Programme of the Spatial Accuracy 2018

		Monday 21 May				
08:00-18:00	Registration Hall of the second region of IGSNRR					
18:00-19:30	Welcome Reception Room: IGSNRR 2602					
07:30-16:00	Tuesday 22 May					
08:30-09:00	Registration Hall of the third floor of CNCC Opening Ceremony (Chair: Yong Ge) Room: Auditorium (3 rd floor of CNCC)					
	Welcome speeches					
	х	iaohan Liao (Deputy director of IGSNRR, Profess	or)			
		of Scientific Committee, Academician of Chines	-			
	Daniel A	A. Griffith (Chair of ISARA Steering Committee, F Fenzhen Su (Director of LREIS, Professor)	Professor)			
09:00-09:20	Gro	up photo Room: Park View Foyer (3 rd floor of 0	CNCC)			
09.20-10:40	Plenary session Room: Auditorium (Session Chair: Chenghu Zhou)					
	Keynote: Latest Advances in China Beidou Satellite Navigation System – Yuanxi Yang (Academician of CAS, State Key Laboratory of Geoinformation Engineering, Xi'an, China)					
		ion Geometric Processing for Chinese Satellite	e Imagery – Jianya Gong (Academician of CAS,			
	Wuhan University, China)					
10:40-11:00	Coffee/tea break					
11.00-12:20		ary session Room: Auditorium (Session Chair:	<u> </u>			
	Keynote: Taking Advantage of System Dynamics to Improve Spatial Characterization — Jaime Gómez-Hernández; Universit València (UPV), Spain					
12:20-13:30		ramework – Xiaohua Tong (Tongji University, Ch .unch Room: Park View Foyer (3 rd floor of CNC				
13:30-15:00	•	Parallel sessions	C)			
	Uncertainty in mapping Room: 301A	Uncertainty assessment Room: 301B	Spatio-temporal modelling Room: 302A			
	Session Chairs: A-Xing Zhu and Nicholas Hamm	Session Chairs: Yongwan Chun and Jianghao Wang	Session Chairs: Wenzhong Shi and Yaolong Zhao			
	Comparing the Impact of the Mapping Error on Aggregation Methods Peijun Sun*, Russell Congalton and Yaozhong Pan * Beijing Normal University, China	Remote Sensing Accuracy and Resolution for Precision Agriculture in Small Farms, Malawi Shengpan Lin*, Brad Peter and Joseph Messina *Michigan State University, USA				
	Analysis and application of Drought Characteristics Based on Run Theory and Copula Function Xiaofeng Wang*, Yuan Zhang* and Xiaoming Feng *Chang'an University, China	The Impact of Locational Uncertainty on Local Geographic Cluster Detection: An Application to Cancer Data from Florida in 2006 to 2010 Monghyeon Lee*, Daniel A. Griffith and Yongwan Chun	Prediction of Urban PM2.5 Concentrations Using A Bayesian Spatio-Temporal Modeling Approach Qiang Pu and Eun-Hye Yoo*			
	Uncertainty Characterization for Cropland Products at the Country Level from Different Sources Jiong You*, Zhiyuan Pei and Haiqi Liu *Chinese Academy of Agricultural Engineering, China	*The University of Texas at Dallas, USA Small Area Estimation of Cancer Rates: A Case Study of Lung Cancer in Florida, 2000-2010 Lan Hu*, Yongwan Chun and Daniel A. Griffith *The University of Texas at Dallas, USA	Spatio-Temporal Difference Assessment of Urban Rainstorm Waterlogging Affected by Imperious Surface Expansion Yaolong Zhao*, Huafei Yu and Yingchun Fu *South China Normal University, China F			
	Uncertainty of Endmember on Super-Resolution Mapping Xinyan Li, Xiaodonq Li*, Yihang Zhang, Yun Du and Feng Ling *IGG, CAS, China	Constrained Total Least Squares Method with Applications in Map Generalization Yanmin Jin* and Xiaohua Tong *Tongji University, China	Daily MODIS AOD Missing Data Gaps Filling Based on Spatiotemporal Interpolation Jing Yang, <u>Maoqui Hu</u> *, Chengdong Xu and Yilan Liao *IGSNRR, CAS, China			
