



Mitko Shopov

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WORK EXPERIENCE

Associate professor

Technical University of Sofia, branch Plovdiv [09/10/2017 – Current]

City: Plovdiv

Country: Bulgaria

Name of unit or department: Computer Systems and Technologies - **Business or sector:** Education

Assistant professor

Technical University of Sofia, branch Plovdiv [01/12/2014 – 08/10/2017]

Address: Plovdiv (Bulgaria)

City: Plovdiv

Country: Bulgaria

Name of unit or department: Computer Systems and Technologies - **Business or sector:** Education

Assistant

Technical University of Sofia, branch Plovdiv [19/09/2011 – 18/09/2013]

Address: Plovdiv (Bulgaria)

Name of unit or department: Computer Systems and Technologies - **Business or sector:** Education

Systems programmer

Technical University of Sofia, branch Plovdiv [01/07/2008 – 18/09/2011]

Address: Plovdiv (Bulgaria)

Name of unit or department: Information and Communication Technologies - **Business or sector:** Professional, scientific and technical activities

EDUCATION AND TRAINING

PhD

Technical University of Sofia, branch Plovdiv [07/2008 – 06/2011]

Address: Plovdiv (Bulgaria)

Level in EQF: EQF level 8

Thesis: Methods and tools for development of Web-based Personal Health-care Systems

Certificate in Computer Science

University of Veliko Turnovo [01/11/2010 – 27/12/2011]

Address: Veliko Turnovo (Bulgaria)

- Intelligent computational methods
- Application of linear-programming problems in research
- Web programming
- VHDL Design
- Project management

Certificate in Grid Computing

Enabling Grids for E-science III (EGEE-III) [30/01/2010 – 30/01/2010]

Address: Plovdiv (Bulgaria)

Using EGEE middleware:

- Authentication, Authorization and Security
- Using the Grid certificate and job submission
- Data management in gLite middleware
- Information systems in gLite middleware

MSc Computer Engineering

Technical University of Sofia, branch Plovdiv [10/2006 – 02/2008]

Address: Plovdiv (Bulgaria)

Level in EQF: EQF level 7

Certificate for CSIRT Professional

Trans-European Research and Education Networking Association (TERENA) [04/07/2007 – 06/07/2007]

Address: Sofia (Bulgaria)

BSc Computer Engineering

Technical University of Sofia, branch Plovdiv [09/2001 – 10/2005]

Address: Plovdiv (Bulgaria)

Level in EQF: EQF level 6

High school degree

High School of Mathematics "Acad. Kiril Popov" [09/1996 – 06/2001]

Address: Plovdiv (Bulgaria)

Level in EQF: EQF level 5

English, Mathematics, Informatics

LANGUAGE SKILLS

Mother tongue(s): **Bulgarian**

Other language(s):

English

LISTENING C1 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

PUBLICATIONS

Selected publications

<https://scholar.google.com/citations?user=3HycvMYAAAAJ>

- Pazhev, G., Spasov, G., Shopov, M., Petrova, G., "On the use of blockchain technologies in smart home applications," IOP Conference Series: Materials Science and Engineering, 878 (1), art. no. 012023.
- Shopov, M., Kakanakova, I., Kakanakov, N., Mateev, B., "An mHealth application for female fertility assistance," 4th International Conference on Smart and Sustainable Technologies, SpliTech 2019, art. no. 8783086.
- Shopov, M., "IoT Gateway for Smart Metering in Electrical Power Systems - Software Architecture," 40th Jubilee International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings, art. no. 4278, pp. 1165-1169.
- Kakanakov, N., M. Shopov, "Adaptive models for security and data protection in IoT with Cloud technologies," 40th Jubilee International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings, art. no. 4311, pp. 1192-1195.
- M. Shopov, "An M2M solution for smart metering in electrical power systems," International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO - Proceedings, art. no. 7522311, pp. 1141-1144, 2016.
- D. Grozev, M. Shopov, N. Kakakanakov, "Practical Implementation of Private Cloud with traffic optimization," International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO - Proceedings, art. no. 7522156, pp. 298-303, 2016.
- Grozev, D., Spasov, G., Shopov, M., Kakanakov, N., Petrova, G., "Experimental study of Cloud Computing based SCADA in Electrical Power Systems," 25th International Scientific Conference Electronics, ET 2016, art. no. 7753482.
- M. Shopov, "Practical Implementations of Cloud Computing Technologies for Smart Metering in Electrical Power Systems," Journal of Electronics, vol. 9, pp. 124-127, 2015.
- M. Shopov, Spasov, G., Petrova, G. "Modeling and analysis of the gateway node in body sensor networks," International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO - Proceedings, pp.457-461, 21-25 May, 2012.
- M. Shopov, G. Petrova, and G. Spasov "Evaluation of Zigbee-based Body Sensor Networks," In Annual Journal of Electronics, vol.5, no.2, pp. 60-63, 2011, ISSN 1313-1842.
- M. Shopov, V. Spasova, G Spasov, "Testbed Environment for Experimental Analysis and Application Prototyping in Body Sensor Networks, " Proc. of CompSysTech, pp. 263-268, June 2010.
- M. Shopov, G. Spasov, and G. Petrova, "Architectural models for realization of Web-based Personal Health Systems," In Proceedings of CompSysTech, pp.IIIB.5.1-6, June 18-19, 2009, Rousse, Bulgaria, ACM ICPS, ISBN 978-1-60558-986-2.
- N. Kakanakov, M. Shopov, I. Stankov, and G. Spasov, "Web Services and Data Integration in Distributed Automation and Information Systems in Internet Environment," International Review on Computers and Software, vol. 1, no. 3, pp. 194-201, Nov. 2006.

PROJECTS

Projects

- 2014-2017 National Science Fund of Bulgaria project, contract FNI E02/31 (Technical University of Sofia)
subject: "Investigation of methods and tools for application of Cloud Technologies for measurement and control of electric power systems"
- 2010-2012 National Science Fund of Bulgaria project, contract DVU-10-0100/2010 (Medical University of Plovdiv)
subject: "Modern approaches for design of Clinical Information System for observation of pediatrics surgery diseases (PedSurgCIS)"
- 2006-2008 (completed) National Science Fund of Bulgaria project, contract MU-MI-102/2005
subject: "Analysis of attacks and methods for securing Web services in global networks"
- 2008-2009 (completed) Technical University of Sofia project
subject: "Development of an experimental patient monitor for collecting data from a network of sensors for physiological parameters"