Boenko (Nelley M. Kovalevskaya)
LCOV-039	Farmland parcels extraction based on high resolution remote sensing images	Hu (Tangao Hu)
LCOV-086	A supervised spectral substratum classifier to classify images with fuzzy memberships	Sha & Xie (Yichun Xie)
LCOV-088	Land cover classification in Albania	Nikolli (Pal Nikolli)
LCOV-120	An assessment of the efficiency of LANDSAT, NIGERIASAT-1 and SPOT images for landuse/landcover analyses in Ekiti west area of Nigeria	Ojo & Adesina (Adebayo Gbenga Ojo)
LCOV-156	,	Bargiel & al. (Damian Bargiel)
LCOV-169	Land Cover Remote Sensing Imagery Web Retrieval in Chinese Second Round of National Land Use Inventory Program	Ning & Zhang (Xiaogang Ning)
LCOV-192	Targeted Classification of Remote-Sensing Images	Fernàndez-Prieto & Marconcini (Diego Fernàndez-Prieto)
LCOV-205	Agricultural land use mapping using very high resolution satellite images in Canary Islands	Labrador Garcia & al. (Mauricio Labrador Garcia)
LCOV-207	Mapping wetland environments in the Brazilian savannah from high resolution Ikonos image data	Barbosa & Maillard (Ivan Barbosa)
LCOV-212	Comparing information derived from Global land cover datasets with Landsat imagery for the Huambo province and Guinea-Bissau	Cabral & al. (Ana Cabral)
LCOV-225	Land use classification with high resolution satellite radar for estimating the impacts of land use change on the quality of ecosystem services	Bargiel & al. (Damian Bargiel)
LCOV-233	WinGIS - GIS software for ICT developers	Aigner & Mayer (Walter Mayer)
LCOV-244	Accuracy assessment of GlobCover, global land cover and CORINE in the Iberian penninsula	Pérez-Hoyos & García (Javier García)
LCOV-288	Radar Remote Sensing for Tropical Rainforest Assessment	Becek (Kazimierz Becek)
LCOV-329	GPS satellite monitoring of spatial and seasonal landscape use by black bears in New Jersey Bearfort mountains	Skirta & al. (Eugenia Skirta)
LCOV-332	Monitoring Rice Crop Varieties through Remote Sensing techniques	Abkar & al. (Ali Abkar)
LCOV-342	Evaluation of time series of MODIS data for transitional land mapping in support of bioenergy policy development	Zhou & al. (Fuqun Zhou)
LCOV-353	Logic based object oriented land cover classification- A case study of central Nepal	Gilani & al. (Hammad Gilani)
LCOV-363	Comparative Study of Entropy Measures for Accuracy Assessment of Sup-pixel Classification of Satellite Data	GHOSH & Mukherjee (JAYANTA KUMAR GHOSH)
LCOV-379	Application of KOMPSAT II imagery for carbon emission	Chang & al. (Eunmi Chang)
LCOV-382	Enhancing urban digital elevation models using automated comptuer vision techniques	Sirmacek & al. (Beril Sirmacek)

	Multi-spectral and hyperspectral remote sensing	
MSHY-126	Spectral unmixing of hyperspectral and multispectral remote sensing images for predictive mapping of surface	Kefale Alemie (Berhanu Kefale Alemie)
	soil organic matter	, ,
MSHY-128	Extracting olivine-rich portions of ultramafic rocks using ASTER TIR data	Gürcay (O. Bora Gürcay)
MSHY-129	Validation of a semi-automatic classification approach for urban green structure	Trier & Lieng (Øivind Due Trier)
MSHY-147	The advantages of boresight effects on the hyperspectral data analysis	Brook & Ben-Dor (Anna Brook)
MSHY-153	Spectral reflectance of rice canopy and red edge position (REP) as indicator of high-yielding variety	Abbasi & al. (Mozhgan Abbasi)
MSHY-162	Study of nature, origin, movement and extension of sand dunes by using sedimentological aspects and remote sensing techniques in Baiji area, North Iraq	Kadim & al. (Amera I. Hussain)
MSHY-177	Hyperspectral evaluation of the pear trees on the basis of the genetic collection of the different species	Tamas & Szabó (Janos Tamas)
MSHY-184	Multiresolution image fusion: Phase congruency for spatial consistency assessment	Makarau & al. (Aliaksei Makarau)
MSHY-260	Application of high resolution satellite imagery to assess storm tide-related flooding	Chaouch & al. (Naira Chaouch)
MSHY-265	Rangeland ecological site classification from Hyperion and Landsat imagery using tuned matched filtering and neural networks	Blanco & al. (Paula Daniela Blanco)
