**Monday, September 14**

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| 13:00-13:20 | **Ceremony OPENING For ICEMIS 2020****Rector of IITU, doctor of technical Sciences, Professor Raissa Uskenbayeva****Director of Information Technology and Communications Center, Jordan University of Science and Technology, Shadi Aljawarneh**  |
| 13:20-13:50 | **Plenary talk 1:** **Keynote Speaker:** Cho Young Im, Gachon University, Faculty of Computer Science, Professor**Research Interests:** artificial intelligence, smart city, big data, ambient intelligence, standardization, service robot**Topic:** "Artificial Intelligence Campus"**Chairman:** Yevgeniya Daineko |
| 13:50-15.00 | **Section-1: Information systems and Cyber systems****Room Chair: Abdul Razaque** | **Section-2: AI and ML****Room Chair: Marat Nurtas** | **Section-3: E-learning****Room Chair: Timothy McGee** |
| 13:50-15.00 | Performance Analysis of blockchain based systems for industry applications***Mansoor Khan, Prof. Dr. Oğuz Bayat and Dr. Uğur Coruh*** | Trends the use of Artificial Intelligence techniques for peer assessment***Lorena Bowen Mendoza, Maricela Pinargote Ortega, Jaime Meza Hormaza and Sebastian Ventura Soto*** | Fuzzy-based Active Learning for Predicting Student Academic Performance***Maria Tsiakmaki, Georgios Kostopoulos, Sotiris Kotsiantis and Omiros Ragos*** |
| 13:50-15.00 | An Extensive Analysis of the Ad Hoc Network***Maaeda M. Rashid, Muthana Isawi and Baban A. Mahmood*** | Lung Cancer Classification and Detection Using Convolutional Neural Networks***Deniz Anwer and Serkan Ozbey*** | Examining students’ views on the implementation of the two-way immersion program in the educational process of Kazakhstan***Аида Оспанова and Tatyana Shelestova*** |
| 13:50-15.00 | A Framework to Protect Against Phishing Attacks ***Younis A Younis and Mohamed Musbah*** | Accuracy' Measures of Sentiment Analysis Algorithms for Spanish Corpus generated in Peer Assessment***Maricela Pinargote-Ortega, Lorena Bowen Mendoza, Jaime Meza Hormaza and Sebastián Ventura Soto*** | Development of an automated expert system for diagnosing diseases of internal organs[***Alua Myrzakerimova and Mugulsum Nurmaganbetova***](http://www.iitu.kz/) |
| 13:50-15.00 | Security architectures for sensitive Data in Cloud Computing***Tareq Abed Mohammed and Ahmed Burhan*** | Artificial intelligence and its impact on the prediction of economic indicators***Kevin Mero Ramírez, Jaime Meza Hormaza and Sebastián Ventura Soto*** | ECG physical signals study and analysis as applied task for physics virtual laboratory work for pupils at secondary schools***Akmaral Kuatbayeva, Yevgeniya Daineko, Madina Ipalakova, Gulnar Kuatbayeva, Bakyt Kossynbayev, Ryskhan Satybaldiyeva and Zarina Altayeva*** |
| 13:50-15.00 | Transforming RDF to Property Graph in Hugegraph***Haihong E, Penghao Han and Meina Song*** | Auto-abstracting of texts in the Kazakh language***Aliya Turganbayeva and Diana Rakhimova*** | COMPUTER MODELING OF NANOSATELLITE TRAJECTORY IN THE POLAR COORDINATE SYSTEM USING MATLAB INTERFACE***Bakhyt Alipova and Olga L. Starinova*** |
| 13:50-15.00 | A SYSTEMATIC REVIEW OF TRANSITION FROM IPV4 TO IPV6***Gulzinat Ordabayeva, Mohamed Othman, Bibinur Kirgizbayeva, Zhalgasbek Iztaev and Aigulim Bayegizova*** | Development algorithms for the analysis of the spread of coronavirus infection COVID-19 based on analytical software SAS***Zhanel Nurdaulet, Kuanysh Shametov, Zarina Syrymbet, Akmaral Kuatbayeva, Azamat Syzdykov, Yerassyl Akhmetov, Makhat Tumenbayev and*** | The experience of using information and communication technologies in IITU JSC and their impact on the educational process***Yevgeniya Daineko, Gulnara Zakirova, Madina Ipalakova, Dana Tsoy and Aigerim Seitnur*** |
