



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Ani Todorova Boneva**
Address(es) Bl. 2, "Acad. G. Bonchev" Str., Sofia 1113, Bulgaria, IICT-BAS
Telephone(s) Mobile: 0887116251, 0888819939
Personal web <https://aniboneva.wordpress.com/>
E-mail a_boneva1964@abv.bg, ani.boneva@iict.bas.bg
Nationality Bulgarian
Date of birth 06.08.1964
Gender Female

Desired employment / Occupational field Software development, Management

Work experience

1. since – 2021 IICT – BASc, Engineer-Electronic
2. 2021 - 2010 IICT – BASc, Research Associate I degree (Assistant)
3. 2010 – 2004 Central Laboratory of Mechatronics and Instrumentation-BASc (CLMI-BAS), Research Associate I degree
4. 1999 - 2004 CLMI-BAS, Research Associate II degree
5. 1995 - 1999 CLMI-BAS, Research Associate III degree
6. 1993 - 1991 Technological Center-BASc, Team Leader
7. 1990 - 1991 Technological Center-BASc, Engineer

Name and address of employer **IICT-BAS**, Acad. G. Bonchev str. Bl. 2, 1113, Sofia, Bulgaria
Central Laboratory of Mechatronics and Instrumentation-BASc (CLMI-BAS), - Acad. Georgi Bonchev bl 2, Sofia 1113, Bulgaria

Type of business or sector Research

Education and training

Dates 1993 High school of managers, Economics University, Sofia
Specialization: Managing of Small Firm
1989 - 1983 Technical University, Sofia
Qualification: Electronic and Automation Engineer
1982 - 1979 108th Secondary School, Sofia
Subject: Mathematics

Personal skills and competences

Mother tongue(s) **Bulgarian**

Other language(s) **Russian, English,**

Self-assessment

European level ()*

English

Russian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
A2		A2		A1		A1		A2	
B2		B2		B2		B2		B2	

() Common European Framework of Reference for Languages*

Social skills and competences **Easy-going person**

Organisational skills and competences

Technical and computer skills and competences

Programming languages: C / C++, HTML; DHTML, Tcl/Tk
 Operating systems: MS-DOS, Windows
 Software products: MS Office 95/97/XP/2003, MatLab, Netscape Communicator 4.x/6.0, PhotoFinish, Paint Shop Pro 7.0, FinePrint pdfFactory v1.27. and other

Driving licence **No**

Publications**Selected Publications:**

1. Boneva, A., Ivanova, V., Vasilev, P., Ivanov, S., Ivanova, T., *Big Data Processing for Bulgarian Healthcare - Smart Cards and Some Simulating Decisions, Proceedings of the 8th IEEE International Conference "Big Data, Knowledge and Control Systems Engineering" (BdKCSE'2023), A hybrid conference, 02–03 November 2023, Sofia, Bulgaria, IEEE Xplore, Electronic ISBN:979-8-3503-1324-6, IEEE, 2023, pp. 1-8, DOI: 10.1109/BdKCSE59280.2023.10339733, URL: <https://ieeexplore.ieee.org/document/10339733>*
2. Ivanova, V., Boneva, A., Ivanov, S., Vasilev, P., *A Wireless Device to Modular Robotized Instrument for Health Information, Computer Science & Engineering: An International Journal (CSEIJ), ISSN: 2231 - 329X (Online), Vol. Editor: Salah Al-Majeed (University of Gloucestershire, UK), AIRCC Publishing Corporation, Vol. 13, № 2, April 2023, pp. 21- 33, DOI:10.5121/cseij.2023.13203, URL: <https://www.cseij.org/papers/v13n2/13223cseij03.pdf>
Preprint in SSRN (Elsevier Inc.): <https://ssrn.com/abstract=4437317>*
3. Ivanova Veronika, Ditchko Batchvarov, Ani Boneva, *A Smart Laparoscopic Instrument with Different Application., International Journal of Bioautomation. ISSN: 1314-2321 (on-line) 1314-1902 (print), 2019, Publisher: Institute of Biophysics and Biomedical Engineering at the Bulgarian Academy of Sciences, (SJR 2019 – 0,24, Q3), ID 723, Vol. 24 Issue 4, DOI: 10.7546/ijba.2020.24.4.000723, pp. 403 - 417, http://biomed.bas.bg/bioautomation/2020/vol_24.4/files/24.4_08.pdf*
4. Ivanova V., D. Batchvarov, A. Boneva, Z. Ilcheva, *A Basic Platform and Electronics Interfaces Board for Family Therapeutics Tools to Surgical Robots, Global Journal of Researches in Engineering: H Robotics & Nano-Tech, Volume 20, Issue 1, Version 1.0, Type: Double Blind Peer Reviewed International Research Journal, Publisher: Global Journals, Online ISSN: 2249-4596 & Print ISSN: 0975-5861, GJRE-H Classification: FOR Code: 280209, DOI : 10.17406/GJRE, 2020, pp. 29-35.
https://globaljournals.org/GJRE_Volume20/3-A-Basic-Platform-and-Electronics.pdf*
5. Alexandrov A., R. Andreev, D. Batchvarov, A. Boneva, S. Ilchev, S. Ivanov, J. Doshev, *Method for modeling and simulation of parallel data integration processes in Wireless Sensor Networks, 13th International Conference International Conference on Flexible Query Answering Systems - FQAS 2019, Amantea, Italy, July 2–5, 2019, Proceedings, Print ISBN: 978-3-030-27628-7, Electronic ISBN: 978-3-030-27629-4, Springer, Cham, 12 September 2019, pp. 291-301, DOI: https://doi.org/10.1007/978-3-030-27629-4_27*
6. Ivanova Veronika, Ani Boneva, Yordan Doshev, Stoyan Ivanov, Plamen Vasilev, *Multifunctional Operating Station Based on Tcl/Tk and its Applications, Proc. of the 6th IEEE International Conference "Big Data, Knowledge and Control Systems Engineering" (BdKCSE'2019), Sofia, Bulgaria, IEEE, 27 February 2020, pp. 1-7, DOI: 10.1109/BdKCSE48644.2019.9010662*

