

The XIIth International Conference
"Speech and Computer"

SPECOM'2007

Organizer:
Moscow State Linguistic University
Moscow, Russia

PROGRAM

October 15–18, 2007

Moscow, Russia

Sunday, 14th of October

16.00 – 18.00

Registration

18.00 – 21.00

Welcome Reception

Monday, 15th of October

09.15 – 10.00

Registration (continued)

10.00 – 10.30

Official Opening of the Conference

(P a n s i o n a t , C o n f e r e n c e H a l l)

Irina Khaleeva

General Chair of SPECOM'2007

President of Moscow State Linguistic University, Russia

Welcome words:

Sergey Kolesnikov

Deputy Chairman of the Committee on Education and Science of the State Duma of the Russian Federation

Rodmonga Potapova

Chair of the Organizing Committee of SPECOM'2007

Moscow State Linguistic University, Russia

Mikhail Andreev

General Manager of "STEL – Computer Systems Ltd."

10.30 – 11.30

Invited Lecture

(P a n s i o n a t , C o n f e r e n c e H a l l)

Chair: R. Potapova; Co-Chair: M. Andreev

Fundamentals and Technical Challenges in Automatic Speech Recognition

Chin-Hui Lee

School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, USA

Monday, 15th of October

11.30 – 12.00

Coffee Break

Invited Lecture

12.00 – 13.00 (Pansionat, Conference Hall)
Chair: R. Potapova; Co-Chair: M. Andreev

Forensic Speaker Comparisons: a Phonetic Perspective

John Peter French

University of York, the United Kingdom

13.30 – 14.30

Lunch

Plenary Session 1

Keynote and Invited Speeches

14.30 – 18.00 (Pansionat, Conference Hall)
Chair: Yu. Marchuk; Co-Chair: V. Potapov

14.30 – 15.15 **A Review of R&D of Speech Technologies in Serbian and their Applications in Western Balkan Countries**

Vlado Delić

Faculty of Technical Sciences, University of Novi Sad, Serbia

15.15 – 16.00 **Syllable Phonetics as a Special Area of Speechology**

R.K. Potapova

Moscow State Linguistic University, Russia

16.00 – 16.30

Coffee Break

Reliability of the Verification of the Discrete Character of Discourse Prosodic Variations

16.30 – 17.15 Dimitar Popov

Laboratory of Applied Linguistics, Konstantin Preslavsky University of Shumen, Bulgaria

17.15 – 18.00 **Broadcast News Transcription with Automatic Speech Recognition**

Jean-Paul Haton

LORIA-INRIA Université Henri-Poincaré, Nancy 1, France

18.30 – 20.00

Welcome Party

Tuesday, 16th of October

Oral Session 1-A

Automatic Speech Recognition

(Pansionat, Dome Hall)

Chair: J.-P. Haton; Co-Chair: V. Chuchupal

09.45 – 11.30

09.45 – 10.00 **Effective Noise Subtraction and Dynamic Range Enhancement for In-Car Speech Recognition**

Weifeng Li, Hervé Bourlard

10.00 – 10.15 **Comparative Evaluation of MTF-based Feature Extraction for Speech Recognition in Reverberant Environments**

Xugang Lu, Masashi Unoki, and Masato Akagi

10.15 – 10.30 **Examining the Influence of Speech Frame Size and Number of Cepstral Coefficients on the Speech Recognition Performance**

Iosif Mporas, Todor Ganchev, Elias Kotinas, and Nikos Fakotakis

10.30 – 10.45 **Importance of Prosody for Dialogue Acts Recognition**

Pavel Král, Christophe Cerisara, Jana Klečková

10.45 – 11.00 **Two Level Discriminative Training for Audio Events Recognition in Sport Broadcasts**

Konstantin Biatov

11.00 – 11.15 **Word Verification Method for Automatic Speech Recognition**

M.T. Nguyen, V.J. Chuchupal

11.15 – 11.30 **Evaluation of the Effect of Prosodic Parameters on Gender Dependent Speech Recognition in Farsi Language**

