## Wednesday, November 22nd
### Radio Novi Sad (Studio M)

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| **18:00** | TAKTONS Opening Ceremony |
| **18:30** | Welcome Party |
| **19:30** | Serbian AES Section: 25th Anniversary |

## Thursday, November 23rd
### University of Novi Sad (Rectorate)

**09:30** Registration of Participants (UNS, Hall)

**10:00-10:30** **DOGS Conference Opening**
(UNS, Conference Room I-9)
Chair: Prof. Vlado Delić

**Prof. Saša Orlović** - Vice-Rector of the University of Novi Sad

**Prof. Dragan Šešlija** – Vice-Dean of the Faculty of Technical Sciences

**10:30-13:00** **Speech Technologies** **DOGS**
(UNS, Conference Room I-9) *in English*
Chairs: Prof. Géza Németh and Prof. Milan Sečujski

**Continuous vocoder in feed-forward deep neural network based speech synthesis** – M. Al-Radhi, T. Gábor Csapó, G. Németh: *Budapest University of Technology and Economics, Department of Telecommunications and Media Informatics, Budapest, Hungary*

**Reproduction of emphasis at sentence level in American English speech synthesis** – M. Sečujski[1], S. Ostrogonac[2], S. Suzić[1], D. Pekar[2]: [1]*UNS, FTN, Serbia;* [2]*AlfaNum, Novi Sad, Serbia*

**Multi-style statistical parametric TTS** – T. Delić[1], S. Suzić[1], S. Ostrogonac[2], S. Đurić[1], D. Pekar[2]: [1]*UNS, FTN, Serbia;* [2]*AlfaNum, Novi Sad, Serbia*

**Coordinations - from meaning to sound** – N. Milićević, B. Jakovljević, M. Marković: *UNS, Faculty of Philosophy, Serbia*

**Acoustic and syntactic correlates of prosodic stress in Serbian: a production study** – P. Kovačević: *UNS, Faculty of Philosphy, Serbia*

**Prosodic phrasing of da-clauses in Serbian** – T. Milićev, B. Jakovljević: *UNS, Faculty of Philosophy, Serbia*

**Interactive search for words and phrases in large audio-visual archives** – J. Švec, P. Stanislav, P. Ircing, L. Šmídl, J. Psutka: *University of West Bohemia, Department of Cybernetics, Pilsen, Czech Republic*

**Fast sequence-trained deep neural network models for Serbian speech recognition** – E. Pakoci[1], B. Popović[1], D. Pekar[2]: [1]*UNS, FTN, Serbia;* [2]*AlfaNum, Novi Sad, Serbia*

**Speaker dependent recognition of whispered speech based on MLLR adaptation** – J. Galić[1], S. Jovičić[2], B. Marković[3], D. Šumarac Pavlović[2], Đ. Grozdić[2]: [1]*Uni. Banja Luka, Fac. Elec. Eng., Bosnia and Herzegovina;* [2]*Uni. Belgrade, School Elec. Eng., Serbia;* [3]*Čačak Tech. College, Serbia*

**A text input mechanism based on voice recognition for android smartphones** – N. Jakovljević, R. Černjanski, D. Mišković, V. Delić: *FTN, Serbia*

**13:00-15:00** **Lunch**

**15:00-16:45** **Digital Image Processing** **DOGS**
(UNS, Conference Room I-9) *in English*
Chairs: Prof. Miloš Železný and Branko Brkljač, PhD

**Use of motion capture and eye tracking in scientific tasks** – M.Železný, P. Jedlička, Z. Krňoul: *University of West Bohemia, Department of Cybernetics, Pilsen, Czech Republic*

**The role of image compression in photogrammetry based scanning systems** – D. Dragan, D. Gajić, V. Petrović: *UNS, FTN, Serbia*

**Efficient computation of spectral transforms on graphics processing units** – D. Gajić, D. Dragan, V. Petrović: *UNS, FTN, Serbia*

**Objective video quality assessment metrics performance analysis** – B. Bondžulić[1], B. Pavlović[1], V. Petrović[2]: [1]*University of Defense, Military Academy, Belgrade, Serbia;* [2]*UNS, FTN, Serbia*

**Analysis of spatial and temporal variability of the solar radiation incidence angle on the example of landsat-8 satellite images** – B. Brkljač[1], P. Lugonja[2], Ž. Trpovski[1], V. Crnojević[2]: [1]*UNS, FTN, Serbia,* [2]*UNS, Institute BioSense, Serbia*

**Ear detection in wheat images using deep neural networks** – Ž. Šarić[1], O. Marko[2], M. Panić[2]: [1]*UNS, FTN;* [2]*Institute BioSense, Serbia*

**An analytical approach to authentication of Church of Holy Trinity altar in Buda** – I. Lazić[1], T. Lončar-Turukalo[1], D. Korolija Crkvenjakov[2], O. Šveljo[1]: [1]*UNS, FTN;* [2]*UNS, Academy of Arts, Serbia*

