

# “SpeD 2009” PROGRAM

June 18, 2009

Constanța Maritime University

Conference Room

## 9:30 – 10:15

Welcome from the Organizing Committee and Foreword, *Corneliu BURILEANU*, University “Politehnica” of Bucharest, *Horia-Nicolai TEODORESCU*, c.m. of the Romanian Academy, Technical University of Iași.

Welcome addresses from *Cornel PANAIT*, Rector of Constanța Maritime University.

## 10:15 – 10:30 Break

## 10:30 – 12:30

### Speech Recognition and Understanding. Human-Computer Dialogue

Chairs: **Jean-Paul HATON**, **Corneliu BURILEANU**

- Speech Analysis for Automatic Speech Recognition: a Review,  
*Jean-Paul HATON*, LORIA/INRIA, Institut Universitaire de France.
- ProtoLOGOS, System for Romanian Language Automatic Speech Recognition and Understanding (ASRU),  
*Diana MILITARU*, *Inge GAVĂȚ*, *Octavian DUMITRU*, *Tiberiu ZAHARIA*, *Svetlana SEGARCEANU*, University “Politehnica” of Bucharest, Faculty of Electronics, Telecommunications and Information Technology.
- Comparing Various Voice Recognition Techniques,  
*Tudor BARBU*, Institute of Computer Science, Romanian Academy, Iași branch.
- Optimizing a Discourse Structuring Component for Utterance Generation in Human-Computer Dialogue,  
*Vladimir POPESCU*<sup>\*</sup> <sup>\*\*\*</sup>, *Jean CAELEN*<sup>\*\*</sup>, *Corneliu BURILEANU*<sup>\*\*\*</sup>, <sup>\*</sup>Laboratoire Informatique d'Avignon, University of Avignon, France, <sup>\*\*</sup>Laboratoire d'Informatique de Grenoble, Grenoble Institute of Technology, France, <sup>\*\*\*</sup>Faculty of Electronics, Telecommunications and Information Technology, University “Politehnica” of Bucharest, Romania.

**15:00 – 18:00**

**Text-to-Speech Synthesis. Real-Time Speech-Enabled Communication Applications**

**Chairs: Horia-Nicolai TEODORESCU, Dragoş BURILEANU**

- Assessing the Quality of Voice Synthesizers,  
*Horia-Nicolai TEODORESCU<sup>\*,\*\*</sup>, Monica FERARU<sup>\*\*</sup>, Marius ZBANCIOC<sup>\*,\*\*</sup>,  
<sup>\*</sup>Gheorghe Asachi Technical University of Iaşi, Romania, <sup>\*\*</sup>Institute for Computer Science,  
Romanian Academy, Iaşi, Romania.*
- Time-Frequency Processing of Partial for High-Quality Speech Synthesis,  
*Amelia CIOBANU<sup>\*</sup>, Cristian NEGRESCU<sup>\*</sup>, Dragoş BURILEANU<sup>\*,\*\*</sup>, Dumitru  
STANOMIR<sup>\*</sup>, <sup>\*</sup>University „Politehnica” of Bucharest, Faculty of Electronics,  
Telecommunications and Information Technology, <sup>\*\*</sup>Romanian Academy Center for  
Artificial Intelligence, Bucharest, Romania.*
- A Prosodic Control Module for a Romanian TtS System, Based on Melodic Contour Dictionaries,  
*Doina JITCA, Vasile APOPEI, Institute of Computer Science, Romanian Academy, Iaşi,  
Romania.*
- Automatic Rule-Based Syllabication for Romanian,  
*Ştefan-Adrian TOMA, Eugeniu OANCEA, Doru-Petru MUNTEANU, Military Technical  
Academy, Communication Department, Bucharest, Romania.*
- Real-Time Architectures for a Network-Based Text-to-Speech Service Implementation,  
*Mihai SURMEI<sup>\*</sup>, Dragoş BURILEANU<sup>\*,\*\*</sup>, Cristian NEGRESCU<sup>\*\*</sup>, Cătălin  
UNGUREAN<sup>\*\*</sup>, Aurelian DERVIŞ<sup>\*\*</sup>, <sup>\*</sup>ERICSSON Telecommunications Romania S.R.L.,  
<sup>\*\*</sup>University „Politehnica” of Bucharest, Faculty of Electronics, Telecommunications and  
Information Technology, <sup>\*\*\*</sup>Romanian Academy Center for Artificial Intelligence,  
Bucharest, Romania.*
- Experiments with the Prediction and Generation of Romanian Intonation,  
*Arpad Zsolt BODO<sup>\*,\*\*</sup>, Ovidiu BUZA<sup>\*</sup>, Gavril TODEREAN<sup>\*</sup>, <sup>\*</sup>Technical University of  
Cluj-Napoca, Faculty of Electronics, Telecommunications and Information Technology,  
<sup>\*\*</sup>Sprint Consulting Ltd., Cluj-Napoca, Romania.*