D. Gharavian, S.M. Ahadi

11.30 – 12.00

Coffee Break

Oral Session 2-A

Speech Signal Analysis and Processing

(Pansionat, Mirror Hall)

Chair: M. Unoki; Co-Chair: A. Ronzhin

10.15 – 11.30

10.15 – 10.30 **Non-Linear Time Compressed Speech Playback Method**

Shin'ichi Takeuchi, Masahide Sugiyama

10.30 – 10.45 **Acoustic Correlates of Word Stress and Accent in Russian Spontaneous and Read-aloud Speech - Analysis of Finnish FL Learners of Russian**

Hanna Kärkkäinen, Riikka Ullakonoja, Viola de Silva

10.45 – 11.00 **Application of Target Tracking Methods to Pitch Determination of Speech Signals**

Özgül Salor, Mübeccel Demirekler

Tuesday, 16th of October

11.00 – 11.15 **Microphone Array Post-filter Based on Noise Power Attenuation Factor and A Priori Knowledge of the Noise Field Coherence**
Zoran M. Saric, Slobodan T. Jovicic, Marko Janev, Istvan I. Papp, Zoran S. Marceta

11.15 – 11.30 **A Way of Segmentation of Speech Recorded Simultaneously by Two Microphones**
Petra Fischerová, Vlasta Radová

11.30 – 12.00 **Coffee Break**

09.45 – 11.30 **Poster Session 1-A
 Automatic Speech Recognition**
 (Pansionat, Poster Hall 1)
Chair: A. Karpov; Co-Chair: S. Repalov

Language Model Adaptation Using Different Class-Based Models
Aleš Pražák, Pavel Ircing and Luděk Müller

Optimizing Distributed Speech Recognition System for Multi-User Real-Time Usage
Miroslav Holada, Martin Pelc

Continuous Training and the Use of the Unstable Dimension Observation Vectors for Speech Recognition Systems
M.Kotov, D. Lednov

A Spectrum Processing for Speech Recognition
Alexander Kolokolov

Acoustic Modeling for a Speaker-Independent Telephone-Based Spoken Dialog System
Kinfe Tadesse Mengistu, Marcel Katz, Andreas Wendemuth

Speech Recognition System for the Russian Speech
Bolotova Olga, Gusev Michael, Smirnov Valentin

Continuous Speech Segmentation on Phonemes
Vladimir Fedorov, Pavel Jurkov, Oleg Makarevich, Lyudmila Babenko

Two Sequence Kernels for the Classification of Speech Data
J. Goddard, A. E. Martínez, F. M. Martínez, H.L. Rufiner

11.30 – 12.00 **Coffee Break**

Tuesday, 16th of October

09.45 – 11.30 **Poster Session 2-A
 Speech Signal Analysis and Processing**
 (Pansionat, Poster Hall 2)
Chair: P. Pollák; Co-Chair: V. Antciperov

Speech Processing System Based on a Quantum Fourier Transform Circuit Simulator
Victor H. Tellez Arrieta, Antonio Campero, Cristina Iuga, Gonzalo I. Duchon

HMM-Based Phonetic Segmentation in Praat Environment
Petr Pollák, Jan Volín, Radek Skarnitzl

Noise Power Spectrum Estimation Using Time-Variant Spectral Smoothing and Low-Delay Minima Tracking
Nima Derakhshan, Ahmad Ayatollahi, Ahmad Akbari, Mohsen Rahmani

Modeling of ITU-T G.729 Speech Codec Using SIMULINK with Bit-width Optimization
Neda Kazemian Amiri, Sied Mehdi Fakhraie, and Gholam-Ali Hosein-Zadeh

Voice Activity Detection Using MFCC Features and Support Vector Machine
Tomi Kinnunen, Evgenia Chernenko, Marko Tuononen, Pasi Fränti, Haizhou Li