**17:00-19:00** **Audio Signal Processing** **DOGS**
(UNS, Conference Room I-9) *in Serbian*
Chairs: Prof. Zoran Perić and Prof. Nikša Jakovljević

**Optimizacija maksimalne amplitude i izbor konstante A semilogaritamskog kvantizera za uzak dinamički opseg** – Z. Perić[1], S. Suzić[2], T. Delić[2]: [1]*Univ. Niš, Elektronski fakultet;* [2]*UNS, FTN, Srbija*

**Kodovanje govornog signala primenom modifikovanog BTC algoritma** – S. Tomić, Z. Perić, J. Nikolić: *Univ. Niš, Elektronski fakultet, Srbija*

**Proširenje postupka za automatsko prepoznavanje govornika na ostale zvukove u prirodi** – I. Jokić[1], S. Jokić[2], V. Delić[1], Z. Perić[3]: [1]*UNS, FTN;* [2]*EKG za svakoga;* [3] *Uni. Niš, Elektronski fakultet, Srbija*

**Realizacija audio biblioteke Univerziteta u Novom Sadu** – D. Mišković, M. Gnjatović, N. Jakovljević, V. Delić: *UNS, FTN, Srbija*

**Primena ASR aplikacije za srpski jezik u radu sa mlađim osnovcima** – Branko Lučić: *Srednja stručna škola, Crvenka, Srbija*

**Pseudo-verovatnoća i intervalno-vrednosna pseudo-verovatnoća** – T. Grbić, S. Medić, N. Duraković, T. Gavrilov, T. Delić, N. Jakovljević: *UNS, FTN, Srbija*

**Komparacija kompresionih tehnika kod prikaza stereoskopskih slika** – I. Vasiljević, D. Dragan, R. Obradović: *UNS, FTN, Srbija*

**Uticaj dinamike na sprektralne karakteristike violine** – S. Krstić, M. Milošević, N. Janković: VŠERSS, *Beograd, Srbija*

| 20:00-22:30 | **Conference Dinner (Restaurant Terasa, Petrovaradin fortress)** |
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## Friday, November 24th
### University of Novi Sad (Rectorate)

| 09:00-11:00 | **Biomedical Signal Processing** DOGS **(UNS, Conference Room I-9)** *in English* |
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| | Chairs: Prof. Tatjana Lončar-Turukalo & Miško Subotić, PhD |

**The use of sound in medical diagnostics** – M. Subotić[1], R. Bilibajkić[1], P. Subotić[2]: [1]*Life Activities Advancement Center, Belgrade, Serbia;* [2]*University of Belgrade, School of Electrical Engineering, Serbia*

**New Hungarian database for analysis of speech of people suffering from Parkinson's disease** – D. Sztahó[1], I. Valálik[2], K. Vicsi[1]: [1]*Budapest University of Technology and Economics, DTMI, Budapest, Hungary;* [2]*Depart. of Neurosurgery at St. John's Hospital, Budapest, Hungary*

**Error estimation of cross-approximate entropy in an artificial environment** – T. Škorić, D. Bajić: *UNS, FTN, Serbia*

**Homomorphic equalisation of statistical properties for radiography image merging** – Đ. Starčević, V. Ostojić, V. Petrović: *UNS, FTN, Serbia*

**Automatic evaluation of collimation field rotational angle** – Đ. Starčević, V. Ostojić, V. Petrović: *UNS, FTN, Serbia*

**Recursive anisotropic diffusion** – V. Ostojić, Đ. Starčević, V. Petrović: *UNS, FTN, Serbia*

**Integrative clustering for cancer gene expression data** – I. Šašić[1], S. Brdar[2], T. Lončar-Turukalo[1], H. Aidos[3], A. Fred[3]: [1]*UNS, FTN, Serbia;* [2]*UNS, Inst. BioSense, Serbia;* [3]*Inst. Superior Technico, Lisabon, Portugal*

**Pattern mining in surrogate neural data** – D. Despotović, N. Božanić, T. Lončar-Turukalo: *UNS, FTN, Serbia*

| 11:00-13:00 | **TAKTONS Conference Opening and Panel: Construction of the new RTV building (UNS, Amphitheater)** *in Serbian* |
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| | Moderators: Prof. Miomir Mijić and Jovan Bačić (RTV) |

**Miodrag Koprivica, PhD** – General manager of RTV Vojvodina

**Prof. Dušan Nikolić** – Rector of the University of Novi Sad

**Prof. Rade Doroslovački** – Dean of the Faculty of Technical Sciences

**Dejan Todorović** – President of the Serbian AES Section

**Akustički aspekti projekta nove zgrade RTV** – M. Mijić[1], D. Šumarac Pavlović[1], M. Bjelić[1], R. Bošković[2]: [1]*UBG, ETF;* [2]*UNS, FTN, Serbia*

| 13:00-14:30 | **Lunch** |
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| 14:30-16:45 | **Acoustics and Audio Engineering (UNS, Conference Room I-9)** |
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| | Chairs: Prof. Dejan Ćirić and Dejan Todorović (AES) |

