



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

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

*59<sup>th</sup> Annual Scientific Conference - University of Ruse and Union of Scientists*

**NEW INDUSTRIES, DIGITAL ECONOMY,  
SOCIETY - PROJECTIONS OF THE FUTURE III**

**2020 – Ruse, Silistra, Razgrad**

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## ADDRESS OF THE PROGRAM COMMITTEE

The University of Ruse and the Union of Scientists - Ruse are pleased to welcome all participants and guests of the 59th Annual International Scientific Conference, which was organized jointly by our two institutions. Scientific and plenary sessions were held respectively in Silistra - on October 16, in Ruse - on October 12 and 13 and in Razgrad - on November 6 and 7, 2020. The edition of the international scientific forum was included in the festive annual calendar with events dedicated to the 75th Anniversary of Angel Kanchev University of Ruse.

The topic of the conference was *"New industries, digital economy, society - Forecasts for the future" - III*. The program of the scientific forum included the presentation of 390 scientific communications, abstracts and book premieres, as well as research results that were presented during all session days and at other parallel forum events. Scientists from 76 universities and research organizations in 15 countries (Belarus, Bulgaria, Italy, Spain, Israel, Kazakhstan, Kuwait, Moldova, Poland, Romania, RS Macedonia, Croatia, Turkey, Ukraine, and France) participated in the Conference.

For the first time, famous scientists from France, Turkey, Romania and Bulgaria presented themselves as guests with plenary reports at the joint parallel scientific event - 7 th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE):

1. **Gilles Notton, PhD** - University of Corsica Pasquale Paoli, France, Senior Researcher Tilos,
2. **Gabriela Cîrciumaru, PhD** - National Institute for Research and Development in Electrical Engineering ICPE-CA Bucharest, Romania, Senior researcher, Head of the Renewable Energy Sources and Energy Efficiency Department
3. **Assoc. Prof. Radosveta Sokullu, PhD** - Ege University, Turkey Head of the Telecommunications Branch IoT in Agriculture and
4. **Assoc. Prof. Ludmil Stoyanov, PhD** Technical University of Sofia, Bulgaria, Vice-dean of R&D and International Cooperation, French Faculty of Electrical Engineering Application of Renewable Energy Sources for Irrigation Power Supply in Bulgaria.

The authors, participants in the scientific forum and the parallel events discussed their views and creative results in 39 sessions in 31 sections, of which: in 31 sessions in 24 sections in Ruse (320 reports), in 5 sessions in 4 sections (38 reports). ) in Razgrad, and in 4 sessions of 3 sections (32 reports) in Silistra.

The following areas of research and problems are presented, which correspond to the topic of the Conference:

*Agricultural machinery and technologies; Maintenance and reliability; Thermal, hydro- and pneumatic equipment; Ecology and environmental protection; Chemical technologies; Bio- and food technologies; Mechanical engineering and machine-building technologies; Electrical and electronic equipment and automation; Communication systems and networks; Transport and machine-building; Economy and management; Political sciences and security; Linguistic and cultural science; Mathematics, informatics and physics; Education – research and innovations; Pedagogy and psychology; History, ethnology and folklore; Linguistics, literature and art science; Health prevention and social work; Health promotion.*

The final session of the nominated papers in the section for students, doctoral students and young scientists was held in an online meeting on November 11, where 13 Crystal Prizes "Best paper" were awarded to young scientists from 4 countries (France, Spain, Italy and Bulgaria) for publications in the main scientific directions of the Conference.

Due to the great interest of scientists from the country and abroad to the thematic areas in 2019, the topic "*New industries, digital economy, society - forecasts for the future - III*" was in its third edition this year. The trends of the future are projected into the present and outline the finding of lasting sustainable dimensions.

The presented 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, digital economy, society and its connections with the business environment and quality of life. The use of systematic thinking has been the basis for creating effective applications and best practices in many areas of science and its impact on business development and growth.


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.

All abstracts with keywords and references approved for presentation at the conference that meet the layout requirements were included in the "Proceedings - Program and Abstracts of the 59th ISC of the University of Ruse'20". The program is available on the Conference website.

After a double anonymous review, the Program Committee nominated up to two reports from each scientific section (1 for one distinguished scientist and 1 for a young scientist in the relevant scientific field), which were developed and presented in English. They are published in the Collective Scientific Papers "Reports Awarded with BEST PAPER Crystal Prize'20", both on paper and online on 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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