**June 19, 2009**  
**Constanța Maritime University**  
**Conference Room**

**9:30 – 11:00**

**Natural Language Processing**

Chairs: **Dan TUFİȘ, Gavril TODEREAN**

- Factored Phrase-Based Statistical Machine Translation,  
*Dan TUFİȘ, Alexandru CEAUȘU, Research Institute for Artificial Intelligence, Romanian Academy, Bucharest, Romania.*
- Dynamic Relationship Management for Personality Rich Character Presentations in Interactive Games,  
*Manish MEHTA\**, *Kinshuk MISHRA\**, *Andrea CORRADINI\*\**, *\*Georgia Institute of Technology, College of Computing, Atlanta, GA, USA,* *\*\*University of Southern Denmark, Institute of Business Communication and Information Science, Kolding, Denmark.*
- Discourse Theories vs. Topic-Focus Articulation Applied to Prosodic Focus Assignment in Romanian,  
*Neculai CURTEANU\**, *Diana TRANDABĂȚ\*\*\**, *Mihai Alex MORUZ\*\*\**, *\*Institute of Computer Science, Romanian Academy, Iași,* *\*\*Faculty of Computer Science, University “Al. I. Cuza” Iași, Romania.*

**11:00 – 11:30 Break**

**Poster session**

**11:30 – 12:30**

**Natural Language Processing (continued)**

- General System for Normal and Phonetic Inflection,  
*Ștefan DIACONESCU, Cristi INGINERU, Felicia CODÎRLAȘU, Monica RIZEA, Oana BULIBAȘA, Softwin, Bucharest, Romania.*
- Text Conditioning and Statistical Language Modeling for Romanian Language,  
*József DOMOKOS\*\*\**, *Gavril TODEREAN\*\**, *Ovidiu BUZA\*\**, *\*Sapientia University, Faculty of Technical and Human Sciences, Electrical Engineering Department,* *\*\*Technical University of Cluj-Napoca, Faculty of Electronics, Telecommunications and Information Technology, Cluj-Napoca, Romania.*

**15:00 – 17:00**

**Speech and Audio-Signal Processing. Speech Interface Applications**

Chairs: **Inge GAVĂT, Cristian NEGRESCU**

- Speech Recognition in a Smart Home: Some Experiments for Telemonitoring,  
*Michel VACHER\**, *Anthony FLEURY\*\**, *Noé GUIRAND\**, *Jean-François SERIGNAT\**,  
*Norbert NOURY\*\**, *LIG Laboratory*, *GETALP Team UMR CNRS-UJF-INPG-UPMF*,  
*Grenoble, France*, *\*\*TIMC-IMAG Laboratory, AFIRM Team, La Tronche, France.*
- Practical Variable Step-Size Adaptive Algorithms for Echo Cancellation,  
*Constantin PALEOLOGU\**, *Jacob BENESTY\*\**, *Silviu CIOCHINĂ\**, *Călin VLĂDEANU\**,  
*\*University „Politehnica” of Bucharest, Faculty of Electronics, Telecommunications and*  
*Information Technology, Romania*, *\*\*INRS-EMT, Universite du Quebec, Montreal, Canada.*
- Wavelet Analysis for Audio Signals with Music Classification Applications,  
*Anca POPESCU*, *Inge GAVĂT*, *Mihai DATCU*, *University „Politehnica” of Bucharest,*  
*Faculty of Electronics, Telecommunications and Information Technology, Romania.*
- Linear Interpolation of Spectrotemporal Excitation Pattern Representations for Automatic Speech  
Recognition in the Presence of Noise,  
*Adriana STAN*, *Telecommunications Engineering, Technical University of Cluj-Napoca,*  
*Romania.*

Concluding remarks, *Corneliu BURILEANU*, University “Politehnica” of Bucharest.

## POSTER SESSION

### Conference Room and Hall of Constanța Maritime University

Organizers: **Constantin PALEOLOGU**, **Călin VLĂDEANU**

- A Web Tool for Testing the Recognition of Emotional States and Tones in Speech,  
*Laura PISTOL\**, *Horia-Nicolai TEODORESCU\*\**, *\*Institute of Computer Science of the Romanian Academy, Iași Branch*, *\*\*“Gheorghe Asachi” Technical University of Iași*
- Speech and Speech-like Psycho-physiological Signals Processing for Health and Well-being Enhancement Applications,  
*Marius COTESCU*, *Inge GAVĂȚ*, *Ovidiu GRIGORE*, *Tiberius ZAHARIA*, *Svetlana SEGĂRCEANU*, *University „Politehnica” of Bucharest, Faculty of Electronics, Telecommunications and Information Technology, Romania.*
- Building a Text to Speech System for Romanian through Concatenation,  
*Ovidiu BUZA\**, *Gavril TODEREAN\**, *Joszeff DOMOKOS\*\**, *Arpad Zsolt BODO\*\*\**, *\*Technical University of Cluj-Napoca*, *\*\*Sapientia University of Târgu-Mureș*, *\*\*\*Sprint Consulting Ltd.*
- TtS Framework Building Results,  
*Arpad Zsolt BODO\*\*\**, *Gavril TODEREAN\*\**, *Ovidiu BUZA\**, *\*Sprint Consulting Ltd.*, *\*\*Technical University of Cluj-Napoca, Faculty of Electronics, Telecommunications and Information Technology.*
- Spontaneous Romanian Speech Observations and Statistics for Recognition Purposes,  
*Cristina Sorina PETREA\**, *Diana Mirela HANEȘ\**, *Andi BUZO\**, *Vladimir POPESCU\*\**, *Corneliu BURILEANU\**, *\*University „Politehnica” of Bucharest, Faculty of Electronics, Telecommunications and Information Technology*, *\*\*Laboratoire Informatique d'Avignon, University of Avignon, France.*