



12th International Conference on
APPLICATION of INFORMATION and
COMMUNICATION TECHNOLOGIES

CONFERENCE PROGRAM

17-19 October 2018, Almaty, Kazakhstan

PROGRAM AT A GLANCE

17 October 2018

Location: Kazakh-British Technical University

Address: Tole bi st. 59, Almaty

09:00 – 16:30		Events at Main Convention Hall
09:00 – 10:00		Registration (Reception)
10:00 – 10:40		Welcoming and Opening Ceremony
10:40 – 11:40		Keynote Session
11:40 – 12:00		Coffee Break / Exhibition on Scientific Information Sources
12:00 – 13:00		Keynote Session
13:00 – 13:10		Group photo of all participants (location: Main Hall)
13:10 – 14:00		Lunch
14:00 – 16:00		Tutorial Session
16:00 – 16:30		Coffee Break
16:30 – 19:00		Sightseeing City Tour in Almaty (Kok Tobe)

18 October 2018

Location: al-Farabi Kazakh National University

Address: 71 al-Farabi Ave., Almaty

09:30 – 10:00		Registration
10:00 – 10:40		Welcome and Keynote Session (Main Hall)
10:40 – 11:00		Coffee Break
11:00 – 14:00		Concurrent Technical Sessions
14:00 – 15:00		Lunch
15:00 – 18:30		Medeo Gourage Tour (ticket)*
19:00		Banquet Dinner (restaurant Pugasov) (ticket)*

19 October 2018

Location: Suleyman Demirel University

Address: 1/1 Abylai Khan Street, Kaskelen, Almaty

10:00 – 10:40		Welcome and Keynote Session
10:40 – 11:00		Coffee Break
11:00 – 13:30		Concurrent Technical Sessions
13:30 – 14:20		Lunch
14:20 – 14:40		Campus Tour
14:40 – 15:00		Closing Ceremony
		Conference is Closed

* - Please, take your ticket at the registration desk.

AICT2018 International Conference



OCTOBER, 2018

Location:

Kazakh-British Technical University, Kazakhstan

17 October 2018

Location: Kazakh-British Technical University

Address: Tole bi st. 59, Almaty

09:00–10:00

Registration

**10:00–10:30
Rond Hall**

WELCOMING AND OPENING CEREMONY

Assoc.Prof. Abzeldin Adamov,

AICT2018 General Chair / IEEE Azerbaijan Chapter / ADA University, Azerbaijan

Professor Kenzhebek Ibrashev,

Rector, Kazakh-British Technical University, Kazakhstan

Professor Galimkair Mutanov,

Rector, al-Farabi Kazakh National University, Kazakhstan

Professor Kanat Kozhakhmet,

Rector, Suleyman Demirel University, Kazakhsta

**10:30–10:40
Rond Hall**

ACKNOWLEDGEMENT OF SUPPORTERS

Kairat Akhmetov,

*Founder and CEO at "CEPTEK" Project, Kazakhstan
www.otgroup.kz*

Zhomart Sadykov,

*CEO at Khan Group Company, Kazakhstan
www.umag.kz, www.zapis.kz*

Mehmet T Haseki,

*Managing Director, MIKRO Information Handling and
Distribution FZE, United Arab Emirates
www.mikroinfo.com*

**10:40–11:40
Hall: Main
Convention**

KEYNOTE SESSION

10:40-11:10

Speaker: Professor Peter Broeder

*Communication and Information Sciences
Department, Tilburg University, Netherlands*

Title: Trust and Privacy in Global e-Commerce.

11:10-11:40 *Speaker:* **Professor Adnan Yazici**
*Chair of Department of Computer Science, School of
Science and Technology, Nazarbayev University,
Kazakhstan*
Title: Big Data and Computational Intelligence with
Multimedia Wireless Sensor data perspective.

