

JURSE 2013

Joint Urban Remote Sensing Event
April 21-23, 2013 – São Paulo, Brazil



JURSE 2013: Oral Sessions

DAY 2 - MONDAY 22/04/2013

10h50 - 12h10 SAR SPECIAL SESSION I (Auditorium São Paulo)

Chair: R. Bamler

10h50 - 11h10	Stephane Guillaso, Tech. Univ. of Berlin, Germany	Building characterization using polarimetric tomographic SAR data
11h10 - 11h30	Giampaolo Ferraioli, University of Naples, Italy	A Markovian approach for urban change detection in multitemporal complex SAR images
11h30 - 11h50	Xiao Xiang Zhu, DLR, Germany	Building façades reconstruction using multi-view TomoSAR point clouds
11h50 - 12h10	Gianfranco Fornaro, IREA-CNR, Italy	Adaptive filtering of interferometric SAR in sparsely urbanized area

10h50-12h30 LIDAR & PHOTOGRAMMETRY (Auditorium Brasil)

Chair: M. Pesaresi

10h50 - 11h10	Bhogendra Mishra, Kyoto University, Japan	Estimation of enclosure index in urban areas using airborne LiDAR
11h10 - 11h30	Georg Kuschik, DLR, Germany	Model-free dense stereo reconstruction for creating realistic 3D city models
11h30 - 11h50	Haruki Oshio, Tokyo Institute of Technol., Japan	Accuracy of external form of individual trees acquired by high-resolution airborne LiDAR
11h50 - 12h10	Aluir Dal Poz, UNESP, Brazil	Photogrammetric refinement of laser-based building roof contours
12h10 - 12h30	Dennis Dahlke, DLR, Germany	True 3D information from digital aerial images – Edge detection and adjustment from an oblique viewing multi-camera system

JURSE 2013

Joint Urban Remote Sensing Event
April 21-23, 2013 – São Paulo, Brazil



JURSE 2013: Oral Sessions

DAY 2 - MONDAY 22/04/2013

14h00 - 15h40 STUDENT CONTEST I (Auditorium São Paulo)

Chair: P. Gamba

14h00 - 14h20	Marijn Hendrickx, University of Ghent, Belgium	The use of high resolution digital surface models for change detection and view shed analysis in the urban area around the pyramids of Giza, Egypt
14h20 - 14h40	Wen Liu, Chiba University, Japan	Building height detection from high-resolution TerraSAR-X imagery and GIS data
14h40 - 15h00	Simona Verde, Univ. of Naples, Italy	Toward SAR coherence tomography for analysis of urban areas
15h00 - 15h20	Lukas Schack, Univ. of Hannover, Germany	Improving the geocoding of persistent scatterers at façades using lattice topology information
15h20 - 15h40	Bhogendra Mishra, Kyoto University, Japan	Unsupervised change detection in an urban environment using multitemporal PolSAR images

14h00-15h40 CLASSIFICATION METHODS (Auditorium Brasil)

Chair: C. Small

14h00 - 14h20	Devis Tuia, EPFL, Switzerland	Classification of urban multi-angular image sequences by aligning their manifolds
14h20 - 14h40	Martino Pesaresi, ISPRA-JRC, Italy	On the assessment of automatically processing HR/VHR imagery using low-resolution global reference data
14h40 - 15h00	Tim Voorde, Vrije Univ. of Brussels, Belgium	Mapping the uncertainty of changes in vegetation cover in and around the Brussels Capital Region
15h00 - 15h20	Ranga Vatsavai, Oak Ridge Nat. Laboratory, USA	Complex settlement pattern extraction with multi-instance learning
15h20 - 15h40	Boris Jutzi, Karlsruhe Inst. of Techn., Germany	Fast and accurate point cloud registration by exploiting inverse cumulative histograms (ICHS)

JURSE 2013

Joint Urban Remote Sensing Event
April 21-23, 2013 – São Paulo, Brazil



JURSE 2013: Oral Sessions

DAY 2 - MONDAY 22/04/2013

16h20 - 17h40 VHR SAR, INSAR & POLSAR (Auditorium São Paulo) *Chair: G. Fornaro*

16h20 - 16h40	Thomas Esch, DLR, Germany	Spatially detailed mapping of settlement patterns using SAR data of the TanDEM-X Mission
16h40 - 17h00	Giampaolo Ferraioli, Univ. of Naples, Italy	Statistical approaches for multichannel phase unwrapping
17h00 - 17h20	Corneliu Dumitru, DLR, Germany	Diversity of settlement categories in very high resolution SAR images
17h20 - 17h40	Guoman Huang, Academy of Surveying & Mapping, China	Man-made objects detection using Multi-mode X-Band PolInSAR data

16h20-18h00 FEATURE EXTRACTION & HAZARDS (Auditorium Brasil) *Chair:D.Tuia*

16h20 - 16h40	Jiaojiao Tian, DLR, Germany	Building damage assessment after the earthquake in Haiti using two post-event satellite stereo imagery and DSMs
16h40 - 17h00	Maciel Zortea, Computing Center Oslo, Norway	Semi-automatic detection of rainfall-triggered landslides in segmented optical satellite images
17h00 - 17h20	Benjamin Bechtel, Univ. of Hamburg, Germany	Downscaling of diurnal land surface temperature cycles for urban heat island monitoring
17h20 - 17h40	Otto Rotunno, Fed. University of Rio, Brazil	Algorithms implementation for land surface temperature estimation based on Landsat data as an indicator of urban heat island
17h40 - 18h00	Angela Blanco-Vogt, Tech. Univ. of Dresden, Germany	Building extraction from remote sensing data for parameterising a building typology: a contribution to flood vulnerability assessment

