



**XXVII Международная конференция
«Цифровая обработка сигналов и ее
применение — DSPA-2025»**

**XXVII International Conference
«Digital Signal Processing and Its Applications
— DSPA-2025»**

**ПРОГРАММА КОНФЕРЕНЦИИ
CONFERENCE PROGRAMME**

AUTEX Ltd.



28 марта 2025 – March 28, 2025

Special Online Session

14:00 –17:00 (Moscow Time)

13:45-14:00 Установочное время (Preparation)

Секция **En. Англоязычные доклады** (онлайн *, 28 марта 14:00 – 17:00)

Section **En. Foreign language section** (on-line*, March 28, 14:00 – 17:00 MOSCOW TIME)

The chair: Professor Vikram Gadre

The co-chair: Assistant Professor Koushlendra Singh

The co-chair: Assistant Professor Sergey Vityazev

1	Custom Hardware Architecture for FPGA-based Gated Recurrent Unit <i>Mohammed Rizwan K.S, Nikhil Gowda S, Yashwanth S, Anuros Thomas K</i> <i>PES University Bengaluru, India</i>	Индия - India
2	Audio Inpainting Using Autoregressive Modeling of CWT Coefficients with Matched Wavelets <i>Chithra K R, Athira Remesh, Sinith M S</i> <i>Department of Electronics and Communication Government Engineering College, Thrissur APJ Abdul Kalam Technological University Thiruvananthapuram</i>	Индия - India
3	UTILIZING DIGITAL TECHNOLOGY FOR ACCURATE WATER FOOTPRINT CALCULATION IN AGRICULTURAL PRODUCTS <i>Kabilan Rajagopal, Harisha Ayyavoo, Aarthi Selvam, Dr.Mahalakshmi K</i> <i>K.S.Rangasamy College of Technology Tiruchengode, Tamil Nadu, India</i>	Индия - India
4	Attention-Augmented YOLO11 for High-Precision Aircraft Detection in Synthetic Aperture Radar Imagery <i>Murat Bakirci, Irem Bayraktar</i> <i>Tarsus University Mersin, Turkey</i>	Турция - Turkey
5	180° Differential Phase Shifting of 60 GHz Signals Using Liquid Crystal-filled Strip-Line Designs with Enhanced FoM Performance and Compact Footprint <i>Jinfeng Li, Yunchen Xiao</i> <i>Beijing Institute of Technology, Beijing, China</i>	Китай - China

6	<p>A NOVEL FRAME WORK FOR MALARIA DETECTION USING MACHINE LEARNING TECHNIQUES <i>Ponkam Roshitha, Ravuri Abhinaya, Pasala Bharatha Simha Reddy, Pasupuleti Reddy Kumar, Chekuri Nalini</i> Mohan Babu University School of Engineering, Mohan Babu University</p>	<p>Индия - India</p>
7	<p>GALE's Effectiveness in Managing Cognitive Workload <i>Ankit Tiwari</i> Embry Riddle Aeronautical University</p>	<p>США - United States</p>
8	<p>Advancements in Autonomous Drones for Enhanced Healthcare Logistics <i>A. Bhaargav Gupta P, B. Dr. S. Murali, C. Vignesh N, D. Nithish Kumar R, E. Rahul J, F. Nivetha Ruvah D</i> Sri Sai Ram Institute of Technology</p>	<p>Индия - India</p>
9	<p>Detection of Offline Handwritten Signature Forgery Using InceptionV4 with Sobel Edge Detection <i>Ericka F. Rudico, John Mar Y. Armocilla, Meo Vincent C. Caya</i> School of Electrical, Electronics, and Computer Engineering Mapúa University, Manila, Philippines</p>	<p>Филиппины - Philippines</p>
10	<p>Meta-Learner Blended Ensemble of Multi-Scale GRU-CNN for Remaining Useful Life Forecasting Himanshu <i>Kumar Pathak 1 , Unnati Chaurasia 1 , Koushendra Kumar Singh 1 , Sergey Vityazev 2</i> 1 Machine Vision & Intelligence Lab, National Institute of Technology, Jamshedpur, India 2 Ryazan State Radio Engineering University, Ryazan, Russia</p>	<p>Рязань Джамшедпур - Ryazan Jamshedpur</p>