| 15:00-15.30 | **Plenary talk 2:** **Keynote Speaker:** ***Prof. Victor Chang, Professor, Teesside University, Middlesbrough, UK*****Research Interests:** Data Science, IoT**Topic:** "The Next Generation of AI and Data Science" |
| 15:30-16.30 | **Section-1: Information systems and Cyber systems****Room Chair: Abdul Razaque** | **Section-2: AI and ML****Room Chair: Marat Nurtas** | **Section-3: E-learning****Room Chair: Timothy McGee** |
| 15:30-16.30 | Valid and Invalid Bitcoin Transactions***Saule Amanzholova, Nurbek Tastan, Amina Yessenalina and Kamila Kalkamanova*** | Machine learning and neural network methodologies of analyzing social media***Vladislav Karyukin, Aidana Zhumabekova and Sandugash Yessenzhanova*** | Intercultural communication modeling based on modern information technologies***Gulnara Zakirova, Ainur Kaliaskarova and Nurzhigan Utelbayeva*** |
| 15:30-16.30 | Monitoring of promising frequency ranges for 5G network development in Almaty city***Aigul Kulakayeva, Valery Tikhvinskiy, Altay Aitmagambetov, Almash Zhaksylyk and Bagdat Kozhakhmetova*** | Automated Question-Answer Medical Model based on Deep Learning Technology***Abdelrahman Abdallah, Mahmoud Kasem, Mohamed Hamada and Shaymaa Sdeek*** | E-learning as a factor of quality assurance of professional training of future teachers of Russian language and literature ***Baiyan Zholdasbekova, Karina Galay, Serik Mizanbekov, Zhadyra Bayanbayeva and Zhanna Dzhalamova*** |
| 15:30-16.30 | Methods for creating Intelligent transportation systems using dynamic microlevel model of the city based on a qualitative correspondence matrix***Shamsigul Kobdikova, Rustam Khalilev and Perizat Arimbekova*** | 2-D Finite Element method using “eScript” for acoustic wave propagation***Marat Nurtas, Zharasbek Baishemirov, Aizhan Ydyrys and Aizhan Altaibek*** | Geoinformational education and project approach at KSU named after Sh. Ualikhanov***Saule Damekova, Nurgul Nurmuhanbetova and Anargul Belgibayeva*** |
| 15:30-16.30 |  | Using of Machine Learning algorithm and Spectral method for simulation of Nonlinear Wave Equation***Marat Nurtas, Aizhan Ydyrys and Aizhan Altaibek*** |  |
| 15:30-16.30 |  | Contour analysis of external images***Raissa Uskenbayeva and Samat Mukhanov*** |  |

**Tuesday, September 15**

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| 12:00-12:30 | **Plenary talk 3:** **Keynote Speaker:** ***Masalovich Andrey Igorevich, Moscow, Russia*****Research Interests:** competitive intelligence, information security, cyber intelligence. **Topic:** "Internet-intelligence in the digital world"**Chairman:** Yevgeniya Daineko |
| 12:30-13:00 | **Plenary talk 4:** **Keynote Speaker:** ***Juan A. Lara, UDIMA, Madrid, Spain*****Research Interests:** **Topic:** "Educational Data Mining"**Chairman:** Yevgeniya Daineko |
| 13:00-13:50 | **Section-4: Digitalization and Business Process Modeling****Room Chair: Aiman Moldagulova** | **Section-5: Web application and Software Engineering****Room Chair: Sabina Rakhmetulayeva** | **Section-6: Digital Society****Room Chair: Galym Omarov** |