JURSE 2013

Joint Urban Remote Sensing Event

April 21-23, 2013 – São Paulo, Brazil



JURSE 2013: Oral Sessions

DAY 3 - TUESDAY 23/04/2013

10h50 - 12h30 STUDENT CONTEST II (Auditorium São Paulo)

Chair: C. Jürgens

10h50 - 11h10	Kanika Goel, DLR, Germany	Advanced stacking of TerraSAR-X and TanDEM-X data in complex urban areas
11h10 - 11h30	Sven Vanderhaegen, Vrije Univ. of Brussels, Belgium	High-resolution modeling and forecasting of sealed surface cover distribution in Flanders
11h30 - 11h50	Joachim Niemeyer, Univ. of Hannover, Germany	Classification of urban LiDAR data using Conditional Random Field and Random Forests
11h50 - 12h10	Richa Sharma, TERI Univ., India	Analyzing monthly dynamics of SUHI in Delhi using satellite information
12h10 - 12h30	Yuanyuan Wang, University of Munich, Germany	Towards TerraSAR-X street view: Creating city point cloud from multi-aspect data stacks

10h50-12h10 VHR APPLICATIONS (Auditorium Brasil)

Chair: M. Netzband

10h50 - 11h10	Daniela E-Molina, DLR, Germany	Urban area understanding based on compression methods
11h10 - 11h30	Gianni Iannelli, Univ. of Pavia, Italy	Towards a free open source software tool for human settlement detection on VHR remote sensing images
11h30 - 11h50	Emilie Hanson, Université Libre de Bruxelles, Belgium	Local authorities' obligations about monitoring of urban and green areas and contribution of VHR images: examples in France and Belgium
11h50 - 12h10	Xiaogang Ning, Acad. of Surv. & Mapping, China	Object-based city land cover classification and change analysis with multi-temporal high resolution remote sensing images in Jiangyin, China

JURSE 2013

Joint Urban Remote Sensing Event
April 21-23, 2013 – São Paulo, Brazil



JURSE 2013: Oral Sessions

DAY 3 - TUESDAY 23/04/2013

14h00 - 15h20 SAR SPECIAL SESSION II (Auditorium São Paulo) *Chair: G. Ferraioli*

14h00 - 14h20	Olivier D'Hondt, Tech. Univ. of Berlin, Germany	Geometric primitive extraction for 3D reconstruction of urban areas from tomographic SAR data
14h20 - 14h40	Gianni Lisini, University of Pavia, Italy	Urban area mapping using ASAR wide swath mode and Landsat data: a comparison on Eastern China
14h40 - 15h00	Karlus Macedo, OrbiSat Remote Sensing, Brazil	Generation of high resolution interferograms in urban areas via airborne SAR sensors
15h00 - 15h20	Xiao Xiang Zhu, DLR, Germany	Tomo-GENESIS: DLR's tomographic SAR processing system

14h00-15h40 URBAN MAPPING I (Auditorium Brasil) *Chair: D. Maktav*

14h00 - 14h20	Hannes Taubenböck, DLR, Germany	Delimiting Central Business Districts – A physical approach using remote sensing
14h20 - 14h40	Martino Pesaresi, ISPRA-JRC, Italy	Do we need a global human settlement analysis system based on satellite imagery?
14h40 - 15h00	Michael Wurm, DLR, Germany	The changing face of urban growth: An analysis using earth observation data
15h00 - 15h20	Christopher Small, Columbia University, USA	Mapping urban structure and spatial connectivity with VIIRS and OLS night light imagery
15h20 - 15h40	Thomas Esch, DLR, Germany	Exploiting earth observation in sustainable urban planning and management - the GEOURBAN Project

JURSE 2013

Joint Urban Remote Sensing Event
April 21-23, 2013 – São Paulo, Brazil



JURSE 2013: Oral Sessions

DAY 3 - TUESDAY 23/04/2013

16h20 - 17h40 DATA FUSION (Auditorium São Paulo)

Chair: X. X. Zhu

16h20 - 16h40	Simon Schuffert, Karlsruhe Inst. of Technology, Germany	An automatic data driven approach to derive photovoltaic-suitable roof surfaces from ALS data
16h40 - 17h00	Camila dos Anjos, National Inst. for Space Research - INPE, Brazil	Urban feature extraction on simulated WorldView-2 images
17h00 - 17h20	Cole Krehbiel, South Dakota State Univ., USA	Exploring MODIS Band 23 for urban remote sensing: Seasonal and view angle effects
17h20 - 17h40	Karine Adeline, University of Toulouse, France	Material reflectance retrieval in urban tree shadows with physics-based empirical atmospheric correction

16h20-17h40 URBAN MAPPING II (AuditoriumBrasil)

Chair: R. Feitosa

16h20 - 16h40	Jiaojiao Tian, DLR, Germany	Fusion of multi-spectral bands and DSM from Worldview-2 Stereo imagery for building extraction
16h40 - 17h00	Paolo Villa, National Research Council - CNR- ISTI, Italy	Anthropogenic carbon stocks analysis in sparsely urbanized areas using remote sensing: a case study
17h00 - 17h20	Maik Netzband, Ruhr-University Bochum, Germany	Urban change detection by means of multitemporal satellite imagery – the case of the Indian Mega-City Hyderabad
17h20 - 17h40	Gilson Costa, Pontifical Catholic Univ. of Rio, Brazil	An object-based image analysis approach based on independent segmentations