	Robust Variogram Estimation Combined with Isometric Log-Ratio Transformation for Improved Accuracy of Soil Particle-Size Fraction Mapping <u>Wenjiao Shi</u> *, Zong Wang *IGSNRR, CAS, China	Adopting Semantic Signatures to Quantify the Uncertainty of Volunteered Geographic Information <u>Rui Zhu</u> * *University of California, Santa Barbara, USA	Spatial-temporal Reconstructing of Forest Percent Cover by Fusing Multiresolution Remotely Sensed Images Yihang Zhang, Feng Ling* and Xiaodong Li *IGG, CAS, China			
	Assessing Spatial Uncertainty in 3D Stochastic Mapping of Soil Properties <u>Leonardo Azevedo</u> *, Ana Horta, Amilcar Soares, Tiago Ramos and Rachel Whitsed *Universidade de Lisboa, Portugal	A Contributor based approach for assessing the quality of volunteered geographic information Die Zhang and Yong Ge* * IGSNRR, CAS, China	An Integrated Runoff Risk Support Tool for Predicting Agrochemical Runoff Risk at Field and Landscape Scales <u>Alexis Comber</u> *, Adrian Collins, Tim Hess, David Haro Monteagudo, Andy Turner and Yusheng Zhang *University of Leeds, UK			
15:00-15:30		Coffee/tea break				

15:30-17:00	Parallel sessions		
	Spatial sampling and interpolation Room: 301A	Spatial mapping Room: 301B	Classification Room: 302A
	Session Chairs: Steve Stehman and Lin Yang	Session Chairs: Paul Harris and Binbin Lu	Session Chairs: Feng Ling and Rachel Whitsed
	Class-Stratified Random Sampling with Sub-Stratifications by Edge and Interior Pixels for Reference Data Collection to Increase Accuracy in Area Estimation Jingxiong Zhang*, Yue Wan and Wangle Zhang	Mapping Soil Particle-Size Fractions: A Comparison of Compositional Kriging and Log-Ratio Kriging Zong Wang and Wenjiao Shi* *IGSNRR, CAS, China	Maximum Consistency Block based Image Segmentation Methods Hexiang Bai* and Feng Cao *Shanxi University, China
	Wuhan University, China Error Index for Additional Sampling to Map Soil Contaminant Grades Bingbo Gao, Yu Liu, Yuchun Pan, Yunbing Gao and Ziyue Chen *IGSNRR, CAS, China	Alternative Interpretations of the Particle Size Distribution of Soils (0 – 500cm) in the Loess Plateau, China Paul Harris ^{1*} , Ming'An Shao, Yihe Lü, <u>Lianhai</u> <u>Wu</u> ^{1*} and <u>Alexis Comber</u> ^{2*} ^{1*} Rothamsted Research, UK ^{2*} University of Leeds, UK	Object-oriented Classification Based on Deep Features for High Spatial Resolution Remote Sensing Images Han Gao, Linhai Jina*, Yunwei Tang, Hui Li and Haifeng Ding *RADI, CAS, China
	Comparison of Interpolation Models for Estimating Heavy Metals in Soils Under Various Spatial Characteristics and Sampling Methods Dongyue Li, Yilan Liao*, Maogui Hu and Chengdong Xu *IGSNRR, CAS, China	A Comparison of Open-Source Geographically Weighted Regression (GWR) Packages Ziqi Li* *Arizona State University, USA	Spatial Dependence Modelling for Object-Based Classifications of Remote-Sensing Images Yunwei Tana*, Jingxiong Zhang, Linhai Jing, Han Gao, Jiong You, Ying Zhang and Ru Xu *RADI, CAS, China
	Spatial Sampling Optimization Design for Monitoring Poverty Mengxiao Liu, Yong Ge*, Jianghao Wang and Shan Hu *IGSNRR, CAS, China	Registration of Point Cloud Data Based on Principle of Least-Squares Yuefeng Lu*, Yong Ge and Yangyang Fu *Shandong University of Technology, China	A Quantitative Assessment of Spectral Unmixing Strategy on the Following Subpixel Mapping for Hyperspectral Imagery. Xiong Xu*, Xiaohua Tong and Huan Xie *Tongji University, China