11:40–12:00 **Coffee Break / Exhibition**

12:00–13:00
Hall: Main
Convention **Keynote Session**

12:00-12:30 *Speaker:* **Professor Kashif Nisar**
*SMIEEE, Faculty of Computing and Informatics,
University Malaysia Sabah, Malaysia*
Title: Efficient Producer of Mobility Support in Named Data
Networking and Internet of Things

12:30-13:00 *Speaker:* **Professor Alexey Markov**
*Information Security Department
Bauman Moscow State Technical University, Russia*
Title: Issues and Solutions in the Field of the Software
Security.

13:00–13:10 **Group photo (location: Main Hall)**

13:10–14:00 **Lunch**

AFTERNOON – 17 October 2018

14:00–16:00 PARALLEL TUTORIAL SESSION

- Location:** *Speaker: Professor Netra Pal Singh*
Hall A *Information Management Area, Management
Development Institute, Gurgaon, India*
Title: Ensemble Methods in Data Mining.
- Hall B** *Speaker: Professor Damir Yeliussizov*
*Faculty of Information Technology,
Kazakh-British Technical University, Kazakhstan*
Title: Applications of Spectral Graph Theory.
- Hall C** *Speaker: Professor Ramesh G. Kini*
*Faculty of Information Technology,
Analytics, Economic Growth and Development and
Climate Change*
Title: Applications of Spectral Graph Theory.

16:00–16:30 Coffee Break

16:30-19:00 Sightseeing City Tour in Almaty (Kok Tobe)

AICT2018 International Conference



OCTOBER, 2018

Location:
al-Farabi Kazakh National University

18 October 2018

Location: al-Farabi Kazakh National University

Address: 71 al-Farabi Ave., Almaty

09:30–10:00 | **Registration**

10:00–10:40 | **WELCOME AND KEYNOTE SESSION**

**Hall: Main
Convention**

Welcome Speech and Moderation:

Professor Ualsher Tukeyev

*Dean of the Faculty of Information Technologies,
al-Farabi Kazakh National University, Kazakhstan*

Speaker: Assoc.Prof. Madina Mansurova

*Department of Computer Science, Al-Farabi Kazakh
National University, Kazakhstan*

Title: Design of K-Means clustering algorithm in PGAS
based Mapreduce framework

10:40–11:00 | **Coffee Break**

11:00–14:00 | **CONCURRENT TECHNICAL SESSIONS**

14:00–15:00 | **Lunch**

15:00–18:80 | **Medeo Gourage Tour (ticket)***

19:00 | **Banquet Dinner (restaurant Pugasov) (ticket)***

* - Take your ticket at the registration desk.

SESSION 1

BIG DATA MANAGEMENT AND APPLICATION

Session Co-Chairs:

Time: 11:00–14:00

Hall: 416

14:00–15:00 Lunch

1. A model based on network interaction to identify influential users in the social network graph

by *Rahim Rashidi, Farugh Katani, Saeid Usefpour, Azad Dehgan, Islamic Azad University, Zanjan, Iran.*

2. Multi-criteria decision support system for RES evaluation

by *Mukhamediev R., Kazakh National Technical University, Almaty, Kazakhstan; Mustakayev R., Yakunin K., Institute of Informational and Communication Technologies, Almaty, Kazakhstan; Kiseleva S., Lomonosov Moscow State University, Moscow, Russia; Gopejenko V., ISMA University, Riga, Latvia.*

3. Comparative study of the classification models for prediction of bank telemarketing

by *Elzhan Zeinulla, Karina Bekbayeva, Adnan Yazici, Nazarbayev University, Astana, Kazakhstan.*

4. Automated language detection in the global monitoring systems of the information space with big data

by *Mais Farkhadov, Sergey Kalegin, V.A. Trapeznikov Institute of Control Sciences of RAS, Moscow, Russia; Mukhabbat Farkhadova, RUDN University, Moscow, Russia.*

5. Development and investigation of adaptive firewall algorithm to protect the software-defined infrastructure of multi-cloud platforms

by *Irina Bolodurina, Denis Parfenov, Vadim Torchin, Orenburg State University, Orenburg, Russia.*

