

“SpeD 2007” PROGRAM

May 10

Romanian Academy – Iași Branch, Auditorium

9:30 – 10:15

Welcome from the Organizing Committee and Foreword, *Corneliu Burileanu*, University “Politehnica” of Bucharest, Faculty of Electronics, Telecommunications and Information Technology, *Horia-Nicolai Teodorescu*, c.m. of the Romanian Academy, Technical University of Iași.

Welcome addresses from:

- » **Acad. Viorel Barbu**, President of the Iasi Branch of the Romanian Academy
- » **Dumitru Oprea**, Rector of the University A.I. Cuza of Iasi

10:15 – 10:30 Break

10:30 – 13:00

Speech and Speaker Recognition

Chairs: **Jean-Paul Haton, Corneliu Burileanu**

1. “Improving the Robustness of Automatic Speech Recognition”, *Jean-Paul Haton*, LORIA/INRIA, Université Henri-Poincaré, Nancy 1, France.
2. “Automatic Speech Recognition for Under-Resourced Languages”, *Laurent Besacier, Viet-Bac Le*, Laboratoire d’Informatique de Grenoble, Team GETALP, Institut National Polytechnique de Grenoble, France.
3. “Landmark Based Large Vocabulary Continuous Speech Recognition”, *Daniel Moraru, Guillaume Gravier*, Institut de Recherche en Informatique et Systèmes Aléatoires, Rennes, France.
4. “Results Obtained in Speaker Recognition Using Gaussian Mixed Models”, *Marieta Gâta*, Gavril Todorean***, *Department of Mathematics and Computer Science, University of Baia Mare, Romania, **Department of Communications, Faculty of Electronics and Telecommunications, Technical University of Cluj-Napoca, Romania.
5. “Automatic Speaker Verification Experiments Using a Continuous Speech Recognizer”, *Doru Munteanu*, Constantin Pintilie**, Laurențiu Apostol***, *Military Technical Academy, Bucharest, Romania, **UTI SYSTEMS, Romania.

15:00 – 18:00

Human-Computer Dialogue; Text-to-Speech Synthesis; Emotions and Expressive Speech Synthesis

Chairs: **Jean Caelen, Horia-Nicolai Teodorescu**

1. “Generic Architecture for Natural Language Generation in Spoken Human-Computer Dialogue”, *Vladimir Popescu*^{**}, *Jean Caelen*^{*}, *Corneliu Burileanu*^{**}, ^{*}Laboratoire d’Informatique de Grenoble, Institut National Polytechnique de Grenoble, France, ^{**}Faculty of Electronics, Telecommunications and Information Technology, University “Politehnica” of Bucharest, Romania.
2. “Flexible Speech and Pen Interaction on Handheld Devices”, *Sorin Dusan, Sriram Ramachandran*, Center for Advanced Information Processing, Rutgers University, U.S.A.
3. “How to Enhance Genericity in Natural Language Command Interpretation Using Introspection and Ontologies”, *Laurent MAZUEL, Nicolas SABOURET*, LIP6 – Laboratoire Informatique de Paris 6, France.
4. “Text-to-Speech Engines as Telecom Service Enablers”, *Mihai Surmei*^{*}, *Dragoş Burileanu*^{**}, *Cristian Negrescu*^{**}, *Răzvan Pîrvu*^{*}, *Cătălin Ungurean*^{**}, *Aurelian Derviş*^{**}, ^{*}ERICSSON Telecommunications Romania S.R.L., ^{**}Faculty of Electronics, Telecommunications and Information Technology, University “Politehnica” of Bucharest, Romania.
5. “Aspects Regarding Synthetic Speech Quality Evaluations for Military Systems”, *Mihai Radu, Stefan-Adrian Toma, Florin Popescu*, Communication Department, Military Technical Academy, Bucharest, Romania.
6. “Original Method for Romanian Text-To-Speech Synthesis Based on Syllable Concatenation”, *Ovidiu Buza*^{*}, *Gavril Todorean*^{*}, *Alina Nica*^{*}, *Zsolt Bodo*^{**}, ^{*}Department of Telecommunications, Technical University of Cluj-Napoca, Romania, ^{**}Siemens PSE Program and System Engineering Ltd., Budapest, Hungary.