11.30 – 12.00 **Coffee Break**

09.45 – 11.30 **Poster Session 8-A
 Spoken and Written Language Corpora**
 (Pansionat, Poster Hall 3)
Chair: I. Nikolaeva; Co-Chair: T. Sherstinova

Towards an Automatic Process Chain for the Speech Corpora Annotation
O. Jokisch, S. Wittenberg, M. Cuevas, H. Hussein, G. Strecha, H. Ding and R. Hoffmann

STEL Speech Database for Speaker Recognition and Multispeaker Segmentation
Anna Shirokova

Balanced Corpus of Spoken Russian: Formation Principles and Data Acquisition
Elena Arkhipova, Natalia Bogdanova, Irina Brodt, Olga Ermolova, Elena Markasova, Tatiana Sherstinova

Speech Corpus and Main Strategies for Statistical Modeling of Prosody in Minority Languages
Tatiana Sherstinova, Gregory Martynenko, Marina Lublinskaya

11.30 – 12.00 **Coffee Break**

Tuesday, 16th of October

Oral Session 1-B

12.00 – 13.00

Automatic Speech Recognition
(Pansionat, Dome Hall)
Chair: Ch.-H. Lee; Co-Chair: A. Agranovsky

- 12.00 – 12.15 **A Novel Voice Activity Detection Approach Based on Low-Frequency Regions for Spectral Subtraction in Robust Speech Recognition**
Wen-Hsiang Tu and Jehi-wei Hung
- 12.15 – 12.30 **JLASER: An Automatic Speech Recognizer Written in Java**
Tomáš Pavelka, Kamil Ekštejn
- 12.30 – 12.45 **Interpretation of Continuous Ukrainian Pronunciation for Spoken Dictionary-Interpreter**
Taras Vintsiuk, Mykola Sazhok, Valentyna Yatsenko
- 12.45 – 13.00 **Acoustic-Phonetic Model Application for Syllable Speech Recognition Output Post-Processing**
Nina Vasylieva, Mykola Sazhok, Taras Vintsiuk, Gerard Chollet

13.30 – 14.30

Lunch

15.00 – 21.00

Sightseeing Tour (Moscow)

Oral Session 2-B

12.15 – 13.00

Speech Signal Analysis and Processing
(Pansionat, Mirror Hall)
Chair: V. Delić; Co-Chair: N. Fakotakis

- 12.15 – 12.30 **A Study on Robust and Accurate F0 Estimation in Reverberant Environments by Utilizing Complex Cepstrum Analysis**
Masashi Unoki and Toshihiro Hosorogiya
- 12.30 – 12.45 **Fourier-Gauss Transform – Speech Signal Decomposition into Sonels**
V.R. Zhenilo, M.V. Zhenilo, D.N. Kalyuzhny
- 12.45 – 13.00 **Extraction of Noise Robust Feature Vector and Speech Denoising**
A. Srinivas, P. Sircar, A. Banerjee

13.30 – 14.30

Lunch

15.00 – 21.00

Sightseeing Tour (Moscow)

Tuesday, 16th of October

Poster Session 1-B

12.00 – 13.00

Automatic Speech Recognition
(Pansionat, Poster Hall 1)
Chair: A. Karpov; Co-Chair: S. Repalov

- Morpho-Phonetic Tree Decoder for Russian**
Andrey Ronzhin, Anastasia Leontieva, Ildar Kagirov, Alexey Karpov
- Phone Recognition Driven Method for Creating Context-Dependent Phones**
Yuri Khokhlov, Vitali Kiselev, Ivan Tampel, Marina Tatarnikova
- Acoustic Model Management Strategies for Improved Automatic Transcription of Broadcast Programs**
Jindrich Zdansky, Petr Cerva, Jan Silovsky, Jan Nouza
- Robust PLP-Based Parameterization for ASR Systems**
Josef V. Psutka
- On the Use of Probabilistic Grammars in Speech Annotation and Segmentation Tasks**
Irina Nesterenko, Stéphane Rauzy
- An Approach to Generation of Word-Filler Set for a Keyword Spotting System Applying a Criterion of Maximum a Posteriori Probability**
S.A. Repalov, M.Y. Zulkarneev, N.G. Shamraev, P.S. Satunovsky

