

# PROCEEDINGS

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of the Union of Scientists - Ruse

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Book 5

## Mathematics, Informatics and Physics



Volume 14, 2017



RUSE

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## Mathematics, Informatics and Physics

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## **OF THE UNION OF SCIENTISTS - RUSE**

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# **PROCEEDINGS**

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**Assoc. Prof. Tsetska Rashkova**

(on her 65th birthday)



Tsetska Rashkova was born in Ruse. She graduated from the Faculty of Mathematics and Mechanics of Sofia State University “St. Kliment Ohridski” in 1976 as a Master in Mathematics with specialization in Algebra and started her career as an assistant professor at the Department of Mathematics of former Higher Institute of Mechanical Engineering, Mechanization and Electrification of Agriculture, now University of Ruse “Angel Kanchev”. In 1997 she defended her Ph.D., Full Member of BAS, Prof. Dr. Habil. Vesselin Drensky being her supervisor. In 2000 she became an Associate Professor in Mathematics.

Her first field of research was structure theory of associative rings. Over the years Tsetska Rashkova worked on algebras with polynomial identities, applications of the Grassmann algebra, computer algebra, usage of different scientific methods both in teaching and in solving real everyday problems. She is a reviewer of AMS.

Tsetska Rashkova had one Ph.D. student, now an associate professor and many diploma students at the University of Ruse “Angel Kanchev”, her only place of work. She is the author of more than 80 scientific articles and 4 textbooks for her students.

More than 15 years she is a Chairman of the Section in Mathematics, Informatics and Physics of the Union of Scientists – Ruse and a Managing Editor of the Proceedings

of the US - Ruse - book 5 Mathematics, Informatics and Physics. Since 2006 all papers in this book have been published in English and there have been authors from Greece, Russia, USA, Hungary and different towns in Bulgaria as well – Gabrovo, Varna, Plovdiv, Sofia, Sliven.

We warmly congratulate Tsetska Rashkova on her 65th birthday and wish her good health, happiness in her family and many years mathematical life.

We appreciate greatly the decision of the authors in this volume to dedicate their papers to this anniversary.

On behalf of the Guest Editors of this volume,  
Stepan Tersian, Galina Krumova, Tsvetomir Vassilev, Victoria Rashkova

**The Ruse Branch of the Union of Scientists in Bulgaria** was founded in 1956.

Its first Chairman was Prof. Stoyan Petrov. He was followed by Prof. Trifon Georgiev, Prof. Kolyo Vasilev, Prof. Georgi Popov, Prof. Mityo Kanev, Assoc. Prof. Boris Borisov, Prof. Emil Marinov, Prof. Hristo Beloev. The individual members number nearly 300 recognized scientists from Ruse, organized in 13 scientific sections. There are several collective members too – organizations and companies from Ruse, known for their success in the field of science and higher education, or their applied research activities. The activities of the Union of Scientists – Ruse are numerous: scientific, educational and other humanitarian events directly related to hot issues in the development of Ruse region, including its infrastructure, environment, history and future development; commitment to the development of the scientific organizations in Ruse, the professional development and growth of the scientists and the protection of their individual rights.

The Union of Scientists – Ruse (US – Ruse) organizes publishing of scientific and popular informative literature, and since 1998 – the "Proceedings of the Union of Scientists- Ruse".

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**BOOK 5**

**"MATHEMATICS,  
INFORMATICS AND  
PHYSICS"**

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