



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

Reports Awarded with "Best Paper" Crystal Prize

59th 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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CONTENTS

ADDRESS OF THE PROGRAM COMMITTEE	3
PROGRAMME COMMITTEE	5
ORGANISING COMMITTEE	8
CONTENTS	10
REPORTS AWARDED WITH "BEST PAPER" CRYSTAL PRIZE'20	14
FRI-ONLINE-1-AMT&ASVM-06 Theoretical and Experimental Research of Technological Properties of the Agricultural Bridge Aggregates <i>Volodymyr Bulgakov, Stanislav Nikolaenko, Hristo Beloev, Volodymyr Kuvachov,</i> <i>Valerii Adamchuk, Zinoviy Ruzhylko, Semjons Ivanovs</i>	15
FRI-ONLINE-1-MEMBT-02 Simulation Driven Design of Plastic Water Tank <i>Ivelin V. Ivanov, Danail Gospodinov, Dimitar Velchev</i>	23
FRI-ONLINE-1-EEEE-03 Electrocardiographic Signal Modeling in a Linear and Vector Plane <i>Aneliya Manukova</i>	31
FRI-ONLINE-1-CCT1-01 Implementation of the CSP Semantics of Inter-Process Communications Using the C++11 Standard Library <i>Milen Loukantchevsky</i>	37
FRI-ONLINE-1-CCT2-13 Analysis of Different Types of Neural Networks and their Application to Real-World Challenges <i>Georgi Georgiev, Diyana Kinaneva, Georgi Hristov, Plamen Zahariev</i>	44
FRI-2.209-2-TMS-03 HCCI Combustion Modeling: Defining the Effective EGR Operating Range <i>Svetoslav Mihalkov, Plamen Punov</i>	50
FRI-2.209-2-TMS-04 Comparative Analysis of the Noise Level of an Electric Vehicle According to the Road Surface <i>Gergana Staneva, Kamelia Dimitrova</i>	57
FRI-2.204-2-SITST-09 GIS Based Analysis of Pedestrian-Vehicle Crash Hotspots and Identifying Unsafe Transit Access in the Regions of Municipality Ruse <i>Stanimir Penev</i>	63
FRI-ONLINE-1-EM1 Some Challenges Upon Higher Education in the Autumn 2020 <i>Miglena Pencheva</i>	69
FRI-ONLINE-1-EM2 Effects of Covid-19 on the Banking Sector – Evidence for Bulgaria <i>Kamelia Assenova</i>	76
FRI-2G.509-2-ESSIR-05 Theories on Separatism as a Challenge to State Governance <i>Eva Parvanova</i>	82

FRI-ONLINE-1-MIP-03	
Review of Several Techniques for Accelerating Physical Simulations on the GPU	
<i>Tzvetomir Vassilev</i>	91
FRI-ONLINE-1-MIP-05	
Predictive Analysis and Evaluation of the Bulgarian Economy's Most Significant Indicators	
<i>Slavi Georgiev, Byulent Idirizov</i>	97
FRI-ONLINE-1-PP-03	
Roma Girls and Women – Issues and Opportunities for Support of their Education	
<i>Denitsa Alipieva</i>	111
FRI-ONLINE-1-PP-11	
Project Based Learning in an Intercultural Environment through Etwinning	
<i>Galina Georgieva</i>	116
FRI-ONLINE-LL-05	
Aesthetic Challenges to the Bulgarian Theater at its Encounter with Modern European Drama at the Beginning of 20 th Century	
<i>Velislava Doneva</i>	120
FRI-ONLINE-1-ERI-01	
Betting on Answers as a Way of Engaging Students	
<i>Aleksandar Kosuliev, Elizar Stanev</i>	127
FRI-ONLINE-1-LS-13	
Scope of the Term “Public Enterprise” Under the Public Enterprises Act	
<i>Anastas Georgiev</i>	132
FRI-ONLINE-1-NS-06	
Procedural and Tactical Features While Interviewing Domestic Violence Female Victims	
<i>Nevena Ivanova Ruseva, Plamen Pyrvanov Penchev, Desislava Viktorova Petrova-Lyoleva</i> . 138	
FRI-ONLINE-HP-13	
Is There a Place for Kinesitherapy in the Treatment of Patients with Covid - 19?	
<i>Denitsa Vasileva</i>	145
FRI-ONLINE-HC-08	
Criminal Liability of the Healthcare Specialist – the Nurse	
<i>Ivaylo Ivanov, Atanas Atanasov, Despina Georgieva</i>	153
FRI-ONLINE-1-QHE-07	
Structure of the Academic Staff of the University of Ruse for the Period 2015-2020 and its Impact on the Quality of Education	
<i>Orlin Petrov</i>	159
FRI-ONLINE-KS(R)-01	
Computer Vision Application in the Quality Evaluation of Cereal-Based Products	
<i>Jasmina Lukinac, Daliborka Koceva Komlenić, Gjore Nakov, Nastia Vasileva, Marko Jukić</i>	165
FRI-ONLINE-1-CT(R)-01	
Application of Chemometric Methods Coupled with Infrared Spectroscopy for Determination of Ethanol in Presence of Methanol in Aqueous Solutions	
<i>Petar Petrov</i>	180
FRI-ONLINE-1-CT(R)-03	
Phosphorus Recovery from Swine Slurry by Acidifying Ultrafiltration and Struvite Crystallisation	
<i>Maya Stancheva, Valentin Nenov, Hyusein Yemendzhiev</i>	186