	Study on Spatial Interpolation of Daily Precipitation Considering Spatiotemporal Autocorrelation and Non-Stationarity: A Case Study over the Upper Reaches of the Bengbu Sluice in the Huai River Basin Lingije Li*, Qingfang Hu*, Yintang Wang and Leizhi Wang *Nanjing Hydraulic Research Institute, China	High-Resolution Mapping of Direct CO2 Emissions and Uncertainties at the Urban Scale Shaoqing Dai, Shudi Zuo and Yin Ren* *Chinese Academy of Sciences, China	A Comparative Study of Class-Aggregated Versus Class-Specific Logistic Modelling Approaches for Estimating Local Accuracies in Remotely Sensed Land Cover Information Jingxiong Zhang, Wenjing Yang*, Wangle Zhang and Yingying Mei *Wuhan University, China
	Accounting for Access Costs in Optimal Stratification for Validation of Soil Maps <u>Dick Brus¹</u> *, <u>Lin Yanq²</u> * and <u>A-Xinq Zhu¹</u> * ¹ *Nanjing Normal University, China ² *Nanjing University, China	A Platform for Sharing and Analysis of Low-Cost Environmental Sensor Data Nicholas Hamm*, Alfredo Vasquez Gomez and Rob Lemmens *University of Nottingham, China	Using Multiple Classifiers with AdaBoost in Google Earth Engine for Land Use Yuhao Wana* *Michigan State University, USA
18:00-20:00	-//	Conference Gala Dinner Meizhou Rest.	
		Wednesday 23 May	
09:00-10:20	Plenary se		I A Griffith)
03.00 10.20	Plenary session Room: Auditorium (Session Chair: Daniel A. Griffith) Keynote: Analysis of Uncertainty and its Propagation in Spatial Information System – A General Approach – Yee Leung, The Chinese University of Hong Kong, China Keynote: Who Can We Trust? Making the Most of Heterogeneous Evidence When Timely Decisions Have to Be Made – Lucy Bastin, Astor University, UK		
10:20-10:50	77	Coffee/tea break	
10:50-12:15	Plenary se	ssion Room: Auditorium (Session Chair: Pierre	e Goovaerts)
	2018 James Smith Medal (Chair of the ISARA Medal Committee: Gerard Heuvelink)		
	Keynote: Uncertainties in Sea Ice Remote Sensing and the Propagation to Polar Climate Modeling – Xi Zhao (James Smith Medal Winner), Wuhan University, China		
	Keynote: Some reflections on prediction error — Daniel Griffith, University of Texas at Dallas, USA		
12:15-13:30		Lunch Room: Park View Foyer (3 rd floor of CNC	
13:00-13:30 13:30-15:00	Business Meeting Business Center Meeting Room 1 Parallel sessions		
13.50-15.00	Spatial simulation and prediction Room: 301A	Uncertainty propagation and assessment Room: 301B	Validation Room: 302A
	Session Chairs: Ashton Shortridge and Yilan Liao	Session Chairs: Xiaohang Liu and Tom Hengl	Session Chairs: Liangyun Liu and Rui Jin
	Daily Sea Ice Lead Retrieval from MODIS Images and the Uncertainty Handling in Cloud Mask Meng Qu*, Xi Zhao* and Xiaoping Pang *Wuhan University, China	Uncertainty in the Relationship between Spatial Autocorrelation and the Modifiable Areal Unit Problem: A Simulation Study Sang-Il Lee*, Monghyeon Lee, Yongwan Chun and Daniel A. Griffith *Seoul National University, Korea	Uncertainties in Using Kriging Method to Upscale In-Situ Soil Moisture to Multiscale Pixel Estimations Wenjun Zuo and Xiaohu Zhana* *Nanjing Agricultural University, China
	Geostatistical Prediction of Water Lead levels in Flint, Michigan: A Multivariate	An Uncertainty-Based Approach to Quantify the Spatial Representativeness of Local	Cross-Calibration of Passive Microwave Satellite Brightness Temperatures Observed

