

## **iCONIC Spring Workshop – Program (24<sup>th</sup> and 25<sup>th</sup> April 2018.)**

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### **Tuesday 24<sup>th</sup> April**

#### **Session 1 (14:00h – 15:20h): Cellular Networks, IoT, 4G/5G Technologies, LP-WAN**

14:00 – 14:20: Cedimir Stefanovic: 5G Use Cases for Vertical Industries

14:20 – 14:40: Ivan Mezei: Saradnja iCONIC centra i VIP kompanije u domenu NB-IoT komunikacija

14:40 – 15:00: Milan Lukic: LoRaWAN - an emerging technology for massive scale low-power wide-area sensor networks

15:00 – 15:20: Zivorad Mihajlovic: The Perspective of Energy Harvesting for Low-Power Wide-Area Network (LPWAN)

#### **Session 2 (15:40h – 17:00h): Machine Learning, Belief Networks, Deep Neural Networks**

15:40 – 16:00: Dubravko Culibrk: Deep Neural Networks in the Fog

16:00 – 16:20: Milos Radosavljevic: Deep Neural Networks for the Face Verification Task

16:20 – 16:40: Niksa Jakovljevic: Hidden Markov Model Based Respiratory Sound Classification

16:40 – 17:00: Mirsad Cosovic: Linear State Estimation via 5G C-RAN Cellular Networks using Gaussian Belief Propagation

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### **Wednesday 25<sup>th</sup> April**

#### **Session 1 (14:00h – 15:20h): Coding and Communications: Theory and Applications**

14:00 – 14:20: Aleksandar Minja: Overview of Analog Fountain Codes

14:20 – 14:40: Jelena Bjelica: Coded Random Access with Energy Harvesting Users

14:40 – 15:00: Milica Petkovic: Optical Wireless Communications

15:00 – 15:20: Dejan Vukobratovic: Visible Light Communications Based Indoor Positioning via Compressed Sensing

#### **Session 2 (15:40h – 17:00h): Intelligent Systems: Theory and Applications**

15:40 – 16:00: Dragana Bajovic: Optimal detection and error exponents for hidden semi-Markov models

16:00 – 16:20: Vladimir Ostojic: Recursive anisotropic diffusion denoising

16:20 – 16:40: Zeljen Trpovski: QR kod u elektronskim medijima

16:40 – 17:00: Zivko Bojovic: Intelligent Virtual Black Box

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