PROGRAM

VIII International Conference on Computer Processing of Turkic Languages "TurkLang’2020"

October 18-20, 2020

Ufa 2020
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**CONFERENCE RUNNING ORDER**

**Venue:** Ufa, Prospekt Oktyabrya, 71

Ufa Federal Research Center of the Russian Academy of Sciences Order of the Badge of Honor Institute of History, Language and Literature

**Conference schedule:**

Greetings at the plenary session up to 20 minutes
Reports at the plenary session up to 20 minutes
Reports at breakout sessions up to 15 minutes

**Conference schedule:**

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Electronic corpora of Turkic languages |
| 16:15 - 17:00 | SECTION 2  
Machine translation systems and technologies |
| **October 19** | |
| 10:00 - 11:15 | SECTION 3  
Morphological and syntactic text processing systems |
| 11:15 - 12:45 | SECTION 4  
Formal models for Turkic languages |
| 14:00 - 14:30 | SECTION 5  
National localization of computer systems and terminology |
| 14:30 - 16:00 | SECTION 6  
Information technology in the conservation and study of Turkic languages |
| 16:00 – 17:00 | Closing of the conference |
PLENARY SESSION
October 18, 10:00 - 13:00

Conference opening
October 18, 10:00 - 10:30

1. **Psyanchin Aybulat**, Doctor of Geography, Professor, Director of the Order of the Badge of Honor Institute of History, Language and Literature of the Ufa Federal research center of the Russian Academy of Sciences, co-chair of the conference.


3. **Eshref Adali**, Professor, Director of the Department of computer engineering at Istanbul technical University (Istanbul, Turkey), co-chair of the conference.

4. **Sharipbaev Altynbek**, Doctor of technical Sciences, Director of the “Artificial Intelligence” Scientific Research Institute of the Eurasian National University named after L.N. Gumilyov (Nur-Sultan, Kazakhstan), co-chair of the conference.

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### Plenary scientific reports
October 18, 10:30 - 12:10

Chair: **Psyanchin Aybulat**, Doctor of Geography

Secretary: **Sirazitdinov Zinnur**, PhD in Philological Sciences

10:30-10:50  Doctor, professor **Eshref Adali, Ainur Zhumadillieva** (Istanbul, Turkey). *Comparisons in languages.*

10:50-11:10  Doctor of philology, corresponding member of RAS **Dybo Anna**, Doctor of philology **Krylov Sergey** (Institute of linguistics of RAS, Moscow, Russia). *On the possibilities of expanding the inventory of the universal metalanguage for grammatical glossing of texts in the Altaic languages.*

11:10-11:30  PhD in Philological Sciences **Sirazitdinov Zinnur** (Institute of History, Language and Literature of the Ufa Federal Research Center of the Russian Academy of Sciences, Ufa, Russia). *About corpus projects and the national corpus of the Bashkir language.*

11:50-12:10 PhD in engineering Khusainov Aidar, PhD in engineering Gatiatullin Ayrat, academician of the Academy of Sciences of the Republic of Tatarstan Suleymanov Djavdet, PhD in Physico-mathematical sciences Gilmullin Rinat Institute of Applied Semiotics of the Tatarstan Academy of Sciences, Kazan, Russia. *Towards the Creation of Machine Translation Systems Between Russian and Turkic Languages "TurkLang-7".*

12:10-13:30 Dinner

SEMINAR
«COMPUTATIONAL MODELS IN TURKIC LANGUAGE AND SPEECH»
October 18, 13:30 - 15:15
Chair: Khusainov Aidar


14:00-14:15 Navracsics Judit (University of Pannonia, Hungary), Darzhinova Liubov (The Education University of Hong Kong). *The use of PsychToolbox-3 for tracking bilingual sentence processing and comprehension.*

14:15-14:30 Kuchkarov Makhmudjon (New York Department of Education, New-York, USA), Kuchkarov Marufjon (Ferghana Polytechnic Institute, Uzbekistan). *From the "Movement Language" to the Human Language.*

14:30-14:45 Kozhirbaev Zhanibek, Yessenbayev Zhandos (Nazarbayev University, Nur-Sultan, Kazakhstan). *Kazakh text normalization using machine translation approaches.*

14:45-15:00 Zheltov Valerian, Zheltov Pavel (Chuvash State University, Cheboksary, Russia). *Logic programming operation and their application for language analysis.*

15:00-15:15 Zheltov Valerian, Zheltov Pavel (Chuvash State University, Cheboksary, Russia). *Symbol solvers for morphologic and syntax analysis.*

SECTION 1

Electronic corpora of Turkic languages

October 18, 15:15 - 16:15

Chair: Buskunbaeva Liliya


15:45-16:00 Salchak Aelita, Hertek Arzhaana, Oorzhak Baylak, Ondar Vyacheslav, Dalaa Sergej (Tuvan State University, Kyzyl, Russia). Electronic corpus of texts of the Tuvan language: possibilities of use in the educational process.

16:00-16:15 Chemyshev Andrey (Mari Scientific Research Institute of Language, Literature and History named after V.M. Vasilyev). Features of data representation in agglutinative language corpora.

