



CONFERENCE PROGRAMME  
**TAKTONS 2019**

The 5<sup>th</sup> International Acoustics and Audio Engineering Conference,  
as part of  
International competition of audio recordings - TAKTONS 2019

November 6<sup>th</sup> - 9<sup>th</sup>, 2019

Novi Sad, Serbia

**Wednesday, November 6<sup>th</sup>**  
**Radio Novi Sad (Studio M)**

**18:00** TAKTONS Opening Ceremony  
Concert Acoustic Sculptures Labat SVAR  
– OMFAL SVETLOST SREDIŠTA  
**18:50** Welcome reception

**Thursday, November 7<sup>th</sup>**  
**Radio Novi Sad**

**10:00-11:30** Acoustics and Audio Engineering  
(Radio-studio PS-1 DEMO ROOM)  
Chairs: Dejan Todorović and Iva Salom

**A Device for In-Situ Measurement of Sound Insulation Index and Reflection Index of Traffic Noise Barriers** – I. Salom<sup>1</sup>, D. Todorović<sup>2</sup>, B. Planić<sup>1</sup>: <sup>1</sup>Uni. of Belgrade, Inst. M. Pupin, Serbia, <sup>2</sup>Dirigent Acoustics, Belgrade, Serbia

**Statistical approach to beamforming of environmental noise** – J. Prezelj, L. Čurovič, T. Novaković: Uni. of Ljubljana, Fac. Mech. Eng., Slovenia

**Autonomous unsupervised classification of environmental noise sources based on spatial filtering and ANN** – J. Murovec, L. Čurovič, T. Novaković, J. Prezelj: Uni. of Ljubljana, Fac. Mech. Eng., Slovenia

**Sound quality optimization of radial impeller based on subjective and objective evaluation** – T. Novaković, J. Murovec, L. Čurovič, J. Prezelj: Uni. of Ljubljana, Fac. Mech. Eng., Slovenia

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

**15:00-16:45** Audio Signal Processing  
(UNS, Faculty of Technical Sciences, F319)  
Chairs: Zoran Perić and Milan Sečujski

**Improvement of the Quality of Neural Network Based Speech Synthesis through Intra-Speaker Clustering** – M. Sečujski<sup>1</sup>, T. Nosek<sup>1</sup>, S. Suzić<sup>1</sup>, D. Pekar<sup>2</sup>: <sup>1</sup>UNS-FTN, Serbia, <sup>2</sup>AlfaNum, Novi Sad, Serbia

**Focus of Attention Determination in Automatic Speech Recognition** – B. Popović<sup>1</sup>, E. Pakoci<sup>1</sup>, D. Pekar<sup>2</sup>, M. Janev<sup>3</sup>, L. Krstanović<sup>1</sup>, M. Sečujski<sup>1</sup>: UNS-FTN, Serbia, <sup>2</sup>AlfaNum, N. Sad, Serbia, <sup>3</sup>MI SANU, Belgrade, Serbia

**Can stress in broiler chickens be detected from their chatter?** – N. Maljković, N. Jakovljević, D. Mišković, V. Delić: UNS-FTN, Serbia

**Improvements of accuracy of automatic speaker recognizer based on MFCCs** – I. Jokić<sup>1</sup>, S. Jokić<sup>1</sup>, V. Delić<sup>1</sup>, Z. Perić<sup>2</sup>: <sup>1</sup>UNS-FTN, Serbia, <sup>2</sup>Uni. of Niš, Electronics Faculty, Serbia

**Semilogarithmic Companding Quantization for Laplacian Amplitudes with Wide Amplitude Dynamic** – A. Jovanović, Z. Perić, J. Nikolić: Uni. of Niš, Electronics Faculty, Serbia

**BTC Algorithm with Variance Modelling Based Approach** – N. Simić<sup>1</sup>, Z. Perić<sup>2</sup>, J. Nikolić<sup>2</sup>: <sup>1</sup>UNS-FTN, Serbia, <sup>2</sup>Uni. of Niš, Elect. Faculty, Serbia

**17:00-18:00** Video Signal Processing  
(UNS, Faculty of Technical Sciences, F319)  
Chairs: Tatjana Lončar-T. and Branko Brkljač

**A perspective on semantic analysis of urban environments based on image and audio processing** – B. Brkljač<sup>1</sup>, B. Antić<sup>1</sup>, D. Mišković<sup>1</sup>, M. Janev<sup>2</sup>: <sup>1</sup>UNS-FTN, Serbia, <sup>2</sup>MI SANU, Belgrade, Serbia

**Traditional and Deep Learning Approaches in Classification of Histopathological Images** – A. Antić, I. Lazić, T. Lončar-Turukalo: UNS-FTN, Serbia

**A Robust Text Detection Method in Low-Quality Images Using Fuzzy Gabor Filter** – V. Tadić<sup>1</sup>, Z. Kiraly<sup>1</sup>, P. Odry<sup>1</sup>, Ž. Trpovski<sup>2</sup>, T. Lončar-Turukalo<sup>2</sup>: <sup>1</sup>University of Dunaujvaros, Hungary, <sup>2</sup>UNS, FTN, Srbija

**20:00-22:00** Conference Dinner

**Other TAKTONS events at Radio Novi Sad, Nov. 6<sup>th</sup> – 9<sup>th</sup>:**

- **Professional Sound Recordings Competition**  
(some of them has public performance with audience)
- **Audio Engineering Exhibition**  
(can be visited from 10:00-18:00)

**Lectures on Wednesday (Studio M):**

- **14:15 Coexisting tasks in large scale preservation projects** – Silvester Stöger (NOA)

**Lectures on Thursday (Studio M):**

- **11:35 Rethinking audio editing-tools for radio journalists** – Nick Dunkerley
- **12:45 JT-NM SMPTE ST 2100 Audio** – Jean-Paul Moerman

**Lectures on Friday (Studio M):**

- **12:00 SHURE broadcast solutions** – Igor Gaydarov
- **15:00 Monitoring Modern Immersive Audio Formats** – Aki Mäkitvirta

The complete TAKTONS 2019 programme is available at  
<http://www.taktons.com>.