13.30 – 14.30

Lunch

15.00 – 21.00

Sightseeing Tour (Moscow)

Poster Session 2-B

12.00 – 13.00

Speech Signal Analysis and Processing
(Pansionat, Poster Hall 2)
Chair: P. Pollák; Co-Chair: V. Antciperov

- Fundamentals Frequency Definition Algorithm**
Vladimir P. Bondarenko, Anton A. Konev, Roman V. Mescheriakov
- A New Time-Temporal Speech Representation Based on a Correlative Multiscale Signal Processing**
Vjatcheslav Antciperov
- The Use of Computers for Auditory Analysis of Phrasal Prosody**
Andrew S. Bankov
- A MATLAB Simulation for Evaluating Conjugate-Structure Algebraic CELP (CS-ACELP) Algorithm**
Sara Najafzadeh, M. Amin Khajehnejad, M. Reza Ghajar, Afsaneh Nassery, Dr. Behjat Forouzandeh

Tuesday, 16th of October

13.30 – 14.30	Lunch
15.00 – 21.00	Sightseeing Tour (Moscow)

Poster Session 8-B	
12.00 – 13.00	Spoken and Written Language Corpora (Pansionat, Poster Hall 3) <i>Chair: I. Nikolaeva; Co-Chair: T. Sherstinova</i>

On Integral Multilevel Annotation of a Spoken Russian Corpus

Alexander Asinovsky, Irina Koroleva, Marina Rusakova, Anastassia Ryko, Nina Philippova, Svetlana Stepanova

"INFANTRU" and "CHILDRU":

Sounds and speech databases of Russian Children

Elena E. Lyakso, Michail A. Bogorad, Alexander V. Ostrouhov, Alexandra D. Gromova, Anna V. Kurazhova, Olga V. Frolova, Julia S. Gaikova

Hindi Corpora and Lexical Database: the Main Problems and Their Solutions

Ekaterina Klimina

On Building of Czech Spontaneous Speech Corpus

Kamil Ekštejn

13.30 – 14.30	Lunch
15.00 – 21.00	Sightseeing Tour (Moscow)

Wednesday, 17th of October

Oral Session 4-A	
10.00 – 11.30	Forensic Phonetics and Information Security (Pansionat, Dome Hall) <i>Chair: P. French; Co-Chair: T. Goloshchapova</i>

10.00 – 10.15 **Some Priority Trends in Forensic Phonetics Research in Russia**

R.K. Potapova, V.V. Potapov

10.15 – 10.30 **Voice Analysis Using the Lorenz Models**

Victor H. Téllez and Cristina Iuga

10.30 – 10.45 **Speech Recognition and Speaker Identification Techniques**

Tatyana V. Yermolenko, Ujin U. Fedorov

10.45 – 11.00 **Unknown Multi-Speaker Speech Clustering Based on a Novel Clustering Criterion**

Mohammad. H. Moattar, Mohammad. M. Homayounpour

11.00 – 11.15 **Using Parameters of Identical Pitch Contour Elements for Speaker Discrimination**

Natalia Smirnova, Alexey Starshinov, Tatiana Goloshchapova, Ilya Oparin

11.15 – 11.30 **Eigen Channel Method for Text-Independent Russian Speaker Verification**

Timur Pekhovsky, Ilya Oparin

11.30 – 12.00	Coffee Break
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Oral Session 3-A	
10.15 – 11.30	Text-to-Speech Conversion and Automatic Speech Synthesis (Pansionat, Mirror Hall) <i>Chair: B. Lobanov; Co-Chair: D. Popov</i>