May 11
Romanian Academy – Iași Branch, Auditorium

9:30 – 11:00

Speech Analysis, Representations and Models

Chairs: **Laurent Besacier, Dan Cristea**

1. “Human Factors and Speech Technology: Reflections on 20 Years of User Interface Design for Speech-Enabled Applications”, **Daryle Gardner-Bonneau**, Bonneau and Associates, Speech Pathology and Audiology, Western Michigan University, U.S.A.
2. “Sound Classification in a Smart Room Environment: an Approach Using GMM and HMM Methods”, **Michel Vacher, Jean-François Serignat, Stéphane Chaillol**, Laboratoire d’Informatique de Grenoble, Team GETALP, UMR CNRS – Institut National Polytechnique de Grenoble – Université Joseph Fourier, Grenoble, France.
3. “An Improved Hybrid Time-Frequency Algorithm for Time-Scale Modification of Speech/Audio Signals”, **Cristian Negrescu, Amelia Ciobanu, Dragoș Burileanu, Dumitru Stanomir**, Faculty of Electronics, Communication and Information Technology, University “Politehnica” of Bucharest, Romania.

11:00 – 11:30 Break

Poster session

11:30 – 13:00

Speech Analysis, Representations and Models (continued)

4. “Genetic Optimization of Wavelet Packet Compression for Speech Signal”, **Leonardo Cernăianu, Eugeniu Oancea, Alexandru Șerbanescu**, Military Technical Academy, Bucharest, Romania.
5. “Studies on the Prosody of the Romanian Language: The Emotional Prosody and the Prosody of Double-Subject Sentences”, **Horia-Nicolai Teodorescu^{***}, Monica Feraru^{**}, Diana Trandabăț^{*}**, ^{*}Institute for Computer Science, Romanian Academy, Iasi, Romania, ^{**}Technical University of Iași, Romania.
6. “Module for Generating the F0 Contour Using as Input a Text Structured by Prosodic Information”, **Vasile Apopei, Doina Jitcă**, Institute for Computer Science, Romanian Academy – Iași Branch, Romania.

15:00 – 18:00

Natural Language Processing

Chairs: **Daryle Gardner-Bonneau, Dan Tufiş,**

1. “Parallel Corpora, Alignment Technologies and Further Prospects in Multilingual Resources and Technology Infrastructure”, **Dan Tufiş, Radu Ion**, Research Institute for Artificial Intelligence, Romanian Academy, Bucharest, Romania.
2. “The Digital Form of the Thesaurus Dictionary of the Romanian Language”, **Dan Cristea^{1,2}, Marius Răschip¹, Corina Forăscu^{1,3}, Gabriela Haja⁴, Cristina Florescu⁴, Bogdan Aldea^{1,4}, Elena Dănilă⁴**, ¹Faculty of Computer Science, Al. I. Cuza University of Iaşi, Romania, ²Institute for Computer Science, Romanian Academy, Iaşi, Romania, ³Institute for Artificial Intelligence, Romanian Academy, Bucharest, Romania, ⁴Institute of Romanian Philology “A. Philippide”, Iaşi branch of Romanian Academy, Romania.
3. “Orthography and Punctuation Marks in Printed Romanian Modelling: a Study Based on the Letter Statistical Structure in a Literary Corpus”, **Adriana Vlad^{*,**}, Adrian Mitrea^{*}, Mihai Mitrea^{*}**, ^{*}Faculty of Electronics, Communication and Information Technology, University “Politehnica” of Bucharest, Romania, ^{**}Research Institute for Artificial Intelligence, Romanian Academy, Bucharest, Romania.
4. “Syntax – Prosody Interface for Romanian within Information Structure Theories”, **Neculai Curteanu, Diana Trandabăţ, Mihai Alex Moruz**, Institute of Computer Science, Romanian Academy – Iaşi Branch, Romania.
5. “Complex Natural Language Processing System Architecture”, **Ştefan Diaconescu, Ionuţ Dumitraşcu**, SOFTWIN, Bucharest Romania.

Concluding remarks, **Horia-Nicolai Teodorescu**, c.m. of the Romanian Academy, Technical University of Iaşi, **Corneliu Burileanu**, University “Politehnica” of Bucharest, Faculty of Electronics, Telecommunications and Information Technology.