

**Preliminary Programme AGSE 2021, Kathmandu University, Nepal/Stuttgart University of Applied Sciences, Germany (Version: 2021-11-23)**

Wednesday, 24.11.2021	Thursday, 25.11.2021	Friday, 26.11.2021
<p><b>11:30 AM to 12:00 PM</b> Registration /Tea Coffee (On-site Participants)</p> <p style="text-align: right;"><i>C.V. Raman Auditorium</i></p>		
<p><b>07:15 – 08:45 MEZ   12:00 – 13:30 NST</b></p>		
<p><b>Opening and Welcome Addresses</b></p> <p><i>Master of Ceremony/Moderator: Dr. Reshma Shrestha</i></p> <p style="text-align: right;"><i>C.V. Raman Auditorium</i></p> <ul style="list-style-type: none"> <li>• National Anthem of Nepal</li> <li>• Kathmandu University Anthem</li> <li>• Welcome: Dr. Subash Ghimire, Acting HoD, Geomatics Engineering</li> <li>• Inauguration (Lighting the lamp)</li> <li>• Prof Dr. Manish Pokhrel, Dean, School of Engineering</li> <li>• Prof Dr. Bhola Thapa, Vice chancellor, Kathmandu University,</li> <li>• Mr. Ganesh Prasad Bhatta, Executive Director, LMTC</li> <li>• Prof Dr. Subodh Sharma, Registrar, Kathmandu University</li> <li>• Prof. Dr. Franz-Josef Behr (Head of AGSE)</li> <li>• Prof. Dr. Dietrich Schröder (Vice Dean and Study Director, Stuttgart University of Applied Sciences)</li> </ul>		
<p><b>09:00 – 10:30 MEZ   13:45 – 15:15 NST</b></p>	<p><b>08:00 – 09:30 MEZ   12:45 – 14:15 NST</b></p>	<p><b>08:00 – 09:30 MEZ   12:45 – 14:15 NST</b></p>
<p><b>Cultural Programme</b></p> <p style="text-align: right;"><i>C.V. Raman Auditorium</i></p> <p><i>Raj Kumar Mandhar</i> <i>(Department of Music, Kathmandu University)</i></p>	<p><b>Keynotes</b></p> <p><i>Chair: Franz-Josef Behr</i></p> <p>Peter Schmitz (Department of Geography, University of South Africa): <i>Food insecurity, fortunate index and income as possible indicators for vulnerability</i></p>	<p><b>Keynotes</b></p> <p><i>Chair: Ramesh Kumar Maskey</i></p> <p>Jagannath Aryal (Senior Lecturer Infrastructure Engineering, The University of Melbourne): <i>Earth Observation and Digital Twin for SDG: a future outlook from urban systems</i></p>