Reducting the Uncertainty in Precipitation Forecasting among Statistical and opposite the Continuous Grids over Paths Reduction Forecasting among Statistical and opposite Precipitation (Ching on onliversity, China (Chingon) (Paths and Precipitation (Ching on onliversity, China (Paths and Paths a		Approach <u>Pierre Goovaerts</u> * *BioMedware, Inc, USA	Health Datasets Rachel Whitsed*, Ana Horta, Amilcar Soares and Herbert Jelinek *Charles Sturt University, Australia	by F13 SSM/I and F17 SSMIS for the Retrieval of Thickness and Area on Antarctic Thin Ice Yue Liu*, Xi Zhao and Xiaoping Pang *Wuhan University, China	
Aboveground Blomass Reference Map by Integrating Machine Learning and Spatial Statistics Statistics Namona Zieng, Shooging Dei, Shudi Zuo ond You Reef. Tümeron Jiere, Scheme Jier, Zheneng Jier, Z		Forecasting among Statistical and Dynamic Models Lei Xu and Nengcheng Chen*	An Interval Uncertainty Propagation Method Based on Kernel Density Estimation Dandan Feng, <u>Jianghong Ma</u> * and Yee Leung	Evapotranspiration Upscaling from Sparsely Distributed Ground Measurements to Continuous Grids over Heihe River Basin Tongren Xu, Shaomin Liu* and Ziwei Xu	
"Chinese Academy of Sciences, China High Accuracy Variet Modelling Transient Vall* "Zemeng Fan, Zhengping Du and Me Zhou" "Included by Polysponal Approximation of Curves Using Polynomial Interpolation Methods Sem Français Gires* "Université Pout-Veilery Montpellier 3-UMR GEED, France Efficient Nonstationary Auto-coriated Felicismulation using Convolution Filtering Activation State University, China Acturacy Assessment of IDAR-Derived Deth Felicismulation using Convolution Filtering Activation State University, USA Acturacy Assessment of IDAR-Derived Deth Felicismulation using Convolution Filtering Activation State University, USA Tortect Pea break Parallel sessions Spatial simulation and prediction I Room: 301.a Session Chairs: Tianxiang Yue and Hexiang Bai Exploring Spatial Heterogeneitles in Real Estate Market via Georgraphically Weighold Cover Dataset Methodology and Practice Summary Statistics: A Case Study in Wuhan Bighibu Let. * Roll Yee Menchong Shi and Poul Norris "Wuhano University, China Study on Topographic Correction Approach of Leaf Area Index Product Derived from Remote Sensing Data Structure of A Solis Micronutrients Data Set at the Farm-Scale Poul Herms*, "Poun Durch, Brighin La, Alexis Comber and Michael Lee "North Remote Sensing Data Sundy on Topographic Correction Approach of Leaf Area Index Product Derived from Remote Sensing Data Structure of A Solis Micronutrients Data Set at the Farm-Scale Poul Herms*, "Poun Durch, Brighin La, Alexis Comber and Michael Lee "North Remote Sensing Data Sensing Chairs and Remote Sensing Images North Remote Sensing Interpolation of Heavy Metal Structure of A Solis Micronutrients Data Set at the Farm-Scale Poul Herms*, "Poun Durch, Brighin La, Alexis Comber and Michael Lee "North Remote Sensing Images North Remo		Improving the Prediction Accuracy of Forest Aboveground Biomass Reference Map by Integrating Machine Learning and Spatial Statistics Xiaoman Zheng, Shaoqing Dai, Shudi Zuo	Propagation with Random and Interval Variables Xiaojing Song, Jianghong Ma* and Yee Leung	A Comparison of Upscaling Methods for Remotely Sensed Evapotranspiration Based on Flux Observation Matrix Xiang Li, Shaomin Liu*, Ziwei Xu and Tongren Xu	