6. Solving the Reverse Problems of Pharmacokinetics for a Linear Two-Compartment Model with Absorption

by *Baydaulet A. Urmashiev, Aisulu T. Tursynbay, Almas N. Temirbekov, Aidana B. Amantayeva, Kazakh National University named after al-Farabi, Almaty, Kazakhstan.*

7. Part-of-Speech Tagging for Azerbaijani Language

by *Samir Mammadov, Samir Rustamov, Ali Mustafali, Ziyaddin Sadigov, Rasim Mollayev, ADA University, Baku, Azerbaijan; Zamir Mammadov, Azerbaijan State Pedagogical University, Baku, Azerbaijan.*

8. Modelling the heterogeneous materials dielectric response

by *N.V. Arinova, A.T. Kadyroldina, D.A. Raulov, M.G. Barkhatov, O.Yu. Mutasova, D. Serikbaev East Kazakhstan state technical university, Ust-Kamenogorsk, Kazakhstan; A.B. Arinova, National Research Tomsk Polytechnic University, Tomsk, Russia.*

9. API-Sociology and Google Global society: confluence of factors for political and economic awareness

by Lev Mazelis, Dariya Yakovleva, Andrey Mazelis, Vladivostok State University of Economics and Service, Vladivostok, Russia; Olga Kolesnichenko, Nina Shamshurina, Anna Zykova, I.M. Sechenov First Moscow State Medical University, Moscow, Russia; Yuriy Kolesnichenko, Uzgraph.ru, Moscow, Russia; Ivan Grigorevsky, National Supercomputing Technology Platform, Pereslavl Zalessky, Russia.

SESSION 2.1 DATA MINING AND DATA ENGINEERING

Session Co-Chairs:

Time: 11:00–14:00

Hall: 408

14:00–15:00 Lunch

1. Using quantum mechanical framework for language modeling and information retrieval

by *Platonov A.V., Poleschuk E.A., Bessmertny I. A., Gafurov N. R., ITMO University, Saint Petersburg, Russian Federation.*

2. Comparative Analysis of Data Mining Models for Classification for Small Data Set

by *N P Singh, Nakul Gupta, Management Development Institute, Gurugram, India.*

3. The Ontology-Based Event Mining Tools for Monitoring Global Processes

by *Polina Abrosimova, Irina Shalyaeva, Lyudmila Lyadova, National Research University Higher School of Economics, Perm, Russian Federation.*

4. Automatic Typos Detection in Bug Reports

by *Behzad Soleimani Neysiani, Seyed Morteza Babamir, University of Kashan, Kashan, Esfahan, Iran.*

5. Analysis of Chronic Kidney Disease Dataset by Applying Machine Learning Methods

by *Yedilkhan Amirgaliyev, Institute of Information and Computing Technologies (IICT), Almaty, Kazakhstan; Shahriar Shamiluulu, Azamat Serek, Suleyman Demirel University, Kazakhstan.*

6. Document and Word-level Language Identification for Noisy User Generated Text

by *Zhanibek Kozhirbayev, National Laboratory Astana, L.N. Gumilyov Eurasian National University, Astana, Kazakhstan; Zhandos Yessenbayev, Aibek Makazhanov, National Laboratory Astana, Astana, Kazakhstan.*

7. Mining Term Association Rules from Unstructured Text in Azerbaijani Language

by *Abzetedin Adamov, Center for Data Analytics Research (CeDAR), ADA University, Azerbaijan.*

8. Initial Normalization of User Generated Content: Case Study in a Multilingual Setting

by *Bagdat Myrzakhetmetov, Zhandos Yessenbayev and Aibek Makazhanov, National Laboratory Astana, Astana, Kazakhstan.*

9. Development and research of temporal RVTI grammar for workflow diagrams processing

by *A.N. Afanasyev, N.N. Voit, S.Yu.Kirillov, M.E.Uhanova, Ulyanovsk State Technical University, Ulyanovsk, Russia.*

10. Computer assessment of how well a person visually recognizes verbal Russian speech

by Myasoedova M.A., Myasoedova Z.P., V. A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences, Moscow, Russia.