FRI-ONLINE-1-BFT(R)-01 Kinetic Analysis of Bimolecular „Virus – Host Cell Interaction“ by Surface Plasmon Resonance (SPR) Method <i>Radoslav Marinov, Evdokiya Belina, Petia Genova-Kalou, Georgi Dyankov, Todor Kantardjiev</i>	192
FRI-ONLINE-1-BFT(R)-07 Effect of Processing with Alternative Non-Thermal Technologies and Edible Packaging on Food Safety and Quality <i>Stefan Stefanov, Yordanka Stefanova</i>	198
FRI-227-1-PPTM(S)-08 Health and Health Education in School <i>Antoaneta Momchilova</i>	216
FRI-227-2-PPTM(S)-06 Language – Culture Relation and Teacher’s Intercultural Competence <i>Diana Bebenova-Nikolova</i>	224
REPORTS AWARDED WITH "BEST PAPER" CRYSTAL PRIZE OF STUDENTS, PHD STUDENTS AND YOUNG SCIENTISTS	230
WED-ONLINE-SSS-AMT&ASVM-01 Greenhouse Technologies for Tomatoes <i>Angel Ivanov, Petya Angelova</i>	231
WED-ONLINE-SSS-MEMBT-01 Experimental Study and Assessment of the Causes for Vibrations in Machining Technology Systems During Face Milling Operations <i>Danimir Dimov, Dimitar Dimitrov</i>	237
THU-ONLINE-SSS-EEEE-02 Analysis and Layout Design of Current Mirrors in Integrated Circuits <i>Denis Sami, Bachelor, Krasimira Stefanova Shtereva</i>	245
THU-ONLINE-SSS-CCT-04 Kukermat: Interpreting a Bulgarian Costume in Substance Painter <i>Nikolay Marinov</i>	251
WED-ONLINE-SSS-TMS-01 Developing of System for Fast Emergency Evacuation the Pilot of Electromobile DTT-3 <i>Emil Mitev</i>	258
THU-ONLINE-SSS-PP-14 Internet of Everything and its Effects on Education <i>Dobryan Boev, Ivanka Mavrodieva</i>	263
THU-ONLINE-SSS-EM-05 Literature Review on Lean Philosophy and the Advantages of its Implementation <i>Plamen Penchev, Pavel Vitliemov</i>	268
MON-ONLINE-SSS-LS-02 Social Model of Disability: Future and Challenges in its Application in Bulgarian Legislature <i>Simona Marinova</i>	275
THU-ONLINE-SSS-HP-18 Exchange of Student Experience in Education through Participation in International Project <i>Viktoria Ivanova, Liliya Todorova</i>	280

WED-ONLINE-SSS-HC-27	
Skin-To-Skin and the Undisturbed First Hour After Birth – Attitudes and Current Recommendations	
<i>Daniela Lyutakova, Ivanichka Serbezova</i>	285
ERI-ONLINE-SSS-BFT(R)-01	
Research of the Process of Kneading Dough in Dough Mixer of Continuous Action	
<i>Tymchyshyn Andrii, Vitalii Rachok, Yuliya Telychkun</i>	293
ERI-ONLINE-SSS-BFT(R)-02	
The Influence of Flours from Food By-Products on the Falling Number	
<i>Daniela Gicheva, Gjore Nakov, Davor Daniloski</i>	297
FRI-ONLINE-SSS-SSH(S)-06	
Freedom of Speech – Definition and History	
<i>Ivan Krasimirov Savov</i>	303
FRI-ONLINE-SSS-PSTM(S)-02	
How Teachers Can Talk to Students about Covid-19 and Online Teaching	
<i>Mervin Murad</i>	307
LIST OF THE REVIEWERS	311

Reports Awarded with "Best Paper" Crystal Prize'20