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**SUMMER WORKSHOP**

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| FOUNDED, BRIEF NAME | UNIVERSITY NAME | | | | | |
| 1942, **NUM** | **National University of Mongolia** | | | | | |
| 1959, **MUST** | **Mongolian University of Science and Technology** | | | | | |
| PROJECT TITLE | | | | | WP. | START-END TIME |
| Erasmus +Capacity Building in Higher Education, **SMARTCITY: Innovative Approach Towards a Master Program on Smart Cities Technologies** | | | | | **3.4** | **14:00 - 18:00**  **Ulaanbaatar time** |
| PARTICIPANTS FROM | | | | | TYPE | |
| **Bulgaria, Kazakhstan, Latvia, German, Russia, Greece, Mongolia** | | | | | **Virtual** | |
| **SCHEDULE** |  | |  | |  |  |
| **Day 1: MONDAY. 25 OCTOBER 2021** | | | **TO BE PRESENTED BY** | | **TIME** | **LINK** |
| Registration of participants | | | | | 13:50 – 14:00 | https://zoom.us/j/95825771400?pwd=Wmk0Szl0WGtEd2l3b1FrdjUwWHZWUT09 |
| Welcome Speech, Head of Program and Quality Assurance Office | | | Associate Professor. Purevtsogt Nugjgar, NUM | | 14:00 – 14:15 |
| University's Introduction Video | | | | | 14:15 – 14:30 |
| Multimodal deep feature fusion for bird species classification | | | Naranchimeg Bold (NUM) | | 14:30 – 15:00 |
| Basic techniques for creating Gigapixel panorama of Ulaanbaatar city | | | Javkhlan Rentsendorj (NUM) | | 15:00 – 15:30 |
| Fast Horizon Line on High-resolution Maritime Images using genetic algorithm | | | Uuganbayar Ganbold (NUM) | | 15.30 – 16:00 |
| Break time | | | | | 16:00 – 16:30 |
| A Virtual Content-based Immersive Online School | | | G.Onon\*, Kh.Oyundolgor, A.Enkhbayar (NUM) | | 16:30 – 17:00 |
| School Information Management system issues and solutions | | | A.Baatarbileg | | 17:00 - 17:30 |
| School Information system: From Implementation to Delivery | | | A.Baatarbileg et all | | 17:30 – 17:45 |
| Discussion | | | | | 17:45 – 18:00 |
| **Day 2: TUESDAY. 26 OCTOBER 2021** | | **TO BE PRESENTED BY** | | **TIME** | | **LINK** |
| Registration of participants | | | | 13:50 – 14:00 | | https://zoom.us/j/95825771400?pwd=Wmk0Szl0WGtEd2l3b1FrdjUwWHZWUT09 |
| Automatic detection of surface imperfections | | Enkhzol D, Sonomdash B. (NUM) | | 14:00 – 14:15 | |
| Data integration for Mongolian airline systems | | Michidmaa Ulziibayar (NUM) | | 14:15 – 14:30 | |
| A Tile-based Large-scale Terrain Rendering | | B.Batzorig\*, Kh.Oyundolgor, A.Enkhbayar (NUM) | | 14:30 – 15:00 | |
| A VR-based Cultural Tourism | | B.Batzaya\*, Kh.Oyundolgor, A.Enkhbayar (NUM) | | 15:00 – 15:30 | |
| Discussion | | | | 15.30 – 16:00 | |
| Break time | | | | 16:00 – 16:30 | |
| Estimating relationship between Air pollution and public health in Ulaanbaatar | | Buyanjargal Nyamkhuu | | 16:30 – 17:00 | |
| Development of a monitoring system for reducing the spead of infection by using adaptive control | | Otgon Dariimaa | | 17:00 - 17:30 | |
| Analysis of human mobility in urban area | | Bud Bayarjargal | | 17:30 – 17:45 | |
| Discussion | | | | 17:45 – 18:00 | |
| **Day 3: WEDNESDAY. 27 OCTOBER 2021** | | | **TO BE PRESENTED BY** | **TIME** | | **LINK** |
| Registration of participants | | | | 13:50 – 14:00 | | https://zoom.us/j/95825771400?pwd=Wmk0Szl0WGtEd2l3b1FrdjUwWHZWUT09 |
| Welcome by Vice President for Research, Innovation and Cooperation of MUST | | | Prof. Namnan  Tumurpurev, MUST | 14:00 – 14:15 | |
| University's Introduction Video | | | | 14:15 – 14:30 | |
| A Case Study on Smart City Projects in Ulaanbaatar City | | | Zorig Gunjee, CUC | 14:30 – 15:00 | |
| Assessment methodology of smart cities development | | | Burmaa Myagmar, MUST | 15:00 – 15:30 | |
| Urban development challenges of UB city | | | Purev-erdene Ershuu, MUST | 15.30 - 16:00 | |
| Break time | | | | 16:00 – 16:30 | |
| Unobtrusive activity detection for elderly people living alone | | | Luubaatar Badarch, MUST | 16:30 – 17:00 | |
| Human Emotion Recognition in Video using Deep Learning | | | Orgil Jargalsaikhan, MUST | 17:00 – 17:30 | |
| Discussion | | | | 17:30 – 18:00 | |
| **Day 4: THURSDAY. 28 OCTOBER 2021** | | | **TO BE PRESENTED BY** | **TIME** | | **LINK** |
| Registration of participants | | | | 13:50 – 14:00 | | https://zoom.us/j/95825771400?pwd=Wmk0Szl0WGtEd2l3b1FrdjUwWHZWUT09 |
| Experimentation results on machine learning approach for quadcopter stabilization | | | Tengis Tserendondog, MUST | 14:00 – 14:30 | |
| Internet of Things (IoT), infrastructure, technology development and security | | | Erdenetuya Dorj, MUST | 14:30 – 15:00 | |
| Smart health monitoring based on IoT | | | Batdalai Sukh, MUST | 15:00 – 15:30 | |
| Person re-identification from Unmanned Aerial Vehicles | | | Khulan Khalzaa, MUST | 15:30 – 16:00 | |
| Break time | | | | 16:00 – 16:30 | |
| Development of robot test-bench with different control systems | | | Erkhbayar Batmunkh, Graduate student, MUST | 16:30 – 16:50 | |
| Charging and discharging electrochemical battery in residential energy storage | | | Tenuun Dovdon,  Graduate student, MUST | 16:50 – 17:10 | |
| Automated trash bin development for Intelligent Waste Management System in Smart Cities | | | Bilguun Ganbaatar,  Graduate student, MUST | 17:10 – 17:30 | |
| Discussion | | |  | 17:30 – 18:00 | |
| **Day 5: FRIDAY. 29 OCTOBER 2021** | | | **TO BE PRESENTED BY** | **TIME** | | **LINK** |
| Registration of participants | | | | 14:50 – 15:00 | | https://zoom.us/j/95825771400?pwd=Wmk0Szl0WGtEd2l3b1FrdjUwWHZWUT09 |
| The smart university is a key indicator for the development of smart and innovative cities | | | Prof. Narantsetseg Yadmaa, MUST | 15:00 – 15:30 | |
| Designing and implementing a Master's double degree program | | | Prof. Oyun-erdene  Namsrai, NUM | 15:30 – 16:00 | |
| Break time | | | | 16:00 – 16:30 | |
| Feedback from Summer School participants | | |  | 16:30 – 17:00 | |
| **Summer School Closing** | | |  | 17:00 – 18:00 | |

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