**SESSION 3
HIGH PERFORMANCE COMPUTING AND MACHINE
LEARNING**

Session Co-Chairs:

Time: 11:00–14:00

Hall: 409

14:00–15:00 Lunch

1. Outlier Detection Based on Majority Voting: A Case Study on Real Estate Prices

by Rıza Özçelik, Boğaziçi University, Istanbul, Turkey; Salih Bayar, Marmara University, Istanbul, Turkey.

2. Common Movement Prediction using Polynomial Regression

by Timur Bakibayev, Almaty Management University, Almaty, Kazakhstan; Akbota Kulzhanova, Al-Farabi Kazakh National University, Almaty, Kazakhstan.

3. Empirical Study of Online News Classification Using Machine Learning Approaches

by Samir Rustamov, Umid Suleymanov, Murad Zulfugarov, Orkhan Orujov, Nadir Musayev, Azar Alizade, ADA University, Baku, Azerbaijan .

4. Design of K-means clustering algorithm in PGAS based Mapreduce framework

by Shomanov A.S., National Laboratory Astana, Astana, Kazakhstan; Mansurova M.E., Al-Farabi Kazakh National University, Almaty, Kazakhstan; Nugumanova A.B., Sarsen Amanzholov East Kazakhstan State University, Ust-Kamenogorsk, Kazakhstan.

5. Implementation of the Two-Dimensional Elliptic Equation Model in LuNA Fragmented Programming System

by Beimbet Daribayev, Danil Lebedev, Al-Farabi Kazakh National University, Almaty, Kazakhstan; Vladislav Perepelkin, ICMMG SB RAS, Novosibirsk, Russia; Darkhan Akhmed-Zaki, University of International Business, Almaty, Kazakhstan.

6. Self-Driving Car Steering Angle Prediction Based On Deep Neural Network An Example Of CarND Udacity Simulator

by M.V. Smolyakov, A.I. Frolov, V.N. Volkov, Orel State University, Orel, Russia; I.V. Stelmashchuk, The Academy of the Federal Guard Service of the Russian Federation, Orel, Russia.

7. Blending Situation Awareness with Machine Learning to Identify Children's Speech Disorders

by Maria Helena Franciscatto, Celio Trois, Joao Carlos Damasceno Lima, Iara Augustin, Universidade Federal de Santa Maria, Santa Maria, Brazil.

8. Removing Disabilities: Controlling Personal Computer Through Head Movements and Voice Command

by Muhammad Asad, Rahman Wali, Muhammad Zubair Rehman, Shafique Ahmed, Abdur Rehman, Abdul Wadood, Semad Siddiqui, Muhammad Iqbal, The University

of Lahore, Sihala, Islamabad, Pakistan; Maria Imdad, Afia Zafar, H M Faisal Bhatti, The University of Lahore, Lahore, Pakistan.

9. Hardware and Software Support of Technological Processes of Complex Systems

by Aizhan Erulanova, Gulzhan Soltan, Information Technology and Energy D. Serikbayev East Kazakhstan state technical university (Oskemen), Kulmira Zhanyrbayeva, Gulzhanat Yessenbekova, Kazakh National Academy of art (Almaty), Zheniskul Zhantassova, Aizhan Tlebalidina, S. Amanzholov East Kazakhstan State University (Oskemen), Kazakhstan

**SESSION 4
CYBER SECURITY ISSUES**

Session Co-Chairs:

Time: 11:00–14:00

Hall: 401

14:00–15:00 Lunch

1. Reliability assessment method for geographically distributed information systems

by *G.P. Akimova, A.V.Solovyev, I.A. Tarkhanov, Federal Research Center "Computer Science and Control" of Russian Academy of Sciences, Moscow, Russia.*