## "Universite Pool Vielley Montpellier 3 UMA" "Belling Normal University, China GRED, France" ## "Universite Pool Vielley Montpellier 3 UMA" "Belling Normal University, China GRED, France" ## "University Usa Accuracy Assessment of UDAR-Derived DEM Aprail Saling Methods and Models for Le Area Index Minkhigan State University, USA Spatial simulation and prediction Rooms 80intob Winkhigan State University, USA		*Chinese Academy of Sciences, China High Accuracy Surface Modelling <u>Tianxiang Yue</u> ^{1*} , Zemeng Fan, Zhengping Du and <u>Na Zhao</u> ^{1*}	Involved by Polygonal Approximation of Curves Using Polynomial Interpolation	A Validation Framework for Remote Sensing Evapotranspiration Products: A Case Study in The Heihe River Basin Yuan Zhang, Shaomin Liu*, Ziwei Xu, Tongren	
Field Simulation Using Convolution Filtering Askton Shortridge "roof Thomas Bilintoh" "Michigan State University, USA" The Coffee/lea break			*Université Paul-Valéry Montpellier 3-UMR		
15:30-17:00 Spatial simulation and prediction Room: 3014 Session Chairs: Tianxiang Yue and Hexiang Bai Exploring Spatial Heterogeneities in Real Estate Market via Geographically Weighted Summary Statistics: A Case Study in Wuhan Bibibi Lut", Buyl Ke, Werzhong Shi and Paul Harris "Wuhan University, China Study on Topographic Correction Approach of Leaf Area Index Product Derived from Remote Sensing Data Yucutor of A Solis Micronutrients Data Structure of A Solis Micronutrients Data Structure of A Solis Micronutrients Data Set at the Farm-Scale Paul Harris", Tegan Darch, Binbin Lu, Alexis Comber and Marchael Lee "Rothomsted Research, UK Evaluation of Heavy Metal Lu Pollution in Soil Based on Convolutions in Properties Gerard Heavy Metal Lu Pollution in Soil Based on Convolutions in the Pear Indign. Sum Yunting Bong and Wei Qi "Shandong Jionzhu University, China Tequiants Sum Yunting Bong and Wei Qi "Shandong Jionzhu University, China "Indign. Sum", Yunting Bong and Wei Qi "Shandong Jionzhu University, China "Indign. Sum", Yunting Bong and Wei Qi "Shandong Jionzhu University, China "Indign. Sum", Yunting Bong and Wei Qi "Shandong Jionzhu University, China "Indign. Sum", Yunting Bong and Wei Qi "Shandong Jionzhu University, China "University of Leeds, UK "University, China and Marcos Esteban Angelini "Wageningen University, The Netherlands" Tequiants of the Revelbink" and Marcos Esteban Angelini "Wageningen University, The Netherlands" Tequiants of the Revelbink" and Marcos Esteban Angelini "Wageningen University, The Netherlands" Tequiants of the Revelbink" and Marcos Esteban Angelini "Wageningen University, The Netherlands" Tequiants of the Revelbink" and Marcos Esteban Angelini "Wageningen University, The Netherlands" Tequiants of the Revelbink "Angelini and Partical Data State Control of the Revelbink "Angelini and Partical Data State Control of the		Field Simulation Using Convolution Filtering <u>Ashton Shortridge</u> *and Thomas Bilintoh	for Flood Risk Mapping Xiaohang Liu*	<u>Liangyun Liu</u> *	
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Including Spatial Correlation in Structural Equation Modelling of Soil Properties Gerard Heuvelink* and Marcos Esteban Angelini *Wageningen University, The Netherlands *IGSNRR, CAS, China *IGSNRR, CAS, China *IGSNRR, CAS, China *IGSNRR, CAS, China The monitoring method of economic forest in Southern Jiangsu based on the high-resolution remote sensing images Jia Jin, Xianfena Fena*, Zhou Lu, Liang Pei and Algorithms on Ice Surface Temperature Retrieval in the Arctic Jee Fena Fena*, Xi Zhao, Xiaoping Pang and Qing Ji **Wuhan University, China *IGSNRR, CAS, China The monitoring method of economic forest in Southern Jiangsu based on the high-resolution remote sensing images Jia Jin, Xianfena Fena*, Zhou Lu, Liang Pei and Algorithms on Ice Surface Temperature Retrieval in the Arctic Jee Fena Fena*, Xi Zhao, Xiaoping Pang and Qing Ji **Wuhan University, China **Wahan University, China **Wuhan University, China **University of Leeds, UK **Universit		of Leaf Area Index Product Derived from	Based on Convolutional Neural Network	-	