Publications

7. B. Kirov, S. Asenovski, D. Bachvarov, A. Boneva, V. Grushin, K. Georgieva and S. I. Klimov, *Langmuir Probe Measurements Aboard the International Space Station, Geomagnetism and Aeronomy*, 2016, Vol. 56, No. 8, ISSN 0016-7932, 1555-645X (Online) , Pleiades Publishing, Ltd., 2016, pp. 1082-1089, DOI: 10.1134/S0016793216080120, IF 0,556
8. Ivanova Veronika, Plamen Vasilev, Ivilin Stoianov, Rumen Andreev, Ani Boneva, *Design of Multifunctional Operating Station based on Augmented Reality (MOSAR)*, *Journal Cybernetics and Information Technologies*, Print ISSN: 1311-9702, Online ISSN: 1314-4081, Vol. 21, No. 1, Institute of Information and Communication Technologies – BAS, SJR (SCOPUS) 2020: 0,27, Q2, H-index: 17, ID 127-20, DOI: 10.2478/cait-2021-0009, 2021, pp. 119-136
9. D. Batchvarov, A. Boneva, Z. Ilcheva, S. Angelov , V. Ivanova, *Tools for control of mechatronic objects using the wireless network stack uMAC*, *Proceedings for International Conference AUTOMATICS AND INFORMATICS'2017 4-6 October 2017, 2. Session ROBOTICS AND MECHATRONICS*, ISSN 1313-1850, CD: ISSN 1313-1869, JOHN ATANASOFF SOCIETY OF AUTOMATICS AND INFORMATICS, ,Sofia, Bulgaria, 2017, pp. 77 – 80..
10. Bachvarov D., Ivanova V., Ilcheva Z., Boneva A., Baruh N., *Technology for Implementation of Operating Station with TCL-TK Based Structures. Applications*, *International Scientific Journal INDUSTRY 4.0*, ISSN (PRINT) 2543-8582, WEB ISSN 2534-997X, Year III, Vol. 3, ISSUE 1\2018, Publ. Scientific Technical Union of Mechanical Engineering Industry- 4.0, Sofia, Bulgaria, pp. 7-10.
<http://stumejournals.com/journals/i4/2018/1/74>.
11. Ivanova Veronika, Dichko Bachvarov, Ani Boneva, *An Advanced Robot System for Diagnostic and Therapeutics Tasks with Application in Laparoscopic Surgery*, *Journal of Computer Engineering & Information Technology*, Volume 7, Issue 2, ISSN : 2324-9307 (Online), doi: 10.4172/2324-9307.1000198, SciTechnol, 2018, London, United Kingdom, pp. 1-9.
12. Romyana Krasteva, Dichko Bachvarov, Ani Boneva, Veselin Georchev, Simeon Angelov, *Wireless Sensor Network for Temperature and Humidity Measurement*, *The international conference on Bionics/Prosthetics/Biomechanics/Mechanics and Mechatronics/Robotics (ICBBM) 2008 will be held from June 5-6, 2008 in Varna, Bulgaria.*, Proc., ISBN978-9984-32-075-5, pp. 66-70, Bulgaria, Varna, 2008.
13. Romyana Krasteva, Dichko Bachvarov, Ani Boneva ,*Remote Control and Monitoring of a Small Hydro-Power Plant*, , *Problems of Technical Cybernetics and Robotics*. 64, ISSN 0204- 9848, Sofia 2011, p.. 87 – 95.
14. Geortchev Veselin, Ivilin Stoianov, Rumiana Krasteva, Ani Boneva, Ditchko Batchvarov, Konstantin Stanishev, Roman Zahariev and Giorgio Vallortigara, *Digital Communication for Telemetric Multi-Neuron Recordings*, *Academic Open Internet Journal (AOIJ)*, ISSN 1311-4360, Category: IT and Computing, Volume: 16 (20.12.2005), <http://www.acadjournal.com/2005/v16/part6/p3/>
15. Romyana Krasteva, Veselin Georchev, Dichko Batchvarov, Ani Boneva, *A wireless communication system between mobile robots*, *5th International Conference On BIONICS and PROSTHETICS BIOMECHANICS and MECHANICS MECHATRONICS and ROBOTICS (ICBBM 2006)*, Varna, Bulgaria, June 5–6, 2006. cmp. 87-90.
16. D. Trifonov, O. Tzarnoretcki, Ditchko Batchvarov, Ani Boneva, Romyana Krasteva, *A possibility for Investigation of Dissolved Oxygen Quantity in a Laboratory Aeration Module with Computer System*, *J. Cybernetics and Information Technologies*, ISSN 1311 – 9702, Vol. 5, No. 1, Institute of Information Technologies – BAS, 2005, pp. 128-133. http://www.iit.bas.bg/Cit_en/CIT_05_en/CIT_51-05.html