MSHY-281	Lithological mapping of the Sarduiyeh Area, SE Iranian Copper Belt, using thermal bands of the ASTER	Hosseinjani & Hashemi Tangestani (Mahdieh Hosseinjani)
MSHY-282	The Multi-sensor Land Classification System LCS: automatic multitemporal land use classification system for multi-resolution data	Beccati & al. (Alan Beccati)
MSHY-286	Classification of Hyperspectral Images using Adaptive Wavelet Neural Networks-	Hsu (Pai-Hui Hsu)
MSHY-296	Tropical Biodiversity Mapping from Hyperion Image in Bogor Indonesia	Wijanarto & Amhar (Antonius Wijanarto)
MSHY-312	A comparison of total shortwave surface albedo retrievals from MODIS and TM data	Pape & Vohland (Michael Vohland)
MSHY-320	Remote Sensing for Drought Assessment in Arid Regions (A Case Study of Central Part of Iran, Shirkooh-Yazd") "	Ebrahimi & al. (Ali Akbar Matkan)
MSHY-341	Airborne Hyperspectral Image Geo-referencing aided by High-Resolution Satellite Images	Grejner-Brzezinska & al. (Dorota Grejner-Brzezinska)
MSHY-354	Multiple scattering simulations for remote sensing of aerosol events	Mukai & al. (Sonoyo Mukai)
MSHY-369	Enhancing Urban Digital Elevation Models Using Automated Computer Vision Techniques	Sirmacek & al. (Beril Sirmacek)
MSHY-381	Water column characterization on base of HyMap airborne and RAMSES underwater spectroradiometer data of an artificial surface in Lake Starnberg	Schneider & al. (Thomas Schneider)
MSHY-383	Intercalibration of infrared window channels of polar-orbiting FY-3A instrument with AIRS/Aqua data	Jiang (Geng-Ming Jiang)
MSHY-391	Detecting Human-induced Scene Changes Using Coherent Change Detection in SAR Images	Milisavljevic & al. (Damien Closson)
MSHY-401	Evaluating the Capability of SPOT5 Data TO Monitor Pollarding Forest Areas of Northern Zagros	Bozorgnia & Oladi (Jafar Oladi)
	Operational remote sensing programs	
OPRS-059	CANASAT project: monitoring the sugarcane harvest type in the state of São Paulo, Brazil	Aguiar & al. (Daniel Alves de Aguiar)
OPRS-060	Online Monitoring of Corridor-Based Infrastructure	Ahmadi Foroushani (Mansour Ahmadi Foroushani)
OPRS-061	Canasat project: monitoring of the sugarcane cultivation area in south central Brazil	Silva & al. (Wagner Fernando da Silva)
OPRS-238	SATChMo - Seasonal and Annual Change Monitoring.	Aleksandrowicz & al. (Sebastian Aleksandrowicz)
OPRS-365	Near realtime UAV-based processing to support disaster monitor	Lu & al. (Lei Lu)
	Physical modeling and signatures	
PHYS-062	Surface temperature estimation using artificial neural network	Veronez (Maurício Roberto Veronez)
PHYS-179	A gliding window approach for the regularization of the ill-posed inverse problem	Atzberger & Richter (Katja Richter)
PHYS-328	Mountains' Peaks Parameterisation and Determination	Podobnikar (Tomaž Podobnikar)
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16:00 - 17:45	El 7, El 8, El 9		ORAL SESSION 5.1 - 5.3	
		EI 7 Operational Remote Sensing Applications Chair: Johannes Schmetz, Co-Chair: Michael Franzen	EI 8 Image Processing and Pattern Recognition 1 Chair: Jixian Zhang, Co-Chair: Qiming Zhou	EI 9 Physical Modeling and Signatures Chair: Michael Schaepman, Co-Chair: Shunling Liang
16:00 - 16:15		Core Service; First Results of the Biogeophysical Parameter	Evaluation of spectral and texture features for object-based vegetation species classification using support vector machines (Li & al.; Zhengrong Li)	An overview of two decades of systematic evaluations of canopy radiative transfer models (<i>Jean-Luc Widlowski</i>)
16:15 - 16:30		. •	Structural high-resolution satellite image indexing (Xia & al.; Gui-Song Xia)	The sensitivity of multifrequency (X, C and L-band) radar backscatter signatures to biological variables over corn and soybean fields (Jiao & al.; Xianfeng Jiao)
16:30 - 16:45		•	Theoretical frameworks of remote sensing systems based on compressive sensing (Liu & al.; Jiying Liu)	Application of photon recollision probability based forest reflectance model for boreal forest LAI retrieval (Heiskanen & al.; Janne Heiskanen)
16:45 - 17:00		* *	Urban Road Tracking by Fusion of SVDD and Region Adjacency Graphs from VHR imagery (Liu & al.; Zhengjun Liu)	Analysis of BRDF characteristics of forest stands with a digital aerial frame camera (Koukal & Schneider; Tatjana Koukal)
