

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

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WORK EXPERIENCE

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| <ul style="list-style-type: none">• Dates (from - to)• Name and address of employer• Type of business or sector• Occupation or position held• Main activities and responsibilities | <p>2017 – to present</p> <p>Institute of Robotics, Bulgarian Academy of Sciences, branch Veliko Tarnovo</p> <p>Scientific and research activity in the field of biosignal processing and analysis in medical robotics</p> <p>Assoc. Professor</p> <p>Scientific research in the field of modelling, research, analysis and evaluation of biosignals and data. Creation of software systems for numerical and graphical analysis of the heart rate variability. Modelling of fractal processes based on fractal Gaussian noise, fractal Brownian motion and wavelet transforms and their application in the study of cardiac signals.</p> |
| <ul style="list-style-type: none">• Dates (from - to)• Name and address of employer• Type of business or sector• Occupation or position held• Main activities and responsibilities | <p>2010-2017</p> <p>Institute of System Engineering and Robotics, Bulgarian Academy of Sciences, branch Veliko Tarnovo</p> <p>Scientific and research activity in the field of processing and analysis of biosignals and medical images.</p> <p>Assist. Professor</p> <p>Scientific research in the field of compression of medical images (digital mammograms), fractal and multifractal analysis of one-dimensional and two-dimensional biosignals.</p> |
| <ul style="list-style-type: none">• Dates (from - to)• Name and address of employer• Type of business or sector• Occupation or position held• Main activities and responsibilities | <p>1995-2010</p> <p>Central Laboratory of Mechatronics and Instrumentation, Bulgarian Academy of Sciences, branch V. Tarnovo</p> <p>Scientific and research activity in the field of information systems, complexes and networks.</p> <p>Research fellow</p> <p>Research activity in the field of information systems, complexes and networks. Participation in scientific and applied developments under contracts with the Ministry of Defence:</p> <ul style="list-style-type: none">- "Artillery calculator Perla".- "Tools for automating work with an artillery calculator". |
| <ul style="list-style-type: none">• Dates (from - to)• Name and address of employer• Type of business or sector• Occupation or position held• Main activities and responsibilities | <p>1987-1994</p> <p>Institute of Technical Cybernetics and Robotics, Bulgarian Academy of Sciences, branch Veliko Tarnovo</p> <p>Research activity in the field of high-speed network technologies. Development of computer software for military applications under contracts with the Department of Defence</p> <p>Research fellow</p> <p>Participation in the developments as a software engineer</p> |

- Dates (from - to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

1980-1987
 Institute for Teleprocessing Systems and Networks, Veliko Tarnovo
 Development of software programs
 Programmer
 Participation in the developments as a software engineer

EDUCATION AND TRAINING

- Dates (from - to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
 - Level in national classification (if appropriate)

2009-2010
 Technical university-Gabrovo

Defended dissertation on the topic: "Modelling and research of the influence of the self-similar processes on traffic in computer networks" in the scientific specialty "Computer systems, complexes and networks".
 Awarded educational and scientific degree "Doctor".

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
 - Level in national classification (if appropriate)

1974-1979
 Higher Mechanical and Electrical Engineering Institute, Gabrovo.

Electronic technique

Electrical Engineer Master
 Electrical Engineer Master

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

NATIVE LANGUAGE

Bulgarian

OTHER LANGUAGES

- Reading skills
 - Writing skills
 - Verbal skills

ENGLISH
 VERY GOOD
 VERY GOOD
 VERY GOOD

- Reading skills
 - Writing skills
 - Verbal skills

RUSSIAN
 VERY GOOD
 VERY GOOD
 VERY GOOD

SOCIAL SKILLS AND COMPETENCES

Coexistence with other people in an intercultural environment, in situations where communication and teamwork are essential (e.g. in culture and sports), etc.

CHAIRMAN OF THE BOARD OF SCHOOL TRUSTEES AT "PETKO RACHEV SLAVEIKOV" PRIMARY SCHOOL, V. TARNOVO (2008-2012).