Publications

17. A. Boneva, R. Krasteva, D. Buchvarov, Zl. Ilcheva, I. Stoyanov, J. Doshev. *Hardware and Software Tools for Testing and Tuning of Distributed Control System with using Wireless Communication*. . Conference "Robotics, Automation and Mechatronics'11 (RAM 2011), (October 3-7, 2011, Sofia, Bulgaria), Prof. Marin Drinov Academic Publishing House, Section ICT, pp. i5 - i8. ISSN 1314-4634

18. Georchev Veselin, Batchvarov Ditchko, Krasteva Rumiana, Boneva Ani, Belov Kiril and Angelov Simeon, *A Technology for Electronic Energy Meters Intelligent Accounting*, *Georgian Electronic Scientific Journal (GESJ): Computer Sciences and Telecommunications (Editor-in-Chief Iv.Javakhishvili Tbilisi State University)*, ISSN 1512-1232, № 2 (4), 2004, pp.38-45,
http://gesj.internet-academy.org.ge/gesj_articles/1064.pdf

19. Simeon Angelov, Veselin Georchev, Angel Angelov, Dichko Batchvarov, Ani Boneva, Rumyana Krasteva, Elmira Bachvarova, Kiril Belov, *Distributed system for collection and management of the information using wireless technology*, *Proceedings of the Third IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2005)*, ISBN 0-7803-9446-1 (IEEE Catalog Number: 05EX1192C), Sofia, Bulgaria, September 5-7, IEEE Inc., 2005, pp. 331-336 , DOI: 10.1109/IDAACS.2005.28299720.

20. D. Batchvarov, A. Boneva, Z. Ilcheva, S. Angelov , V. Ivanova, *Tools for control of mechatronic objects using the wireless network stack uMAC*, *Proceedings for International Conference AUTOMATICS AND INFORMATICS'2017 4-6 October 2017, 2. Session ROBOTICS AND MECHATRONICS*, ISSN 1313-1850, CD: ISSN 1313-1869, JOHN ATANASOFF SOCIETY OF AUTOMATICS AND INFORMATICS, ,Sofia, Bulgaria, 2017, pp. 77 – 80.

21. Kirov B., Asenovski S., Bachvarov D., Boneva A. , Grushin V., Georgieva K., Klimov S., *Langmuir Probe Measurements Aboard the International Space Station*, ТРУДЫ XIX ВСЕРОССИЙСКАЯ ЕЖЕГОДНАЯ КОНФЕРЕНЦИЯ ПО ФИЗИКЕ СОЛНЦА: СОЛНЕЧНАЯ И СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА – 2015- , p 205-208, ISSN 0552-5829,
http://www.gao.spb.ru/russian/publ-s/conf_2015/conf_2015.pdf

22. Boian Kirov, S. Asenovski, K. Georgieva, D. Bachvarov, A. Boneva, S. Klimov, V. Grushin "Results from Langmuir Probe Measurements Aboard the International Space Station", *International Conference Solar Variability and its Heliospheric Effects*, Athens, Greece, 2-6 November 2015 (poster). www.space.noa.gr/bbc-sw/programme/presentations/Posters/Kirov.pdf

Projects

Selected Research Scientific Projects

1. 2020-2023, Modeling and Research of Intelligent Educational Systems and Sensor Networks (ISOSeM), BAS; Contract between IICT BAS and National Science Fund - Ministry of Education and Science, Project coordinator: Assoc. Prof. Rumen Andreev, PhD, <http://isosem.bas.bg/>

2. 2018- 2020, Scientific Task 1.2.8: Software tools, systems and models for designing a multi-platform Operator Station, Component 1: Electronic infrastructure for open science and open access to scientific results, The National Scientific Program "Information and Communication Technologies for a Single Digital Market in Science, Education and Security (ICTinSES)", financed by the Ministry of Education and Science, Project Manager by IICT: Assoc. Prof. Rumen Andreev, PhD, December 2018 – November 2019, <http://multiplatform-opstation.free.bg/>

3. 2005 – 2018. Space experiment "OBSTANOVKA " on Russian Segment of ISS .- Project Leader:RAS-ISR,International project- Russia, Bulgaria, Poland, UK, Ukraine, Hungary, <https://obstanovka.free.bg/>

4. 2012-2015, Basic Platform for Monitoring of Industrial Objects. BG161PO003-1.1.06-0041-C0001/07.12.2012 .Team Leader:Omnitel OOD. Project coordinator from IICT- BAS: Assoc. Prof. Zlatolilia Ilcheva, <http://bpmio.free.bg/>

- Projects**
5. 2005-2007, Investigation of the near-Earth plasma aboard the International Space Station - Project Coordinator Solar - Terrestrial Influences Laboratory - BAS; Contract No - 1509/05 between STIL BAS and National Science Fund - Ministry of Education and Science, Project coordinator: Assist Prof. Boian Kirov - STIL – BAS.
 6. 2004- 2006. Joint research project in the frame of bilateral Cooperation between Bulgarian Academy of Sciences (BAS) and National Research Council (Consiglio Nazionale delle Ricerche - CNR, Italy), Project title: Development of telemetry system for single cell recording in the avian hippocampus, The project is developed jointly with Department of Psychology, University of Trieste
Project coordinator from BAS: Assoc. Prof. Veselin Georchev
Project coordinator from University of Trieste: Prof. Giorgio Vallortigara
 7. 2002. *Software Package GasControlNet for Resource Management and Billing in a Distributed Network of Prepaid Smart Card Gasmeters-Co-operation with the:* Central Laboratory of Mechatronics and Instrumentation-Bulgarian Academy of Sciences, AKHNATON CO.-Sofia (Bulgaria) and KALEKALIP Makina ve Kalip Sanayi A.S.- Istanbul (Turkey).
 8. 2002. *A Technology for Electronic Energy Meters Accounting using Distributed Database over Tcp/Ip Network - Co-operation with the Central Laboratory of Mechatronics and Instrumentation-Bulgarian Academy of Sciences, OMNITEL Ltd.- Sofia (Bulgaria) and BASARI ELEKTRONIK A.S.-Ankara (Turkey). Programming language: HTML*
 9. *Modern control system for devices with linear drives - competition National Science Programs - Innovation increasing in SME, funded by National Science Fund, Contract No НИП № МСП-02 -Д01 - H09.*
Project coordinator: Assoc Prof. Dimiter Karastoyanov
 10. *Hardware and Software Modules for implementation in knitting machines - Funded by National Innovation Fund, Contract № ИФ 02-50, 31.05.2006,*
Project coordinator: Assoc. Prof. Dimiter Krastoyanov
 11. 2005, *Distributed computer system for information collecting and information management from analogue and digital sensors, using wireless technology Bluetooth, Funded by National Science Fund, Contract No 1513/2005., Project coordinator: Assoc Prof. Veselin Georchev*

Utility Model Title: **System for analysis and control of the mechanical properties of biological tissues**

Application number: 4347/BG/U/2019/4347-[5]/28.11.2023 / 30.05.2019

Utility model number: 3323/31.10.2019

Applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences

Inventors: Veronika Ivanova, Dichko Buchvarov, Ani Boneva, Rumen Andreev, Nina Dobrinkova

Publications: bulletin 11.1/15.11.2019, p. 6293, and bulletin 12.1/16.12.2019, pp. 6622 – 6631.

URL: <https://bulletin.bpo.bg/2019/binder-2019-11-15.pdf>

URL: <https://bulletin.bpo.bg/2019/binder-2019-12-16.pdf>