2. The base of speech structural units of Kazakh language for the synthesis of speech-like signals

by *Yerzhan N. Seitkulov, Seilkhan N. Boranbayev, Banu B. Yergaliyeva, Sabyrzhan K. Atanov, Gumilyov Eurasian National University, Astana, Kazakhstan; Henadzi V. Davydau, Aleksandr V. Patapovich, Belarusian state university of informatics and radioelectronics, Minsk, Belarus.*

3. Current Taxonomy of Information Security Threats in Software Development Life Cycle

by *Alexander V. Barabanov, Maksim I. Grishin, Alexey S. Markov, NPO Echelon, Moscow, Russia; Valentin L. Tsirlov, Bauman MSTU, Moscow, Russia.*

4. Security and Privacy in VANETs

by *Nazira Kaibalina, Mona A. E. Rizvi, Nazarbayev University, Astana, Kazakhstan*

5. Quantitative determination of masking degree of signals by informational-entropic analysis

by *Zeinulla Zhanabaev, Scientific-Research Institute of Experimental and Theoretical Physics, Almaty, Kazakhstan; Tatyana Grevtseva, Sayat Akhtanov, al-Farabi Kazakh National University, Almaty, Kazakhstan.*

6. Utilization of Fuzzy Mathematics for Security Model of a System

by *K.S. Duisebekova, T. Duisebekov, International Information Technology University, Almaty, Kazakhstan.*

7. LAN security analysis and design

by *Zoltán Balogh, Štefan Koprda, Jan Francisti, Constantine the Philosopher University in Nitra, Nitra, Slovakia.*

8. Providing Location Privacy Using Fake Sources in Wireless Sensor Networks

by *Ulugbek Adilbekov, Anar Adilova, Sain Saginbekov, Nazarbayev University, Astana, Kazakhstan.*

9. How to Estimate Reliability of a Network with Movable Nodes?

by *Mais Farkhadov, V.A. Trapeznikov Institute of Control Sciences of RAS, Olga Blinova, V.A. Trapeznikov Institute of Control Sciences of RAS / Moscow Technical University of Communications and Informatics, Moscow, Russia.*

**SESSION 5
EMERGING TRENDS AND TECHNOLOGIES IN ICT
APPLICATION**

Session Co-Chairs:

Time: 11:00–14:00

Hall: 201

14:00–15:00 Lunch

- 1. Calculating the priorities of user problems in software development**
by A. Sapunkov, T. Afanasieva, Ulyanovsk State Technical University, Ulyanovsk, Russia.
- 2. Precedent-Oriented Geometrical Modeling of the Parts and Assembly Units of an Aircraft Pipeline**
by P. Sosnin, P. Pavlov, Ulyanovsk State Technical University, Ulyanovsk, Russia.
- 3. The Analysis and Simulation of Fog-computing-based Information and Control System Reliability**
by Eduard Melnik, Southern Scientific Center of the Russian, Rostov-on-Don, Russia; Anna Klimenko, Vladislav Klimenko, Southern Federal University, Taganrog, Russia.
- 4. Reversibility in Component-based Programming Language**
by Vaidas Giedrimas, Panevezys University of Applied Sciences, Panevezys, Lithuania.
- 5. Development trends in the field of automotive industry and their impact on vocational training**
by Alena Hašková, Constantine the Philosopher University, Nitra, Slovak Republic; Martin Zatkalík, Upper Secondary Vocational School for Transport, Bratislava, Slovak Republic.
- 6. Analyzing Effectiveness of the Active Dampers in Vibration Suppression of a Test Bridge**
by Ali Akbar Shah, B.S. Chowdhry, Mehran University of Engineering and Technology, Jamshoro, Pakistan.
- 7. Pressure sensitive shoe insoles and socks for rehabilitation applications**
by Josef Langer, Florian Eibensteiner, Jürgen Peterka, Univ. of Applied Sciences of Upper Austria, Hagenberg, Austria; Philipp Knaack, CDE Communications Data Engineering GmbH, Hagenberg, Austria.
- 8. Proposal of Learning Analytics Architecture Integration into University IT Infrastructure**
by Martin Drlík, Ján Skalka, Peter Švec, Jozef Kapusta, Constantine the Philosopher University in Nitra, Nitra, Slovakia.
- 9. Optimization of energy-saving “hot” pumping modes**
by E.S. Makhmotov, B.K. Sayakhov, AO "KazTransOil", Astana, Kazakhstan; T.T. Bekibayev, U.K. Zhabbasbayev, G.I.Ramazanova, KazNRTU after K.I. Satbayev, Almaty, Kazakhstan.