| 13:00-13:50 | The structure and composition of the business process model ***Zhuldyz Kalpeyeva, Aizhan Kassymova, Timur Umarov, Akkyz Mustafina and Nurzhan Mukazhanov*** | A Web Application for Company Reports Management System ***Hamza Mahfoud Hamer, Osama Ibraheem Ashour and Muhammad Ilyas*** | Assessing Quality Standards in Electronic Gates of Educational Institutions: A Field Study***Ebitisam Elberkawi, Marwa Dakhil, Amira Almukhtari and Abdelsalam Maatuk*** |
| 13:00-13:50 | APPLICATION OF BIG DATA IN LOGISTICS***Aiman Moldagulova, Ryskhan Satybaldiyeva and Abu Kuandykov*** | Web Application Based on MVC Laravel Architecture for an Online shop***Mohammed Thakir Mahmood Mahmood and Osama Ibraheem Ashour Ashour*** | Problems and perspectives of Digital Silk Road in Central Asia***Zhanat Zakiyeva*** |
| 13:00-13:50 | The construction of the Kazakh language thesauri in automatic word processing system***Aigerim Aitim, Ryskhan Satybaldiyeva and Waldemar Wojcik*** | The audit method of enterprise’s Information security***Gulzira Mukatay, Gulmira Bekmanova, Assel Omarbekova and Altynbek Sharipbay*** | Digitization of Intangible Cultural Heritage as a method to save and actualize it on the example of Kazakh folk dance***Zhanna Ramadanova*** |
| 13:00-13:50 | Designing business processes based on an integrated approach: process, model and architectural***Abu Kuandykov and Raissa Uskenbayeva*** | Validation Framework for Aspectual Requirements Engineering (ValFAR) ***Sohil Alshareef, Abdelsalam Maatuk, Tawfig Tawill and Mohamed Hagal*** | Standard of the Republic of Kazakhstan «Occupational health and safety management systems» and analysis of traumatism and occupational (job-related) diseases at the enterprises ***Roza Suleimen-Kyzy Omirbay, Makpal Kabdullaevna Malgazhdarova, Firuza Kaisarbekovna Batesova and Vladlena Stepanovna Shevtsova*** |
| 13:50-14:10 | **Plenary talk: 5****Keynote Speaker:** ***Lucio De Paolis, Lecce, Italy*****Research Interests:** augmented and virtual reality, computer-aided surgery, human-computer interaction. **Topic:** "Augmented Reality in Medicine and Surgery"**Chairman:** Yevgeniya Daineko |
| 14:10-14:50 | Towards Digital University: Experience of Kazakhstan***Galiya Berdykulova, Madina Ipalakova, Marat Kamysbayev and Yevgeniya Daineko*** | Prioritizing Software Components Risk: Towards a Machine Learning-based Approach***Mrwan Benidris, Hany Ammar, Dale Dzielski and Wisam Benamer*** | Psycho-emotional factor of distance learning in COVID-19 pandemic situation in Kazakhstan***Sitora Mustafayeva and Akmaral Satova*** |
| 14:10-14:50 | A review of free resources for processing and analyzing geospatial data***Айгуль Мименбаева and Тамара Жукабаева*** | Overview of the method for choosing the most suitable database system according to certain criteria***Dias Yertay*** | IT solutions for the oil and gas industry***Gulzhan Kosmbayeva, Lyazzatt Tastanova, Raigul Orynbassar, Dinara Sultanova and Medet Zhanabayev*** |
| 14:10-14:50 | MATHEMATICAL MODELING OF THE HEAT TRANSFER EQUATION IN THE PIPELINE***Bolatbek Rysbaiuly and Aigul Satybaldina*** |  | Management Information System of main oil pipeline***Sabina Dairbayeva and Alipbay Dairbayev*** |
| 14:10-14:50 |  |  | Assessment of Qualitative Characteristics of Project Risks***Galym Omarov, Yerlan Shildibekov, Aigul Omarova and Aida Tashtamysheva*** |
| 14:50-15:10 | **CLOSURE****Vice-rector of Science and International Affairs****Yevgeniya Daineko** |