<ul style="list-style-type: none"> <li>• Master Drummers of Nepal (Navabaja: Nine Different Newar local Drums): Newar Drum Ensemble</li> <li>• Bharat Nepali (Sarangi: Nepali Folk Instrument): Nepali Folk Tunes</li> <li>• Prabhu Raj Dhakal (Classical Vocal): Classical Vocal Music</li> </ul>	Athina Trakas (Open Geospatial Consortium): <i>Recent Developments at OGC</i>	Matthias Möller (Beuth University/University of Bamberg): <i>Five Decades - almost a half Century - of Operational Earth Monitoring</i>			
<b>10:40 – 12:45 MEZ   15:35 – 17:30 NST</b>	<b>09:45 – 11:15 MEZ   14:30 – 16:00 NST</b>	<b>09:45 – 11:15 MEZ   14:30 – 16:00 NST</b>			
<p><b>Keynote</b></p> <p>Janak Raj Joshi, Joint Secretary, Ministry of Land Management, Cooperatives and Poverty Alleviation</p>	<p><b>UAV, Photogrammetry, Remote Sensing</b></p> <p><i>Chair: Uma Shankar Panday, A.P. Pradeepkumar</i></p>	<p><b>Sustainability</b></p> <p><i>Chair: Reshma Shrestha,</i></p>	<p><b>Environment, Health, and Disaster management</b></p> <p><i>Chair: Subash Ghimire, Moses Ngigi</i></p>	<p><b>Young Scientists Forum</b></p> <p><i>Chair: Michael Hahn, Anja Ernst</i></p>	
<p><b>National Mapping and Infrastructure</b></p> <p><i>Chair: Dietrich Schröder</i></p> <ul style="list-style-type: none"> <li>• Winhard Tampubolon: Implementation of a New Geospatial Information (GI) Standard in DEM Generation to Support Disaster Management</li> <li>• Faqiri Meryem: <i>Toponymic spatial database as a primordial toponymic activity / Design and representation</i></li> <li>• Hamidreza Ostadabbas, Helmut Merz and Heike Weippert: <i>Integration of Urban Spatial Data Management and Visualization with Enterprise</i></li> </ul>	<p><b>Sustainability and Natural Resources</b></p> <p><i>Chair: Reshma Shrestha, Co-chair: Christine Brönnner</i></p> <ul style="list-style-type: none"> <li>• Sujan Nepali and Uma Shankar Panday: <i>Trend analysis of agro-meteorological parameters collected using IoT-based ground sensors</i></li> <li>• Krishna Kafle and Uma Shankar Panday: <i>Mapping of Wheat Cultivation Area with Planet Imageries</i></li> <li>• Sayanta Ghosh, Renu Lata and K. C. Gouda: <i>Monitoring the Relationship of LST, NDVI, NDSI, NDBI and NDMI using Pre-Winter Landsat Data in Beas Basin, Himachal Pradesh, India</i></li> </ul>	<ul style="list-style-type: none"> <li>• Moses M. Ngigi &amp; Marvin Allan Kariuki Mwangi. <i>Using Remote Sensing in the Assessment of Desert Locust Breeding Areas in Northern Kenya</i></li> <li>• Mohammed Sultan Alshayef, K. S. Sajinkumar and A. P. Pradeepkumar: <i>Monitoring In-SAR Coherence in Sepulchered Aoronga Impact Crater, Chad, using Sentinel-01 time series data</i></li> <li>• Saranya R. Chandran, Shania James, Varsha M. Nair, Devika Padmakumar and Sajin Kumar K. S.: <i>Quantifying erosion rates of simple meteorite impact craters</i></li> <li>• Aswathi Janardhanan, K S Sajinkumar and Thomas Oommen: <i>PSInSAR as a tool to monitor Hydroelectric Power projects</i></li> </ul>	<ul style="list-style-type: none"> <li>• Patrick Adda: <i>The Role of Geomatics in the Energy Transition</i></li> <li>• Rajeev Ranjan Pandey, Warangkana Jutidamrongphan, Saroj Gyawali and Md. Shahariar Chowdhury: <i>Sustainable Energy Project Management: A Review on Success Factors</i></li> <li>• Dhayalan V and Karuppasamy Sudalaimuthu: <i>Spatial variation analysis of Iron, Manganese, Zinc and Copper existence at Anaimalai, Coimbatore</i></li> </ul>	<ul style="list-style-type: none"> <li>• Kelly Green and Alison Lenaerts. <i>Addressing Climate Change through Participatory Mapping in Rural Tajikistan</i></li> <li>• Rehana Shrestha, Klaus Telkmann, Gabriele Bolte, Reshma Shrestha, Pramesh Koju and Biraj Karmacharya. <i>Digital Participatory Method for Environmental Justice Research: Lessons Learned from Adapting and Piloting DASEIN concept in the context of the Global South- Nepal</i></li> <li>• A.P. Pradeepkumar &amp; Renjith V.R.: <i>Extreme weather events in Kerala, India: a scientometric analysis of disaster response</i></li> <li>• Dennis Gitundu: <i>Topographic mapping with Unmanned Aerial</i></li> </ul>	<ul style="list-style-type: none"> <li>• Muhammad Abdulgaf Alfakhori: <i>Occlusion Screening using 3D city models as reference database for mobile AR-Applications</i></li> <li>• Archana KC: <i>Tree Inventory using Deep Learning in Orthophotos</i></li> <li>• Abdul Saboor Hamza: <i>Development of a mechanism for storing point clouds in PostgreSQL databases</i></li> <li>• Walakuluge Don Buddhika Abeywickrama: <i>Hydrological Analysis of Ungauged Basins</i></li> </ul>