**Digitalization of audio equipment in Radio Novi Sad - Experiences** – D. Grnja, R. Uzelac, E. Šereš: *RTV Radio Novi Sad, Serbia*

**Measurement of direct sound coverage in sound reinforcement systems** – M. Bjelić, D. Š. Pavlović, M. Mijić: *Uni. of Belgrade, ETF, Serbia*

**Effects of changing the truncation time on room energy decay curve** – D. Ćirić, M. Janković: *Uni. of Niš, Fac. Elec. Eng., Serbia*

**Analysis of the violin sound radiation in the studio's conditions** – S. Krstić, D. Drinčić, M. Trifunović: *VSERSS, Belgrade, Serbia*

**Narrow band reverberation time measurements** – L.Čurović, J. Prezelj, J. Murovec, T. Novaković: *Uni. of Ljubljana, Fac. Mech. Eng., Slovenia*

**One dimensional beamforming microphone array geometry optimization for environmental noise monitoring** – J. Murovec, J. Prezelj, L. Čurović, T. Novaković: *Uni. of Ljubljana, Fac. Mech. Eng., Slovenia*

**Psychoacoustic approach on centrifugal fan blade design** – T. Novaković, J. Prezelj, L. Čurović, J. Murovec: *Fac. Mech. Eng., Slovenia*

**Air impedance and Thiele-Small parameters in an electrodynamic loudspeaker** – I. Djurek, D. Djurek, T. Jajtić: *Uni. of Zagreb, FER, Croatia*

**Digital holography of graphene oxide paper acoustic membranes** – J. Mitrić[1], D. Grujić[2], D. Abramović[3], N. Demoli[3], D. Pantelić[2], I. Salom[4], D. Todorović[5], M. Spasenović[2]: [1]*Uni. Union;* [2]*UBG, Inst. Physics;* [3]*UZG, Inst. Physics, Croatia;* [4]*UBG, Inst. M. Pupin;* [5]*Dirigent Acoustics, Serbia*

**MATLAB simulation of an acoustic camera using delay-and-sum method** – V. Ćatić[1], I. Salom[1], V. Čelebić[1], D. Todorović[2]: [1]*Uni. Belgrade, Inst. M. Pupin;* [2]*Dirigent Acoustics, Belgrade, Serbia*

**Application of algorithm for automatic speaker recognition based on use of mel-frequency cepstral coefficients in music** – I. Jokić[1], S.Jokić[2], V. Delić[1], Z. Perić[3]: [1]*UNS, FTN, Serbia;* [2]*ECG for Everybody, Serbia;* [3]*University of Niš, Faculty of Electronic Engineering, Serbia*

| 17:00-19:30 | **Students Sound Recordings Competition (UNS, Conference Room I-9)** *in Serbian* |
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| | Chair: Prof. Sonja Krstić |

**Kategorije:** Studijsko snimanje, Elektronska muzika, Zvuk za medije

**Žiri:** Lj. Gordić (RTS), Z. Maljković (RTS), I. Brusić (SC), N. Jeremić (SIM)
– biće preslušan i pobednički rad sa državnog takmičenja srednjih škola
– pobednički studentski rad će preslušati i veliki žiri zvaničnog TAKTONS-a

| 20:00 | **Gala Concert (Studio M, Radio Novi Sad)** |
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## Saturday, November 25th
### Radio Novi Sad (Studio M)

| 12:00-13:00 | **Announcement of TAKTONS winners** |
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| 13:00-13:30 | **Cocktail party for winners** |

## Other TAKTONS events
### November 22nd - 25th

**Other TAKTONS events at Radio Novi Sad (Studio M):**

- **Professional Sound Recordings Competition**
- **Audio Engineering Exhibition**
- **AES Bookstore**
can be visited during the conference, Nov., 22nd – 25th.

**Lectures and project presentations at Radio Novi Sad, Thursday, 23th, Studio M:**

- **10:25-11:10  Projects related to the construction of new RTV building, Jovan Bačić & prof. Miomir Mijić**
- **14:45-15:30  Invited lecture: Landmarks along the long road from stereo to 3D – Michael Williams (AES)**

**Other TAKTONS events at University of Novi Sad:**

- **Exhibition of Audio-Equipment from RTS on the occasion of the 25th Anniversary of Serbian AES Section, November, 22nd – 25th, 10:00-18:00.**
Organizers: Prof. Vlado Delić and Mirjana Mihajlović (RTS)

The programme is available at http://www.taktons.com.