17:00 - 17:15		Analysis of RapidEye imagery for annual landcover mapping as an aid to European Union (EU) Common Agricultural Policy (Tapsall & al.; Kadim Tasdemir)		Small Scale Surface Roughness Effects on Longwave Thermal IR Spectra (Balick & al.; Lee Balick)
17:15 - 17:30		. ,	A review on image segmentation techniques with remote sensing perspective (Dey & al.; Vivek Dey)	Validation of the reflectance calibration of the ADS40 airborne sensor using ground reflectance measurements (Beisl & Adiguezel; Ulrich Beisl)
17:30 - 17:45		Discussion	Discussion	Discussion
18:30 - 21:30 21:00 - 23:30	Prater Prater		Conference Dinner (Schweizerhaus) Ferris Wheel (Riesenrad)	
	PLEASE NOTE	XXXX Contributions in this colour indicate changes si	nce the publication of the first issue of the Programme Booklet (=printed version) V 20100705

		WEDN	ESDAY, 7 July 2010				
08:00 - 13:30	El Aula		Registration				
08:30 - 10:15	El 7, El 8, El 9	ORAL SESSION 6.1 - 6.3					
		EI 7 Earth Observation Programmes Chair: Paul Menzel, Co-Chair: Paul Snoeij	EI 8 Image Processing and Pattern Recognition 2 Chair: Wolfgang Förstner, Co-Chair: Josef Jansa	EI 9 Geometric Modeling Chair: Norbert Pfeifer, Co-Chair: Franz Leberl			
08:30 - 08:45		Observing Weather and Climate with the Himawari Series Satellites (Kurino & Tahara; Toshiyuki Kurino)	Real-Time Image Processing for Road Traffic Data Extraction from Aerial Images (Rosenbaum & al.; Dominik Rosenbaum)	Exterior orientation of line-array CCD images based on quaternion spherical linear interpolation (Jiang & al.; Gangwu Jiang)			
08:45 - 09:00		The Utilisation of EUMETSAT Meteorological Satellites (Schmetz & al.; Johannes Schmetz)	Multistage algorithm for lossless compression of multispectral remote sensing images (<i>Alexander Zamyatin</i>)	Comparison of Error Propagation in Block Orientation: An Analytical Approach (Cothren & Schaffrin; Jackson Cothren)			
09:00 - 09:15		Prospective Space Missions with L-Band Microwave Radiometric Systems (<i>Tishchenko</i> & al.; Yuriy Tishchenko)	A New Strategy for DSM Generation from High Resolution Stereo Satellite Images Based on Control Network Interest Matching (Xiong & Zhang; Yun Zhang)	DEM generation with Radarsat-2 ultra-fine mode data using RFM (Toutin & Omari; Thierry Toutin)			
09:15 - 09:30		PLEIADES-HR Inaging system: ground processing and products performances, few months before launch (Baillarin & al.; Simon Baillarin)	Semi-automatic assessment of Norway spruce (Picea abies) in modern digital aerial photographs (Seitz & al.; Rudolf Seitz)	Towards Fully Automatic Photogrammetric Reconstruction Using Digital Images Taken From UAVs (Irschara & al.; Arnold Irschara)			
09:30 - 09:45		Sentinel-1 Performance (Snoeij & al.; Paul Snoeij)	Multitemporal fuzzy Markov chain-based classification of very high resolution images of an urban site (Costa & al.; Gilson A O P Costa)	Describing Buildings by 3-Dimensional Details Found in Aerial Photography (Meixner & Leberl; Philipp Meixner)			
09:45 - 10:00		EgyptSat-1; Three Years in Orbit: Experience in Operation and Utilization (<i>Mohamed Argoun</i>)	Change analysis with TERRASAR-X data (Weihing & al.; Diana Weihing)	A Dimension Independent Geometric Model for City Modeling (Bulbul & Frank; Andrew Frank)			
10:00 - 10:15		Discussion	Discussion	Discussion			
10:15 - 10:45	El Aula	Coffee Break					
10:45 - 12:30	El 7	CLOSING SESSION					
10:45 - 11:15		Generating 1km Land Surface Radiation product suite from MO	DIS: Algorithms and validation (Shunlin Liang)				
11:15 - 11:45		Persistent Scatterer Interferometry based on TerraSAR-X imagery: the Barcelona test area (Crosetto & al.; Michele Crosetto)					
11:45 - 12:15		Analysis of full-waveform ALS data by simultaniously acquired	TLS data: Towards an advanced DTM generation in wooded are	as (Doneus & al.; Michael Doneus)			
12:15 - 12:20 12:20 - 12:30		Outlook to ISPRS Congress 2012 (Cliff Ogleby) Closing of Symposium (Wolfgang Wagner)					
13:30 - 16:00	El 8		TC VII Board Meeting				