<p><i>Applications Using Open-Source Software</i></p> <ul style="list-style-type: none"> <li>Deepak Parajuli: <i>Augmented Reality Application in Historical Exploration in Germany</i></li> </ul>	<ul style="list-style-type: none"> <li>Md. Zahid Hasan Siddiquee and Md. Salman Reza: <i>Evidence Based Decision making for Integrated Water Resource Management (IWRM) using UAV Data</i></li> </ul>		<ul style="list-style-type: none"> <li>Surya Pratap Chandra Kishore Bodi, Amit Kumar and Purabi Saikia: <i>Alpha diversity mapping in tropical deciduous forests using high-fidelity imaging spectroscopy</i></li> </ul>	<p><i>Vehicles for Flood hazard modeling</i></p>	
<p>13:00 – 14:30 MEZ   17:30 – 19:00 NST</p>		<p>11:30 – 13:00 MEZ   16:15 – 17:45 NST</p>			
<p><b>Open Source</b></p> <p><i>Chair: Franz-Josef Behr</i></p> <ul style="list-style-type: none"> <li>Uma Shankar Panday, Shashish Maharjan, Kushal Sharma and Shashank Karki: <i>Non-governmental GeoNode in Nepal: Challenges and Opportunities</i></li> <li>Gillie Cheelo and Jeremiah Daka: <i>Evaluation of free and open-source (FOSS) mobile data collection tools (MDCs) to enhance field data collection for urban planning in Zambia</i></li> </ul> <p><b>Alumni session and Professional Development</b></p> <p><i>Chair: Dietrich Schröder</i></p> <ul style="list-style-type: none"> <li>Joseph M. Gitahi: <i>My professional &amp; personal experiences</i></li> <li>Mitun Talapatra: <i>Opportunities for Geospatial professionals in Mapping Industry</i></li> <li>Diana Christa Gamutan/Milloza: <i>My professional &amp; personal experiences</i></li> <li>Miguel Vallejo Orti: <i>My experiences in Germany as an Erasmus Bachelor Student, International Master Student, and now International Ph.D. Student</i></li> </ul>	<p><b>Land Use and Land Management</b></p> <p><i>Chair: Peter Schmitz,</i></p> <ul style="list-style-type: none"> <li>Sharad Chandra Mainali: <i>Land Conflict Inventory: A tool to strengthen Land Conflict Resolution Mechanism - A case study of Chautara Sangachwokgadi Municipality, Nepal</i></li> <li>Sahil Singh Kapoor and Tejuwant Singh Brar: <i>Spatial GIS-based multi-criteria Evaluation approach to assess Walkability conditions around Identified TOD station areas: A Case study of 2 Neighboring Indian Transit cities</i></li> <li>Pawan Thapa: <i>Detection and Prediction of land cover and land-use change in Kathmandu, Using Geospatial technologies</i></li> <li>Tanka Prasad Dahal, Reshma Shrestha and Purna Bahadur Nepali: <i>Application of Geospatial data in Land use planning for food security in Nepal</i></li> </ul>	<p><b>Disaster Management</b></p> <p><i>Chair: Seraphin Alvanides, A.P. Pradeepkumar</i></p> <ul style="list-style-type: none"> <li>Sooraj N P, Jaishanker R and Ammini Joseph. <i>Geospatial investigation into landscape-level changes in invasibility</i></li> <li>Alharith Yousif &amp; Mohamed Salih Dafalla: <i>Geospatial Analysis of Internal Displacement Impacts on Vegetation Cover in Jebel Marra, West Darfur, Sudan</i></li> <li>Rajaneesh A., Pradeepkumar A. P., Thomas Oommen and Sajinkumar K. S.: <i>Modelling long runoff landslides of the Western Ghats using RAMMS</i></li> </ul>	<p><b>Young Scientists</b></p> <p><i>Chair: Michael Hahn</i></p> <ul style="list-style-type: none"> <li>Leidy Johana Rico Trujillo: <i>Identification of alluvial gold mining in the Colombian Chocó region using radar satellite images</i></li> <li>Rushikesh Padsala: <i>Using 3D city models for the sustainable management of the urban food water energy resources</i></li> <li>Patrick Würstle, Thunyathep Santhanavanich, Rushikesh Padsala, Volker Coors: <i>Development of a Digital 3d Participation Platform - Case Study of Weilimdorf (Stuttgart, Germany)</i></li> </ul>		

				<ul style="list-style-type: none"> <li>Caleb Masinde: <i>The Assessment of the Impact of Floods in Budalangi, Kenya</i></li> </ul>	
14:45 – 16:15 MEZ   19:30 – 21:00 NST		13:30 – 15:00 MEZ   18:15 – 19:45 NST		13:00 – 15:00 MEZ   17:45 – 19:15 NST	
<b>Workshop</b> Christine Brönnert: <i>Geo-Information management for the humanitarian/development nexus: challenges and opportunities</i>	<b>Workshop</b> Hamidreza Ostadabbas: <i>Data acquisition with help of QField and Open Source GIS software (QGIS)</i>	<b>Workshop</b> Mohammad Shafi Bajauri: <i>Introductory Workshop on Google Earth Engine and its application in hazard assessment</i>	<b>Workshop</b> Chair: Matthias Möller Winhard Tampubolon: <i>DEM generation using open source GI processing software (SNAP desktop)</i>	<b>Closing Ceremony/Farewell</b> <i>Master of Ceremony/Moderator: Dr. Reshma Shrestha</i>  <b>Keynote</b> Matthias Ruchser (Crop Trust): <i>The Loss of Biodiversity – Climate Change as a security risk.</i> <ul style="list-style-type: none"> <li>Associate Professor Brijesh Adhikari</li> <li>Mr. Ganesh Prasad Bhatta, Executive Director</li> <li>Prof Dr. Manish Pokhrel, Dean, School of Engineering</li> <li>Vote of Thanks: Dr. Subash Ghimire</li> <li>Prof. Jaishanker (Digital University, Trivandrum, Kerala, India): Forwarding to AGSE 2022</li> <li>Prof. Gaspers, Vice President Stuttgart University of Applied Sciences</li> <li>Prof. Dr. Dietrich Schröder, Study Director and Vice Dean</li> <li>Closing Remarks: Prof. Dr. Franz-Josef Behr, Head of AGSE</li> </ul>	