10.15 – 10.30 **Speech Tempo Control in Automatic Speech Synthesis**
O.F. Krivnova

10.30 – 10.45 **A Prosodic Feature Extraction Engine for Data-Driven Speech Synthesis of Greek Language**

Georgios Giannopoulos, Panagiotis Zervas

10.45 – 11.00 **A CART approach for Duration Modeling of Greek Phonemes**

Alexandros Lazaridis, Panagiotis Zervas, Nikos Fakotakis, George Kokkinakis

Wednesday, 17th of October

11.00 – 11.15 **The Use of Diphone Variants in Optimal Text Selection for Finnish Unit Selection Speech Synthesis**
Elina Helander, Hanna Silén, Moncef Gabbouj

11.15 – 11.30 **Rate Dependent Vowel Reduction in German**
Benjamin Weiss

11.30 – 12.00 **Coffee Break**

09.45 – 11.30 **Poster Session 3-A
Text-to-Speech Conversion
and Automatic Speech Synthesis**
(Pansionat, Poster Hall 1)
Chair: V. Zhenilo; Co-Chair: I. Oparin

The Choice of Acoustic Units In Polish Voice Synthesis
Janusz Rafalko

Relationship between Intonation Contours, Punctuation Marks, and Syntactic Structure of Intonational Phrases
Tetyana Lyudovyk

Two-Pass Algorithm for Large Vocabulary Continuous Speech Recognition
Valeriy Pylypenko

Outline of a New Hybrid Russian TTS System
Ilya Oparin, Andre Talanov

An Overview of the AlfaNum Text-to-Speech Synthesis System
Milan Secujski, Vlado Delic, Darko Pekar, Radovan Obradovic, Dragan Knezevic

11.30 – 12.00 **Coffee Break**

09.45 – 11.30 **Poster Session 5-A
Multipurpose Multimodal and Multimedia
Information Processing; Man-Machine
Interface Development**
(Pansionat, Poster Hall 2)
Chair: L. Rothkranz; Co-Chair: Yu. Marchuk

Multimodal Man-machine Interface for Medical Assistance in Surgery
Peter Nechaev, Svetlana Chernakova, Alexander Nechaev, Alexey Karpov

The Influence of Video Sampling Rate on Lipreading Performance
Alin G. Chitu, Leon J.M. Rothkrantz

Multimodal High Level Fusion of Input Commands as a Semantic Goal-Oriented Cooperative Process
Kosta Gaitanis, Olga Vybornova, Monica Gemo, Benoit Macq

Wednesday, 17th of October

A Hybrid System for Audio Segmentation and Speech-Endpoint Detection of Broadcast News
Maria Markaki, Alexey Karpov, Elias Apostolopoulos, Maria Astrinaki, Yannis Stylianou, Andrey Ronzhin

Different Approaches to the Garbled Text Language Recognition Using the Data Compression Methods Ideas
A.Y. Kulay, S.Y. Melnikov

A Review of AlfaNum Continuous Automatic Speech Recognition System
Vlado Delić, Darko Pekar, Radovan Obradović, Nikša Jakovljević, Dragiša Mišković

A Dialogue Strategy for Supporting the User in Spoken Human-Machine Interaction
Milan Gnjatović, Dietmar Rösner

11.30 – 12.00 **Coffee Break**

09.45 – 11.30 **Poster Session 6-A
Computer-Mediated Communication
and Language Learning**
(Pansionat, Poster Hall 3)
Chair: G. Kedrova; Co-Chair: L. Komalova

Semantic Search Engine in a Multimedia Russian Sign Language Dictionary
Alexander Voskresenskij, Gennady Khakhalin

Customers' Requests in Estonian Institutional Calls: Form and Content
Tiit Hennoste, Olga Gerassimenko, Riina Kasterpalu, Mare Koit, Andriela Rääbis, Krista Strandson