10. Development and implementation of the algorithm of differential diagnostics

by Indira Uvaliyeva, Saule Belginova, Aigerim Ismukhamedova, D. Serikbayev East Kazakhstan state technical university, Ust-Kamenogorsk, Kazakhstan.

AICT2018 International Conference



OCTOBER, 2018

Location:
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Address: 1/1 Abylai Khan Street, Kaskelen, Almaty

10:00–10:40

WELCOME AND KEYNOTE SESSION

Hall: Main

Welcome Speech and Moderation:

Dr. Shirali Kadyrov

Suleyman Demirel University, Kazakhstan

Speaker: Assist.Prof. Andrey Bogdanchikov

Suleyman Demirel University, Kazakhstan

Title: Using HIPI in analyzing of large amounts of images on Hadoop platform.

10:40–11:00

Coffee Break

11:00–13:30

CONCURRENT TECHNICAL SESSIONS

13:30–14:20

Lunch

SESSION 2.2
DATA MINING AND DATA ENGINEERING

Session Co-Chairs:

Time: 11:00–13:30

Hall: A

1. Adaptive finite ring neural network

by *Aleksey Evdokimov, North-Caucasus Federal University, Nevinnomyssk, Russia; Michael Afonin, TeploEnergoServis Ltd, Nevinnomyssk, Russia.*

2. Determination of Patient's Hearing Sensitivity using Data Mining Techniques

by *Ersin Elbasi, Aymen Zreikat, American University of the Middle East, Kuwait; Demet Kaya Ayanoglu, Bilgi-Tek, Ankara, Turkey.*

3. A posteriori Fractal Characteristics Change Point Detecting Algorithm for Time Series

by *Chervova A.A., Pashchenko F.F., V.A. Trapeznikov Institute of Control Sciences of RAS, Moscow, Russia; Filaretov G.F. National Research University "Moscow Power Engineering Institute".*

4. Research of Simple Genetic Algorithm Parameters for Estimating Duration of the Elements of the "Work-Rest" Cycle of a Production Worker

by *Alexander Nikolaevich Varnavsky, National Research University Higher School of Economics, Moscow, Russia.*

5. Named Entity Recognition Through Bidirectional LSTM In Natural Language Texts Obtained Through Audio Interfaces

by *Gafurov N. R., Bessmertny I. A., Platonov A. V., Poleshchuk E. A., Vasiliev A. V., ITMO University, Saint-Petersburg, Russia.*

6. Development of conceptual foundations of medicostatistical data mining

by *Gulara Muradova, Azerbaijan Technical University, Baku, Azerbaijan.*

7. Parametric Optimization of the Controllers in an Adaptive Fuzzy Control System

by *Kudinov Y.I., Pashchenko F.F., Pashchenko A.F., V.A. Trapeznikov Institute of Control Sciences, Moscow, Russia; Parshincev D.V., Kelina A.Y., Lipetsk State Technical University, Lipetsk, Russia.*

8. A greedy clustering algorithm based on minimum spanning tree

by *Yeskendir Sultanov, Zhaniya Sultanova, International Information Technology University, Almaty, Kazakhstan.*

9. Lexicon-free stemming for Kazakh language information retrieval

by *Ualsher Tukeyev, Aliya Turganbayeva, Balzhan Abduali, Diana Rakhimova, Dina Amirova, Aidana Karibayeva, KanNU named after al-Farabi, Almaty, Kazakhstan.*

SESSION 6
COMMUNICATION, NETWORK AND HARDWARE

Session Co-Chairs:

Time: 11:00–13:30

Hall: B

1. A Software System for Risk Management of Information Systems

by Askar Boranbayev, Nazarbayev University, Astana, Kazakhstan; Seilkhan Boranbayev, Assel Nurusheva, Kuanysh Yersakhanov, Yerzhan Seitkulov, L.N.Gumilyov Eurasian National University, Astana, Kazakhstan.

