

## MONTENEGRIN ACADEMY OF SCIENCES AND ARTS

DEPARTMENT OF NATURAL SCIENCES
INFORMATION AND COMMUNICATION
TECHNOLOGIES BOARD

SCIENTIFIC MEETING

# SIGNAL PROCESSING — STATE-OF-THE-ART AND PERSPECTIVES

#### **PROGRAMME**

MONTENEGRIN ACADEMY OF SCIENCES AND ARTS
RISTA STIJOVIĆA 5, PODGORICA

Tuesday, June 11, 2024

#### **ORGANIZING COMMITTEE:**

#### ACADEMICIAN LJUBIŠA STANKOVIĆ,

Vice-President, Montenegrin Academy of Sciences and Arts

#### ACADEMICIAN IGOR DJUROVIĆ,

President of the Information and Communication Technologies Board, Montenegrin Academy of Sciences and Arts

#### Doc. dr Miloš Brajović,

Faculty of Electrical Engineering, University of Montenegro

### **PROGRAMME**

9.00-9.10	OPENING ADDRESS:
	ACADEMICIAN LJUBIŠA STANKOVIĆ Vice-President of the Montenegrin Academy of Sciences and Arts
9.10–10.20	Session I MULTI-SENSOR SYSTEMS
	chaired by <b>IGOR DJUROVIĆ</b>
9.10-9.40	MARIUS PESAVENTO Technical University of Darmstadt, Germany AN OPTIMIZATION PERSPECTIVE ON STATISTICAL SENSOR ARRAY PROCESSING
9.45-10.15	MILOS BRAJOVIĆ University of Montenegro GRAPH SIGNAL PROCESSING
10.20-10.35	COFFEE BREAK
10.35-11.45	Session II ESTIMATION
	chaired by <b>MiLoš Brajović</b>
10.35–11.05	FULVIO GINI University of Pisa, Italy MISSPECIFIED LOWER BOUNDS AND ITS APPLICATION TO INFERENCE PROBLEMS WITH COMPLEX ELLIPTICALLY SYMMETRIC (CES) DISTRIBUTED DATA
11.10-11.40	IGOR DJUROVIĆ University of Montenegro, Montenegrin Academy of Sciences and Arts RANSAC ALGORITHM APPLICATION IN PARAMETER ESTIMATION OF FREQUENCY MODULATED SIGNALS
11.45-12.00	Coffee Break

SESSION III 12.00-13.10 ARTIFICIAL INTELLIGENCE **APPLICATIONS** chaired by LJUBIŠA STANKOVIĆ ZORAN HADŽI-VELKOV 12.00-12.30 University Ciril and Methodius, Skopje, Macedonian Academy of Sciences and Arts FEDERATED LEARNING FOR COMMUNICATIONS ADAM WOJCIECHOWSKI 12.35-13.05 Lodz University of Technology, Poland INTELLIGENT USER INTERFACES **COFFEE BREAK** 13.10-13.25 SESSION IV 13.25-14.30 ARTIFICIAL INTELLIGENCE AND MULTIMEDIA chaired by ZORAN HADŽI VELKOV FILIP RADENOVIĆ 13.25-13.55 Meta AI, USA ENHANCING MULTIMODAL GENERATION MODELS 14.00-14.30 Kosta Pavlović University of Montenegro DNN-BASED SPEECH WATERMARKING

DISCUSSION