Design of a Multi-Modal Information Kiosk for Aurally Handicapped People
Miloš Železný, Pavel Campr, Zdeněk Krňoul, Marek Hruz

A Computational Model of Infant Speech Development
Ian Spencer Howard, Piers Messum

Web-Service Enabled Voice Applications and Dialogue Optimization Techniques
Alexey Troshchenko, Mais Farkhadov

Evaluation of the Speaker Proficiency in a Pronunciation Tutoring System
Rainer Jäckel, Oliver Jokisch and Rüdiger Hoffmann

TIDE: A Testbed for Interactive Spoken Dialogue System Evaluation
Sebastian Möller, Klaus-Peter Engelbrecht, Michael Pucher, Peter Fröhlich, Lu Huo, Ulrich Heute, Frank Oberle

11.30 – 12.00 **Coffee Break**

Wednesday, 17th of October

Oral Session 1-C	
12.00 – 13.00	Automatic Speech Recognition (Pansionat, Dome Hall) <i>Chair: S. Krauwer; N. Bobrov</i>
12.00 – 12.15	Diagnostics of Speech Recognition: on Evaluating Feature Set Performance <i>Milos Cernak, Mohamed Benzeghiba and Christian Wellekens</i>
12.15 – 12.30	The Influence of Reverberation: Speech Recognition versus Human Perception <i>Rico Petrick, Oliver Jokisch and Ruediger Hoffmann</i>
12.30 – 12.45	Development of Key-Word Spotting System for the French Language <i>Agranovskiy A. V., Ivanov V. D., Repalov S. A., Satunovskiy P. S.</i>
12.45 – 13.00	Evaluating ASR Confidence Score Performance in Different Noisy Conditions <i>Theologos Athanaselis, Stelios Bakamidis, Ioannis Dologlou</i>
13.30 – 14.30 Lunch	
16.00 – 19.30 Sightseeing Tour (Moscow Region)	
20.00 – 23.00 Conference Dinner	
Oral Session 3-B	
12.15 – 13.00	Text-to-Speech Conversion and Automatic Speech Synthesis (Pansionat, Mirror Hall) <i>Chair: V. Chuchupal; Co-Chair: P. Zervas</i>
12.15 – 12.30	Subjective and Objective Assessment of TTS Voice Font Quality <i>Daniela Braga, Luís Coelho, Fernando Gil V. Resende Jr and Miguel Sales Dias</i>
12.30 – 12.45	AUP's Modeling of Speaker Specific Intonation Contour Peculiarities <i>Boris Lobanov, Liliya Tsurulnik, Oleg Sizonov</i>
12.45 – 13.00	Fusion of Dictionaries in Voice Creation and Speech Synthesis Task <i>Tatyana Polyakova, Antonio Bonafonte</i>
13.30 – 14.30 Lunch	
16.00 – 19.30 Sightseeing Tour (Moscow Region)	
20.00 – 23.00 Conference Dinner	