Structure of A Soils Micronutrients Data Set at the Farm-Scale Paul Harris*, Tegan Darch, Binbin Lu, Alexis Comber and Michael Lee *Rothamsted Research, UK Evaluation of Heavy Metal Cu Pollution in Soil Based on Cokriging Yingjun Sun*, Yunting Jiang and Wei Qi *Shandong Jianzhu University, China Including Spatial Correlation in Structural Equation Modelling of Soil Properties Gerard Heuvelink* and Marcos Esteban Angelini *Wageningen University, The Netherlands Angelini *Wageningen University, The Netherlands Structure of A Soils Micronutrients Data Set at the Farm-Scale In Southern Jiangsu based on the high-resolution remote sensing images Jia Jin, Xianfeng Feng*, Zhou Lu, Liang Pei and Ming Luo *IGSNRR, CAS, China A novel change approach for Quantifying Land Over Change: Urbanisation in the Pearl River Delta Alexis Comber *and Ru Xu *University of Leeds, UK *University of Leeds, UK A Modified Change Vector Approach for Land Use Change Mapping in the Loess Plateau, China, Supporting Critical Zone Science Alexis Comber*, Yihe Lü, Ying Luo, Yanjiao Ren and Paul Harris *University of Leeds, UK Downscaling African Disease Case Data fro Hospitals to Fine Resolution Maps Peter Atkinson* *University, UK 18:30-19:30 Cold Buffet Room: IGSNRR 2602 Chinese Folk Music Room: IGSNRR 2602				*CAREERI, CAS, China	
Paul Harris*, Tegan Darch, Binbin Lu, Alexis Comber and Michael Lee *Rothamsted Research, UK *IGSNRR, CAS, China *IGSNRR, CA		Structure of A Soils Micronutrients Data Set	in Southern Jiangsu based on the	Algorithms on Ice Surface Temperature	
Evaluation of Heavy Metal Cu Pollution in Soil Based on Cokriging Yingiun Sun*, Yunting Jiang and Wei Qi *Shandong Jianzhu University, China *University of Leeds, UK *University of Leeds, UK *University, China *University, China *University, China *University, China *University of Leeds, UK *University of Leeds, UK *University of Leeds, UK *University of Leeds, UK *University, China *Use Change Mapping in the Loess Plateau, Chenge Mapping in the Loess		<u>Paul Harris</u> *, Tegan Darch, Binbin Lu, Alexis Comber and Michael Lee	Jia Jin, <u>Xianfeng Feng</u> *, Zhou Lu, Liang Pei and Ming Luo	<u>Pei Fan</u> *, Xi Zhao, Xiaoping Pang and Qing Ji	
Vingjun Sun*, Yunting Jiang and Wei Qi *Shandong Jianzhu University, China Alexis Comber *and Ru Xu *University of Leeds, UK Alexis Comber *and Ru Xu *University of Leeds, UK Alexis Comber *and Ru Xu *University of Leeds, UK Alexis Comber *and Ru Xu *University of Leeds, UK Alexis Comber *and Ru Xu *University of Leeds, UK Alexis Comber *and Ru Xu *University of Leeds, UK Alexis Comber *and Ru Xu *University of Leeds, UK Alexis Comber *and Ru Xu *University of Leeds, UK Alexis Comber *and Paul Harris *and Marcos Esteban *and Paul Harris *and		· ·		Comparison between the Accuracy of SMOS	