2. Implementing Cognitive Architecture Plan-Image to Search Tasks in Agent Models

by Aleksandra Mashkova, Orel State University named after I.S. Turgenev, Moscow, Russia; Olga Savina, Orel State University named after I.S. Turgenev, Belgorod State University, Belgorod, Russia; Eugene Mashkov, Orel State University named after I.S. Turgenev, Orel, Russia.

3. RSSI Based Bluetooth Low Energy Indoor Positioning

by Aigerim Mussina, Sanzhar Aubakirov, Al-Farabi Kazakh National University, Almaty, Kazakhstan.

4. Fractal Antennas in Telecommunication Technologies

by Z.Zh. Zhanabaev, M.K. Ibraimov, A.K. Imanbayeva, B.A. Karibayev, T.A. Namazbayev, Al-Farabi Kazakh National University, Almaty, Kazakhstan.

5. An Improved q-Least Mean Square Algorithm for Sparse System Identification

by Cemil Turan, Suleyman Demirel University, Almaty, Kazakhstan.

6. Service-oriented routing in distributed self-organizing software-defined networks

by Yury A. Ushakov, Margarita V. Ushakova, Alexander E. Shukhman, Petr N. Polezhaev, Leonid V. Legashev, Orenburg State University, Orenburg, Russian Federation.

7. A Metamodel For Sensor-Based Mobile Applications

by Zhiyi Ma, Xiaoxi Wang, Hongjie Chen, Jinyang Liu, Peking University, Beijing, China; Xiao He, University of Science and Technology Beijing, Beijing, China.

8. Data Transmission Control Based on Hidden Markov Queuing Models

by Nikolay A. Kuznetsov, Dmitry V. Myasnikov, Kotelnikov Institute of Radio Engineering and Electronics (RAS), Moscow, Russia; Konstantin V. Semenikhin, Moscow Aviation Institute (National Research University), Moscow, Russia.

9. Development of the structure of a multicomponent filter based on the principle of adaptive aggregation of filters

by Ch.A. Alimbayev, K.A. Ozhikenov, Zh.N. Alimbayeva, Satbayev University, Almaty, Kazakhstan; O.N. Bodin, Penza State University, Penza, Russian Federation; E.B. Mukazhanov, Zhetysu State University named after I.Zhansugurov, Taldykorgan, Kazakhstan.

SESSION 7
ICT IN BUSINESS ADMINISTRATION, GOVERNANCE, FINANCE
AND ECONOMY

Session Co-Chairs:

Time: 11:00–13:30

Hall: C

1. Eye contact and trust online The effect of profile pictures on Airbnb booking

by Peter Broeder, Elena Remers, Tilburg University, Tilburg, the Netherlands.

2. Simulation of Earth's Protection by Solar Sail from Asteroid Hazard

by Nikolaeva Elizaveta, Starinova Olga, Starinova Olga, Samara National Research University, Samara, Russia; Alipova B., International University of information technology, Almaty, Kazakhstan.

3. Integrating Artificial Agent in the Simulation Model of the Russian Federation Spatial Development

by Aleksandra Mashkova, Orel State University named after I.S. Turgenev, Moscow, Russia; Olga Savina, Orel State University named after I.S. Turgenev, Belgorod State University, Orel, Russia; Mamatov A.V., Belgorod State University, Belgorod, Russia.

4. An Intelligent System to Manage the Spare Parts Logistics in Circular Economy

by Irina Makarova, Ksenia Shubenkova, Polina Buyvol, Eduard Mukhametdinov, Kazan Federal University, Naberezhnye Chelny, Russia; Kuanysh Abeshev, Almaty Management University, Almaty, Kazakhstan.