Wednesday, 17th of October

Poster Session 3-B	
12.00 – 13.00	Text-to-Speech Conversion and Automatic Speech Synthesis (Pansionat, Poster Hall 1) <i>Chair: V. Zhenilo; Co-Chair: I. Oparin</i>
New Language-Dependent Prosody Processor Module for Polish Text-To-Speech Synthesis Application <i>Krzysztof Popowski, Edward Szpilewski</i>	
Speech Corpus Phonetic Segmentation for TTS Synthesis <i>Boris Lobanov, Liliya Tsurulnik, Elena Karnevskaia</i>	
On Acoustic Phonetic Properties of the Russian Soft Vibrant <i>Vladimir Kouznetsov, Nikolay Bobrov</i>	
13.30 – 14.30 Lunch	
16.00 – 19.30 Sightseeing Tour (Moscow Region)	
20.00 – 23.00 Conference Dinner	
Poster Session 5-B	
12.00 – 13.00	Multipurpose Multimodal and Multimedia Information Processing; Man-Machine Interface Development (Pansionat, Poster Hall 2) <i>Chair: L. Rothkranz; Co-Chair: Yu. Marchuk</i>
Voice Controlled Center for Homes of Motor-Handicapped Persons <i>Jan Nouza, Josef Chaloupka, Petr Červa, Jindřich Žďánský, Jan Silovský, Martin Kroul, Zbyněk Mader</i>	
The Semantic Range of Spoken Dialogue Systems <i>Roman Mouček, Miloslav Konopík</i>	
Voice Controlled Chess Usable Also for Blind People <i>Martin Hošna, Miloslav Konopík</i>	
Slavonic TTS and SST Conversion for "Let's Fly" Dialogue System <i>Ruediger Hoffmann, Oliver Jokisch, Boris Lobanov, Liliya Tsurulnik, Edward Shpilewski, Bozhena Piurkowska, Andrey Ronzhin, Alexey Karpov</i>	
Problems of Human-Machine Communication via Speech <i>Alexey Rodin, Irina Sinitsyna</i>	

Wednesday, 17th of October

13.30 – 14.30	Lunch
16.00 – 19.30	Sightseeing Tour (Moscow Region)
20.00 – 23.00	Conference Dinner
12.00 – 13.00	Poster Session 6-B Computer-Mediated Communication and Language Learning (Pansionat, Poster Hall 3) <i>Chair: G. Kedrova; Co-Chair: L. Komalova</i>
	Virtual Education and E-Learning: Problems and Prospects <i>Komalova L.R.</i>
	Japanese Prominence with Different Focus in Affirmative Sentences Realised by Finnish L2 <i>Toshiko Isei-Jaakkola, Martti Vainio, Keikichi Hirose</i>
	Vocalizations Data of Early Speech Development in Finnish and Russian languages <i>Elena E.Lyakso, Maarit Silven</i>
13.30 – 14.30	Lunch
16.00 – 19.30	Sightseeing Tour (Moscow Region)
20.00 – 23.00	Conference Dinner

Thursday, 18th of October

Oral Session 4-B	
10.15 – 11.30	Forensic Phonetics and Information Security (Pansionat, Dome Hall) <i>Chair: P. French; Co-Chair: D. Popov</i>
10.15 – 10.30	Detection of Positive Psycho-Emotional Manifestations in Speech Signal <i>Slobodan T. Jovičić, Zoran Šarić, Miodrag Đorđević</i>
10.30 – 10.45	Speaker Identification: the Possibility of Speaker Identification on the Language Unknown to the Expert (Basing on the Russian and German languages) <i>Ratanova Evgenia</i>
10.45 – 11.00	Experimental Study of Tajik Vowels Formant Structure <i>Tatiana Goloshchapova</i>
11.00 – 11.15	A Cohort Methods for Score Normalization in Speaker Verification System, Acceleration of On-Line Cohort Methods <i>Zbyněk Zajíc, Jan Vaněk, Lukáš Machlica, Aleš Padrta</i>
11.15 – 11.30	Speech Distortion Assessment: Methodological and System Approach <i>Silvana Punišić, Slobodan T. Jovičić, Zoran Šarić</i>
11.30 – 12.00	Coffee Break
Oral Session 5	
10.15 – 11.30	Multimodal and Multimedia Information Processing (Pansionat, Mirror Hall) <i>Chair: V. Dolinsky; Co-Chair: N. Fakotakis</i>
10.15 – 10.30	Keyword Spotting in LVCSR Based Word Lattices for Large Multimedia Search <i>Zbyněk Tychtěl, Aleš Pražák</i>
10.30 – 10.45	MRI of Teeth Contours in Articulation Processes <i>G. Kedrova, N. Anisimov, L. Zaharov, O. Nikolaev</i>
10.45 – 11.00	On Search of Basic Units of Semantic Decoding of Speech Utterance <i>R.K. Potapova, M.V. Khitina, V.A. Dolinsky</i>
11.00 – 11.15	Extracting Geometric Lip Parameters for Audio-Visual Speech Recognition <i>Ivana Arsic, Ferran Martinez Mussons and Jean-Philippe Thiran</i>
11.15 – 11.30	On Two-Channel Decoding of Emotive Information in the Act of Foreign Language Communication <i>R.K. Potapova, V.V. Potapov</i>
11.30 – 12.00	Coffee Break