*Shandong Jianzhu University, China *Shandong Jianzhu University, China *Alexis Comber *and Ru Xu *University of Leeds, UK *University of Leeds, UK *Including Spatial Correlation in Structural Equation Modelling of Soil Properties *Gerard Heuvelink* and Marcos Esteban Angelini *Wageningen University, The Netherlands *University of Leeds, UK *University of Leeds, UK *Ship Observation Data by Sikuliaq *Xueyi Ma*, Xi Zhao, Meng Qu and Zian Cheng *Wuhan University, China Evaluating of Terrain Shading Algorithn Using Artificial Surfaces for Solar Radiation Modeling Over Mountainous Terrain *Alexis Comber*, Yihe Lü, Ying Luo, Yanjiao Ren and Paul Harris *University of Leeds, UK *University of Leeds, UK Downscaling African Disease Case Data fro Hospitals to Fine Resolution Maps *Peter Atkinson* *Lancaster University, UK 18:30-19:30 Cold Buffet Room: IGSNRR 2602 Chinese Folk Music Room: IGSNRR 2602 Thursday 24 May		Soil Based on Cokriging	Land Over Change: Urbanisation in the Pearl	Sea Ice Thickness Products and the Thin Ice	
Including Spatial Correlation in Structural Equation Modelling of Soil Properties Gerard Heuvelink* and Marcos Esteban Angelini *Wageningen University, The Netherlands *University of Leeds, UK Cold Buffet Room: IGSNRR 2602 Chinese Folk Music Room: IGSNRR 2602 Thursday 24 May Evaluating of Terrain Shading Algorithm Using Artificial Surfaces for Solar Radiation Modeling Over Mountainous Terrain Shuhua Zhana*, Xingong Li and Jiangfeng Sh *Nanjing university, China Downscaling African Disease Case Data fro Hospitals to Fine Resolution Maps *Lancaster University, UK Thursday 24 May			<u>Alexis Comber</u> *and Ru Xu		
China, Supporting Critical Zone Science Angelini *Wageningen University, The Netherlands *University of Leeds, UK Downscaling African Disease Case Data fro Hospitals to Fine Resolution Maps Peter Atkinson * *Lancaster University, UK *Lancas		1		Evaluating of Terrain Shading Algorithms	
Downscaling African Disease Case Data fro Hospitals to Fine Resolution Maps Peter Atkinson* *Lancaster University, UK Cold Buffet Room: IGSNRR 2602 Chinese Folk Music Room: IGSNRR 2602 Thursday 24 May		<u>Gerard Heuvelink</u> * and Marcos Esteban Angelini	China, Supporting Critical Zone Science <u>Alexis Comber</u> *, Yihe Lü, Ying Luo, Yanjiao Ren and Paul Harris	Modeling Over Mountainous Terrain <u>Shuhua Zhana</u> *, Xingong Li and Jiangfeng She	
18:30-19:30 Cold Buffet Room: IGSNRR 2602 20:00-21:00 Chinese Folk Music Room: IGSNRR 2602 Thursday 24 May			*University of Leeds, UK	<u>Peter Atkinson</u> *	
20:00-21:00 Chinese Folk Music Room: IGSNRR 2602 Thursday 24 May				*Lancaster University, UK	
Thursday 24 May			•		
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	Thursday 24 May				
· · · · · · · · · · · · · · · · · · ·	08:30-9:50	Plenary session Room: Auditorium (Session Chair: Peter Atkinson)			
Keynote: Handling Uncertainties in Spatial Big Data – Wenzhong Shi, The Hong Kong Polytechnic University, China		Keynote: Handling Uncertainties in Spatial Big Data – Wenzhong Shi, The Hong Kong Polytechnic University, China			

	Keynote: Uncertainty in Machine Learning: Modeling and Visualizing Errors in Spatial Prediction Based on Machine Learning – Tom Hengl,	
	The Netherlands	
09:50-10:20	Coffee/tea break	
10:20-10:35	Student Paper Award Room: Auditorium (Chair: Ashton Shortridge)	
10:35-11:55	Plenary session Room: Auditorium (Session Chair: Gerard Heuvelink)	
	Keynote: Spatial Stratified Heterogeneity, Biased Sample, and BLUE Estimators –Jinfeng Wang, IGNSRR, CAS, China	
	Keynote: Spatial statistics for monitoring land use changes: towards optimal use of big data -Alfred Stein, University of Twente, The	
	Netherlands	
11:55-12:25	Closing Ceremony (Chair: Gerard Heuvelink) Room: Auditorium	