SECTION 2

Machine translation systems and technologies

October 18, 16:15 - 17:00

Chair: Gilmullin Rinat

16:15-16:30 Abdurahmonova Nilufar (Alisher Navo'i Tashkent State University of Uzbek Language and Literature, Tashkent, Uzbekistan), Aripov Mirsaid (National University of Uzbekistan named after Ulugbek, Tashkent, Uzbekistan), Norov Abdusaid (Karshi State University, Karshi, Uzbekistan). Syntactic structures for ontological models (on the example of the Uzbek language).

16:30-16:45 Zheltov Valerian, Zheltov Pavel (Chuvash State University, Cheboksary, Russia). Development of a machine translation system from Chuvash to Russian.

16:45-17:00 Sabina Mammadzadeh (Institute of Information Technology of ANAS, Baku, Azerbaijan). The development of the National Transliteration System of Azerbaijan.
SECTION 3
Morphological and syntactic text processing systems
October 19, 10:00 - 11:15
Chair: Gatiatullin Ayrat

10:00-10:15 Dubrovina Margarita (St. Petersburg State University). *On the importance of the synchronic approach in the analysis of Turkic morphological forms.*

10:15-10:30 Abzhalova Manzura (Tashkent State University of Uzbek Language and Literature named after Alisher Navoi, Tashkent, Uzbekistan). *The role of language analysis of phraseological units in linguistic sentences.*

10:30-10:45 Ajupov Madehur (Institute of Applied Semiotics of the Tatarstan Academy of Sciences, Kazan, Russia). *Automatic database population for the Turkic morpheme portal using software processing of bilingual dictionaries.*

10:45-11:00 Jonathan North Washington (Swarthmore College, USA), Francis Tyers (Indiana University). *Why categorising Turkic non-finite verb forms correctly matters for NLP.*

11:00-11:15 Tokmashev Denis (Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia). *Morphonological variability in the Teleut language based on corpus data: problem statement.*

SECTION 4
Formal models for Turkic languages
October 19, 11:15 - 12:45
Chair: Shaekhov Marat

11:15-11:30 Mengliev Bahtier, Hamroeva Shahlo (Tashkent State University of Uzbek Language and Literature named after Alisher Navoi, Tashkent, Uzbekistan). *Modeling of affixes for the morphological analyzer of the Uzbek language.*

11:30-11:45 Hamroeva Shahlo (Tashkent State University of Uzbek Language and Literature named after Alisher Navoi, Tashkent, Uzbekistan). *Arrangement of morphemes for the database of the morphological analyzer of the Uzbek language.*

11:45-12:00 Hakimov Muftah (National University of Uzbekistan named after Mirzo Ulugbek, Tashkent, Uzbekistan), Kadirov B. (Karshi branch of Tashkent University of Information Technologies named after Muhammad ibn Musa al-Khwarizmi, Tashkent, Uzbekistan). *Algorithms for texts analyzing formed using an extensible input language.*

12:00-12:15 Pankov Pavel, Bayashorova Batygul (Institute of Mathematics of NAS of KR, Bishkek, Kyrgyzstan), Karabayeva Sonunbubu (Kyrgyz State University of

12:15-12:30 Mongush Choduraa (Tuva State University, Kyzyl, Russia). Methods of analysis of formal concepts to identify the style of the author of works of Tuvan folklore.

12:30-14:00 Dinner

SECTION 5
National localization of computer systems and terminology
October 19, 14:00 - 14:30
Chair: Sirazitdinov Zinnur

14:00-14:15 Khakimov Bulat (Institute of Applied Semiotics of the Tatarstan Academy of Sciences, Kazan, Russia). Using the Tatar language in Yandex search queries: some observations.

14:15-14:30 Ergesh Banu (Eurasian National University named after L.N. Gumilyov, Nur-Sultan, Kazakhstan). Analysis of the tone of comments in social networks based on the rules.

SECTION 6
Information technology in the conservation and study of Turkic languages
October 19, 14:30 - 16:00
Chair: Khakimov Bulat

14:30-14:45 Muzafarova Alina (Kazan Federal University, Kazan, Russia), Minullin Dmitry (Kazan Federal University, Kazan, Russia), Gafarova Vilusa (Institute of Applied Semiotics of the Tatarstan Academy of Sciences, Kazan, Russia). Cluster analysis of the texts of the lesson planning system "Electronic education of the Republic of Tatarstan”.

14:45-15:00 Kyzlasova Inga (Khakass State University named after N.F. Katanov, Abakan, Russia). Teaching the Khakass language in a multicultural educational and communication space.

15:00-15:15 Güllü Karanfil (Comrat state University, Comrat, Moldova). On the role of information technologies in the popularization of the Gagauz language.


15:30-15:45 Gubanov Alexey (Chuvash State University, Cheboksary, Russia). The problem of extracting knowledge based on Proverbs as precedents.
15:45-16:00  Ochirova Nina (Southern Scientific Center of RAS, Rostov-on-Don, Russia). Application of computer technologies in the study and preservation of the Kalmyk language.

CONFERENCE CLOSING

Discussion of reports and adoption of a resolution

October 19, 16:00 - 17:00