5. Tools for Internet Competitive Intelligence Based on Ontology

by Viacheslav Lanin, National Research University Higher School of Economics, Perm, Russian Federation.

6. e-Government Applications In Turkey: e-Despatch Advice Data Model and Architecture

by Ilknur Gur Nalcaci, Yalcin Tercan, Hakan Kutluay, Idea Technology Solutions Inc., Istanbul, Turkey.

7. Formal Models of Monitoring of Dispersed Socio-Economic Objects

by Pavel V. Senchenko, Anatoly A. Sidorov, Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russian Federation.

8. Mathematical simulation of interplanetary flight: model of solar sail surface oscillations

by Alipova Bakhyt, International Information Technology University, Almaty, Kazakhstan; Chekashov A. S., Gorbunova I. V., Starinova O. L., Institute of Space Rocket Engineering of Samara University, Samara, Russia

9. The Discrete-Continuous Laplace Transform of the Multi-Point Model of Radiation Heat Exchanger

by Pikina Galina, National Research University "MPEI"/ National Research University "MPEI", Pashchenko Feodor, The Trapeznikov Control Sciences Institute, Moscow, Russia

**SESSION 8
ICT IN EDUCATION AND RESEARCH**

Session Co-Chairs:

Time: 11:00–13:30

Hall: D

13:30–14:20 Lunch

1. Multi-Alternativity Information Technologies in Thermal Processes Control Systems

by Semen Podvalny, Eugeny Vasiljev, Voronezh State Technical University, Voronezh, Russia.

2. New Approach to Activity Evaluation for Social Network Based Student Collaboration

by Vyacheslav Zolotarev, Reshetnev University, Krasnoyarsk, Russia; Ekaterina Maro, Southern Federal University, Rostov-on-Don, Russia; Svetlana Kulikova, Russian University of Economics, Moscow, Russia.

3. Predator-Prey Interaction Multi-Agent Modelling

by Yerkezhan Seitbekova, Kazakh-British Technical University, Almaty, Kazakhstan; Timur Bakibayev, Almaty Management University, Almaty, Kazakhstan.

4. Pneumatic and hydraulic systems in tertiary education

by Gabriel Báñez, Alena Hašková, Danka Lukáčová, Constantine the Philosopher University in Nitra, Nitra, Slovak Republic.

5. Development of the educational software based on a game engine

by Yevgeniya Daineko, Madina Ipalakova, Dana Tsoy, Zhiger Bolaov, Yersultanbek Yelgondy, Akmedi Shaipiten, International Information Technology University, Almaty, Kazakhstan.

6. Hackathon as a Project Based Teaching Tool Employing Programming Challenge in the Class

by Bolatzhan Kumalakov, Alla Kim, al-Farabi Kazakh National University, Almaty, Kazakhstan; Salima Mukhtarova, Assel Shukurova, Almaty Management University, Almaty, Kazakhstan; Natalya Khon, Turan University, Almaty, Kazakhstan.

7. Application of ICT for calculation of Boltzmann kinetic equation for continuous weakly ionized plasma irradiated by fission fragments

by Sandybeck Kunakov, Zhiger Bolatov, Yevgeniya Daineko, International Information Technology University, Almaty, Kazakhstan; Edward Son, Moscow Institute of Physics and Technology, Dolgoprudny, Russia; Aigerim Shapiyeva, Joint Institute for High Temperatures of the Russian, Moscow, Russia.

8. Methodology of formation of educational resources on the basis of ontology

by Bulat Kubekov, Vitaliy Naumenko, Anar Utegenova, Institute of Information and Computational Technologies, Almaty, Kazakhstan; Natalya Zhaksybaeva, "Turan" university, Almaty, Kazakhstan.

**9. Priscilla – Proposal of System Architecture for Programming
Learning and Teaching Environment**

*by Ján Skalka, Martin Drlík, Constantine the Philosopher University, Nitra,
Slovakia.*

13:30–14:20 Lunch

14:20–14:40 Campus Tour

**14:00–14:20
Hall: Main**

CLOSING CEREMONY