



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

**РУСЕНСКИ УНИВЕРСИТЕТ “АНГЕЛ КЪНЧЕВ”
СЪЮЗ НА УЧЕНИТЕ – РУСЕ**

Reports Awarded with "Best Paper" Crystal Prize

55th Annual Science Conference of Ruse University

**SMART SPECIALIZATION -
INNOVATIVE STRATEGY FOR REGIONAL ECONOMIC
TRANSFORMATION**

55^{та} Годишна конференция на Русенския университет

**ИНТЕЛИГЕНТНАТА СПЕЦИАЛИЗАЦИЯ -
ИНОВАТИВНА СТРАТЕГИЯ ЗА РЕГИОНАЛНА ИКОНОМИЧЕСКА
ТРАНСФОРМАЦИЯ**

2016 – Ruse, Silistra, Razgrad

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INTRODUCTION

55th Annual Scientific Conference of the University of Ruse is jointly organized by the Union of Scientists - Ruse. Scientific and plenary sessions were held respectively in Silistra - May 20, BlackSeaRama - July 6, Ruse - 28 and 29 October and Razgrad - November 4, 2016.

Theme of the conference is: "*Smart Specialization - an Innovative Strategy for Regional Economic Transformation*".

During the plenary sessions, roundtables and working sessions of the conference were presented more than 400 papers in the following scientific areas:

Agricultural Machinery and Technologies, Agrarian Science and Veterinary Medicine, Repair and Reliability, Heat Transfer, Hydraulic and Pneumatic, Ecology and Environmental Protection, Industrial Design, Mechanics and Mechanical Engineering, Electrical, Engineering, Electronics and Automation, Computer Systems & Technologies, Communication Systems & Network Technologies, Transport and Machine Science, Models of knowledge management, Economics and Management, Political Science and International Security, Linguoculturology and Communication Studies, Law, Mathematics, Informatics and Physics, Education – Research and Innovations, Pedagogy and Psychology, History, Ethnology and Folklore, Linguistics, Literary Theory and Art Studies, Health Prevention and Social Work, Health Care, Physical Education and Sport, Quality Assurance in Higher Education, Linguistics, Theory of Literature and History, Pedagogy, Psychology and Didactics, Natural Sciences, Mathematics and Technical Sciences, Chemical Technologies, Biotechnologies and Food Technologies.

We hope that this book presented in the scientific papers and discussions will contribute to deepening the understanding related to various aspects of regional economic transformation, based on the implementation of innovative strategies and approaches to smart specialization. The use of systems thinking is the basis for creating effective applications and best practices in many areas of science and interest in them by businesses is predetermined.

Union of Scientists - Ruse and Ruse University with its interdisciplinary structures validate competencies in presented scientific fields.

The book includes reports, awarded with "Best Paper" Crystal Prize" (special edition), nominated by independent reviewers after double peer review. The list of titles and authors is made by the order of presentation of the reports. It includes codes for each paper, a title in English and authors in the order, determined by themselves. Below the line is marked the title of the original language, which is presented report. By the decision of the reviewers, selected papers are invited for publication in specialized journals of University of Ruse and the Union of Scientists – Ruse that correspond with the theme of the conference. At the end of Proceedings is inserted a list of reviewers, who have participated in the selection of the reports' collection.

Full presentation of the works of the conference, including Booklet Program and abstracts, Selected award-winning and all read reports in the scientific sections are posted online on the site of the conference at: <http://conf.uni-ruse.bg>.

From the co-organizers of the conference,

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Prof. Velizara Pencheva, PhD - RECTOR of the UR

Prof. Hr. Beloev, DTS, COR MEM CHAIR PERSON of the USR

Scientific Secretary:

Prof. Diana Antonova PhD, Vice-Rector Research

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