TECHNICAL SKILLS AND COMPETENCES

With computers, specific kinds of

PROGRAMMING LANGUAGES: C/C++, MATLAB, PASCAL, DELPHI.

MORE INFORMATION

PROJECTS

Participation in 3 international and 2 national projects.

- Project Cross Border Connect – participant in project from the Bulgarian side, to create long-term technological and innovative collaborations between representatives of 8 European countries in the period 2003-2007. The project is managed by the European Business and Innovation Centers Network, Brussels, www.ebn.be
- Project Cross Border Clustering - participant in the project from the Bulgarian side as a subcontractor of the Business Innovation Center, Frankfurt (Oder), www.bic-ffo.de for the development of technological clusters with the participation of 10 European countries in the period 2007-2009. The project is managed by the European network of business and innovation centers (European Business and Innovation Centers Network), Brussels, www.ebn.be
- Project NEBAL – participant in the project from the Bulgarian side, for the development of technological contacts between small and rapidly developing municipalities of 5 European countries in the period 2009-2011. The project is managed by DePoWi, a non-governmental German-Polish non-profit organization.
- Project under OP "Development of human resources", name: "Support for the development of doctoral students, postdoctoral students, specialists and young scientists". Participant as a postdoctoral student, to increase the effectiveness and quality of training in the field of systems engineering and robotics and build a competitive scientific potential in this field in the period 04.10.2012 - 03.10.2014. The project was implemented with the financial support of the European Social Fund (2007-2013) and Republic of Bulgaria - Ministry of Education, Youth and Science under OP "Development of Human Resources".
- Lead project on the topic: "Research on the application of new mathematical methods for the analysis of cardiac data", financed by the "Scientific Research" Fund, contract No. KP-06-H22/5 dated 07.12.2018. <https://www.cardiomath.org/>

APPLIED DEVELOPMENTS

- Participation in scientific and applied development "Artillery calculator - Perla" under contract with the Ministry of Defense is accepted for service in the Bulgarian Army with the Protocol of 1998.
- Participation in the creation of a scientific and applied development "Photoplethysmographic system for registration, processing, mathematical analysis and evaluation of cardiac signals".

TEACHING ACTIVITY

Honorary lecturer at the University of Veliko Tarnovo "St. St. Cyril and Methodius", Faculty of "Mathematics and Informatics". Taught discipline: "Compression of information" (2010-2018).

PARTICIPATION IN PROGRAM COMMITTEES OF CONFERENCES

- Member of the program committee of an international conference „International Conference on Recent Trends in Engineering, Science and Technology”, India, Telangana, 2016 r.
- Member of the program committee of the conference Innovative STEM education STEMEDU' 2020, STEMEDU' 2021, STEMEDU' 2022 and STEMEDU'2023, Veliko Tarnovo.

MEMBERSHIP OF EDITORIAL BOARDS OF SCIENTIFIC PUBLICATIONS

Member of the editorial board of the journal "Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes", 2015.

MEMBERSHIP IN SCIENTIFIC ORGANIZATIONS

- Member of the Automation and Informatics Union.
- Member of the Management Board of the Territorial Organization of Scientific and Technical Unions - branch V.Tarnovo.

- Member of the Union of Scientists - branch V. Tarnovo.

PUBLICATIONS Over 110 publications in scientific journals and scientific conference volumes.

QUOTATIONS Over 300 citations were noted, of which 120 were in Scopus.

- REWARDS
- The Crystal Award for Best Paper from CompSysTech' 2012 International Conference.
 - The Best Paper from International Conference Automatics and Informatics, 2013.
 - Certificate from ISIR-BAS for scientific contributions in the field of digital and telemedicine, 2015.
 - The Crystal Award for Best Paper from CompSysTech' 2019 International Conference.
 - The Crystal Award for Best Paper from CompSysTech' 2021 International Conference.
 - The Crystal Award for Best Paper from CompSysTech' 2022 International Conference.

Date: 31.03.2023