Thursday, 18th of October

Poster Session 4

10.00 – 11.30 Forensic Phonetics and Information Security

(Pansionat, Poster Hall 1)

Chair: V. Potapov; Co-Chair: T. Niemi-Laitinen

Intelligent Data Hiding in Speech Signals on the Basis of the Modification of Segment Pitch and Duration

Marina Ponomar

Exploring the Influence of Speaker Characteristics on Word Use in a Corpus of Spoken Language Using a Data Mining Approach

Pascal Wiggers, Leon J.M. Rothkrantz

Visual Speaker Identification for the Automatic TV Broadcast News Transcription

Josef Chaloupka

Improving Speaker Verification by Periodicity Based Voice Activity Detection

Ville Hautamäki, Marko Tuononen, Tuija Niemi-Laitinen, Pasi Fränti

Analysis of LSF frame selection in voice conversion

Elina Helander, Jani Nurminen, Moncef Gabbouj

Estimating the Number of Speakers for Speaker Tracking using a Hybrid of Bayesian Information Criterion and Ants Colony Clustering method

Mohammad. H. Moattar, Mohammad. M. Homayounpour

Research into a Speaker Identification Model Based on Dynamic Features

R. L. Grigoryan, S.A. Repalov

11.30 – 12.00

Coffee Break

Poster Session 7

Automatic Text Processing and Linguistic Modelling

(Pansionat, Poster Hall 2)

Chair: A. Baranovich; Co-Chair: I. Nikolaeva

10.00 – 11.30

The Experimental Analysis of the Differences between the Results of the Natural Language Text Processing Made by the Computer and the Human

Rodmonga Potapova, Irina Nikolaeva

Improving Tokenization of Clitics in Some Statistical Processing Tools for Arabic: AlwAw Coordinating Conjunction as a Case Example

Nahed Abul-Hassan, Salwa Hamada

Towards Semantic Analysis of Spoken Queries

Miloslav Konopík, Roman Mouček

Thursday, 18th of October

Concept of Operated Evolution of a Natural Language:

Problem Statement

Andrew E. Baranovich

Modeling of Formation of Extralinguistic Factors Influencing the Attitude of the Recipient towards Language Messages

A.A. Zhdanov, T.S. Naumkina

Correlation between Prosody and Intonation

G. H. Bakieva

Pragmatic Potential of Verbal Information: Aspects of Mathematical Modeling

Andrew E. Baranovich

Creation of Universe and Co-occurrence of Antonyms: Research Based on Corpus

Yoshio Narisawa

Quantitative Model for Word Association Data

Vladimir Dolinsky

11.30 – 12.00

Coffee Break

Plenary Session 2

Keynote and Invited Speeches

(Pansionat, Conference Hall)

Chair: R. Potapova; Co-Chair: B. Lobanov

12.00 – 13.30

12.00 – 12.45

CLARIN: Common Language Resources and Technology

Infrastructure

Steven Krauwer

Utrecht University, the Netherlands

12.45 – 13.30

New Aspects and Developments in the Machine

Translation Domain

Yu. N. Marchuk

Moscow State Linguistic University, Russia

14.00 – 15.00

Lunch

15.30 – 16.00

Closing Ceremony

Map of the Hotel Complex "Bor" Territory

