AUTOBIOGRAPHY

PERSONAL INFORMATION

Name: **Nina FotevaValchkova**

e-mail: nvalchkova@abv.bg

SECONDARY EDUCATION: 1977 SMG II "Anastasia Dimitrova " - Pleven

HIGHER EDUCATION: 1983 Technical University - Ruse
Specialty: Manufacturing Technologies and machine tools .

WORK EXPERIENCE:
04.1983 - 08.1989 – Institute of Rrobotics " Beroe "-St.Zagora
09.1989 - 01.1991 – ITCR - BAS
01.1991 - 04.1994 – Institute of Mechatronics - BAS
04.1994 - 06.2010 – CLMI - BAS
07.2010 – 17.04.2017 – ISER – BAS
from 18.04.2017 г – Institute of Robotics - BAS

DEGREES: DOCTOR - 10.04.2013

ACADEMIC TITLES :
1986 -1995 - Research Associate III level
1995 -2001 - Research Associate II level
2001 -2010 - Research Fellow I degree
2010 - 2017 - Assistant professor
from 2018 – Assoc. Professor

MEMBERSHIP: Association for Computing Machinery - ACM from 2020.
Marie Curie Alumni Association - MCAA from 2020.
Member of the Union of Automation and Informatics (SAI).
Member of the Bulgarian Robotics Society (BDR).

FIELDS: Robots and manipulators, Mechatronics ,
Dynamics and stability of the mechanical systems, Identification

NUMBER OF SCIENTIFIC PUBLICATIONS AND CITATIONS:
Total number of scientific publications: – 93;
From them with impact factor or impact rang – 8;
Number of citations of the scientific publications – 63;
Number of scientific publications in the last five year- 21;
From them with impact factor or impact rang – 7;
Number of citations of the scientific publications in the last five years: - 47

PARTICIPATION IN SCIENTIFIC:
Participant in a research project BAS - over 25 projects
Participant in a research project funded by the Ministry of Education - 7 projects
Participant in the project or contract for the implementation and commercialization of research products - 4 projects

PARTICIPATION IN PROJECTS SUPPORTED BY OTHER SOURCES
Funded under the "Competition for Funding Fundamental Scientific Research - 2021." from the Scientific Research Fund, Bulgaria.
Contest Type and Year: Project H2020-MSCA
Project number or acronym: SRF-2021 No. КП-06-H57/8.
Topic: "METHODOLOGY FOR DETERMINING THE FUNCTIONAL PARAMETERS OF A MOBILE COLLABORATIVE SERVICE ROBOT ASSISTANT IN HEALTH CARE"
Project manager: Assoc. Prof. Dr. Nina Valchkova

Financing organization: EU Funded
Contest Type and Year: Project H2020-MSCA
Project number or acronym: RISE-2017 No 777720. CybSPEED
Topic: Existing Robotics Technologies for the implementation of Special Education, Cyber-Physical Systems for Social Applications

PATENT PENDING IN BULGARIA: Application for a patent for the invention: Flexible Automated - ent . № 110278/15.12.2008g. .

PERSONAL SKILLS :
Languages: English - good
Russian – very good
Technical skills and competencies:
Very good knowledge of : Microsoft Office - Word, Excel, Power Point, Internet Applications, Outlook Express, Microsoft Outlook.

Social skills and competences :
• Teamwork .
• Conflict resolution .
• Creative and proactive personality.
• Responsible .
• Standby for further training and development in the professional field .

SELECTED SCIENTIFIC PUBLICATIONS

- Raykov Pl., Valchkova N., Zahariev R.. Analytical Coordinate Transformation for Manipulation when Using Robots to Serve People with Disabilities. International Conference on Electrical, Computer and Energy Technologies (ICECET), Prague, Czech Republic, IEEE, 2022, ISBN:978-166547087-2,
- DOI:10.1109/ICECET55527.2022.9872603, 1-6.
- Valchkova N., Zahariev R., Angelov G., Paunski J.. “Study of the Ethics in the Implementation of Collaborative Robots in the Training of Disadvantaged People. Proceedings of the Basque Conference on Cyber-Physical Systems and Artificial Intelligence., Basque Conference on Cyber-Physical Systems and Artificial Intelligence., 2022, DOI:https://doi.org/10.5281/zenodo.6574965, 275-285
- Zahariev R., Valchkova N., Angelov G., Paunski J.. “Design of Mobile Service Robots like Cyber Physical Systems for Pedagogical Rehabilitation in Special Education”. Proceedings of the Basque Conference on Cyber-Physical Systems and Artificial Intelligence., Basque Conference on Cyber-Physical Systems and Artificial Intelligence., 2022, DOI:https://doi.org/10.5281/zenodo.6574965, 261-272.

- Zahariev R., Valchkova N.. Existing Robotics Technologies for Implementation of Special Education. Research Anthology on Inclusive Practices for Educators and Administrators in Special Education (2 Volumes), IGI - Global, 2022, ISBN:13: 9781668436707; ISBN10: 1668436701; EISBN13: 9781668436714, DOI:10.4018/978-1-6684-3670-7.ch042, 1090, 757-774.
- Valchkova N., R.Zahariev. Optimization of Model Operator for Service Robot, Intended to Service Persons with Disability. TECIS-19" IFAC Conference on International Stability, Technology and Culture, 26-28 September, Sozopol, Bulgaria, 52, 25, ELSEVIER, IFAC-PapersOnLine, 2020, ISSN:2405-8963, 174-179.
- Roman Zahariev, Nina Valchkova, George Angelov, Yasen Paunski. Organization of Control and Collection of Environmental Information of Service Robots for People with Disabilities. Problems of Engineering Cybernetics and Robotics, Vol. 74, BULGARIAN ACADEMY OF SCIENCES, 2020, ISSN:ISSN 2738-7364, DOI:doi 10.7546/PECR.74.20.01, 3-12.
- Zahariev R., N. Valchkova, H Wagatsuma.. Service Robots for Special Education of Children with Disabilities: Robotized Systems for Social Applications.. Proceedings of the 21st International Conference on Computer Systems and Technologies'20, 2020, DOI:https://doi.acm.org/doi/abs/10.1145/3407982.3408023 Indexed in Scopus., 300-306.
- Zahariev R., N. Valchkova, G.Angelpv, Paunski Y,, Krastev A.. Robots for Help in Pedagogy and Rehabilitation. Pr. of the 20-th International Conference on Computer Systems and Technologies (CompSysTech'19), ACM, New York, NY, USA,, 2019, DOI:doi.org/10.1145/3345252.3345253, 1-7.
- Zahariev R., Valchkova N.. Existing Robotics Technologies for implementation of Special Education.. In: M. Dimitrova & H. Wagatsuma (Eds.) Cyber-Physical Systems for Social Applications, IGI-Global Pensylvania, USA, eEditorial Discovery®, 2019, ISBN:2327-3453, DOI:10.4018/978-1-5225-7879-6.ch003, 15, 44-61
- Valchkov L., N. Valchkova. METHODOLOGY FOR EFFICIENCY IMPROVEMENT IN WAREHOUSES: A CASE STUDY FROM THE WINTER SPORTS EQUIPMENT INDUSTRY. Proceedings in Manufacturing Systems, 13, 3, University "Politehnica" of Bucharest, 2018, ISSN:L-2067-9238, 95-102

Sofia 01.04.2023g . Signature: