



**“ANGEL KANCHEV” UNIVERSITY OF RUSE  
UNION OF SCIENTISTS – RUSE**

# **Reports Awarded with "Best Paper" Crystal Prize**

*63<sup>rd</sup> Annual Scientific Conference - University of Ruse and Union of Scientists*

**2024 – Ruse, Silistra, Razgrad**

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## ADDRESS OF THE PROGRAM COMMITTEE

Researchers from the University of Ruse and the Union of Scientists - Ruse are pleased to welcome you to the 63rd Annual International Scientific Conference, which is jointly organized by our two institutions. The plenary and the 22 sectional sessions were held respectively in Silistra on October 18, in Ruse on October 25 and 26, and in Razgrad on November 8 and 9, 2024.

The program included 332 reports on research results, which were presented during all days of the session and other parallel events of the forum.

Authors from Bulgaria, Denmark, Egypt, Iraq, Kazakhstan, Romania and Ukraine discussed their views in the following research areas that correspond to the theme of the conference:

*Agricultural Machinery and Technologies, Agrarian Sciences and Veterinary Medicine, Maintenance and Reliability, Industrial Design, Thermal, Hydro- and Pneumatic Equipment, Ecology and Conservation; Chemical technologies; Biotechnology and food technology; Mechanical engineering and Machine-building Technologies; Electrical engineering, electronics and automation; Communication and Computer Systems; Transport and Machine Science; Sustainable and Intelligent Transport Systems, Technologies and Logistics; Economics and Management; European studies and international security; Social work; Mathematics, Informatics and Physics; Education - Research and Innovations; Pedagogy and psychology; History, Ethnology and Folklore; Linguistics, Literature and Art Science; Health promotion; Medical and clinical diagnostic activities; Healthcare; Law; National Security; Pedagogy, Didactics and Methodology of training in..., Philology, Technical Sciences; Quality of higher education.*

Scientific reports and discussions contributed to deepening the understanding related to various aspects of regional economic transformation, based on the application of innovative strategies and approaches to new industries, the digital economy, society and its links with the business environment and quality of life. The use of systems thinking is the basis for creating effective applications and best practices in many areas of science and its impact on business development and growth. Participants in the prestigious forum united around the claim that the triad of future predictions manifests itself through the formation of enduring projections in the present.

The Ruse Union of Scientists and the University of Ruse are characterized by their multidisciplinary identity and cover competencies in all the above scientific fields and areas of research.

For the first time famous scientists in different fields from Bulgaria and Greece presented themselves as guests with plenary reports on current scientific topics at the joint parallel scientific event - Plenary Session of the 63rd Annual International Scientific Conference of RU\$SU'24:

1. YORDANKA CHOBANOVA,

Head of the European Commission Representation in Sofia, Bulgaria

*TOPIC: EU STRATEGIC AGENDA FOR 2024-2029 - SCIENTIFIC RESEARCH, INNOVATION AND EDUCATION.*

2. PROF. ANTONIOS GASTERATOS, PHD,

Dean of the Faculty of Engineering and Director of the Laboratory of Robotics and Automation,  
Democritus University of Thrace, Greece

*TOPIC: UNMANNED AERIAL VEHICLES: APPLICATIONS WITH EMBEDDED VISION SYSTEMS*

3. KRISTINA ESKENAZI,

Chairwoman of the Health&Life Sciences Cluster Bulgaria

*TOPIC: (IM)POSSIBLE AI: SUPPORTING SPINOFF COMPANIES*

4. Eng. RUMEN STOIMENOV,

Head of Graphics and Engineering Competence Center at Siemens Bulgaria

*TOPIC: THE INDUSTRIAL METAVERSE: OPPORTUNITIES AND CHALLENGES*

All abstracts approved for presentation at the conference with keywords and cited literature that meet the layout requirements were included in the "Collection of reports - program and abstracts of the 62nd ISC of the University of Ruse'24". The program is available on the conference website.

After double anonymous reviews, the Program Committee nominates one paper from each scientific section, which were developed and presented in English. They are published in the present "**BEST PAPER Crystal Prize'24 Papers**", both in paper and online at the conference website.

The book is part of the series Proceedings of the University of Ruse, online on the conference website: ISSN 2603-4123 (online), registered in NACID and COBISS.

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On behalf of the Conference co-organisers,

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