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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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