

## PERSONAL INFORMATION

## Svetozar Ilchev

 Bulgaria, Sofia

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Sex Male | Nationality Bulgarian

## WORK EXPERIENCE

- 
- since 2021 **Research associate / Associate Professor**  
Institute of Information and Communication Technologies, Bulgarian Academy of Sciences
- Research and development activity
- Business or sector** Information technology
- 2014 - 2020 **Research associate / Chief Assistant**  
Institute of Information and Communication Technologies, Bulgarian Academy of Sciences
- Research and development activity
- Business or sector** Information technology
- 2013 - 2014 **Research associate / Assistant**  
Institute of Information and Communication Technologies, Bulgarian Academy of Sciences
- Research and development activity
- Business or sector** Information technology
- 2010 - 2012 **Research associate / Assistant**  
Karlsruhe Institute of Technology, Germany
- Research, development and teaching activity
- Business or sector** Information technology in engineering
- 2009 **Assistant**  
Centre for Innovation and Entrepreneurship, Karlsruhe Institute of Technology, Germany
- IT consulting of start-up teams & IT support of the systems of the centre
- Business or sector** Information technology
- 2007 **Internship**  
IBM Research and Development Laboratory – Böblingen, Germany
- Research and development activity – business intelligence and data mining
- Business or sector** Information technology
- 2006 **Internship**  
SAP Labs, Sofia, Bulgaria
- Automation of the quality assurance processes
- Business or sector** Information technology
- 2005 **Internship**  
Grammer AG, Trudovetz, Bulgaria
- Creation of SAP documentation & IT support
- Business or sector** Information technology

## EDUCATION AND TRAINING

- 
- 2010 - 2014 **PhD**  
Institute of Information and Communication Technologies, Bulgarian Academy of Sciences

- 2007 - 2009
  - Information technology, image processing, Internet applications
  - Master**
  - Technical University – Karlsruhe (now Karlsruhe Institute of Technology), Germany
- 2003 - 2007
  - Information technology, economics, law
  - Bachelor**
  - Technical University – Sofia
  - Information technology, engineering, economics

PERSONAL SKILLS

Mother tongue(s) Bulgarian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	C2	C2	C2	C2	C2
TestDaF (4xTDN5), DSH Karlsruhe (sehr gut 1,0)					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills Team work, communication with American, European and Asian partners  
 ▪ Work in organizations with strong international presence

Organisational / managerial skills Leading a team of around 20 people  
 ▪ Organisation of teaching activities for 800 students at the Karlsruhe Institute of Technology

Job-related skills Research and development of hardware and software systems, Internet of Things  
 ▪ Research and development of embedded systems and communication technologies at the Institute of Information and Communication Technologies

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Skills in multiple programming languages: C/C++, VB.NET, PHP, JavaScript, HTML, SQL, Perl and good knowledge of the related programming tools and popular libraries  
 ▪ Windows and Linux operating systems, MS Office, Cisco CCNA course  
 ▪ Knowledge in SolidWorks and LaTeX

Other skills ▪ Sports: badminton, swimming, inline skating, table tennis, chess

ADDITIONAL INFORMATION

- Publications
- [1] Ilchev, S., Andreev, R., Ilcheva, Z., Otsetova-Dudin, E., „Software for laser projection of CAD files for the clothing industry“, International Conference on Technics, Technologies and Education (ICTTE) 2020, November, 4-6, 2020, Yambol, Bulgaria. Published in IOP Conference Series: Materials Science and Engineering, Vol. 1031, Art. 012040, 2021, pp. 1-8, IOP Publishing, ISSN: 1757-899X, DOI: 10.1088/1757-899X/1031/1/012040, SJR (Scopus): 0.2.
  - [2] Ilchev, S., Andreev, R., Ilcheva, Z., Otsetova-Dudin, E., "Computer-Aided Laser Projection System for Flexible Manufacturing," in Proc. of the 10th IEEE International Conference on Intelligent Systems (IS'20), Varna, Bulgaria, August 28-30, 2020, pp. 568-573, Electronic ISBN: 978-1-7281-5456-5, Print on Demand(PoD) ISBN: 978-1-7281-5457-2, Print on Demand(PoD) ISSN: 1541-1672, DOI: 10.1109/IS48319.2020.9199938.
  - [3] Ilchev, S., Andreev, R., Ilcheva, Z., "Display of Computer-Generated Vector Data by a Laser Projector", in Proc. of the 21th International Conference on Computer Systems and Technologies (CompSysTech '20), Ruse, Bulgaria, 19-20 June, 2020, ISBN: 978-1-4503-7768-3, pp. 11-18, DOI: 10.1145/3407982.3407990, SJR2019: 0.2.
  - [4] Ilchev, S., Andreev, R., Ilcheva, Z., Otsetova-Dudin, E. "Three-channel laser diode driver for multimedia laser projectors," in International Journal of Circuits, Systems and Signal Processing, North Atlantic University Union NAUN, vol. 14, 2020, pp. 451-459 ISSN: 1998-4464, DOI: 10.46300/9106.2020.14.60, SJR2019: 0.158 (Q4).
  - [5] Alexandrov, A., Andreev, R., Ilchev, S., Batchvarov, D., Boneva, A., Ivanov, S., Doshev, J. "WSN-based prediction model of microclimate in a city urbanized areas based on Extreme Learning and Kalman filter", in International Conference High Performance Computing 2019 – HPC 2019 Conference September 2-6, 2019, Borovets, Bulgaria. Published in "Studies in Computational Intelligence", vol. 902, Springer, 2020, Print ISBN: 978-3-030-55346-3, Online ISBN: 978-3-030-55347-0, ISSN: 1860-949x, E-ISSN:1860-9503, pp. 15-26, DOI: 10.1007/978-3-030-55347-0\_2, SJR (Scopus 2019):0.22, Q4.
  - [6] Alexandrov, A., Andreev, R., Ilchev, S., Batchvarov, D., Boneva, A., Ivanov, S., Doshev, J. "Modeling and simulation of Low Power Wireless Sensor Networks based on Generalized Nets", International Conference High Performance Computing 2019 – HPC 2019 Conference September 2-6, 2019, Borovets, Bulgaria. Published in "Studies in Computational Intelligence", vol. 902, Springer, 2020, Print ISBN: 978-3-030-55346-3, Online ISBN: 978-3-030-55347-0, ISSN: 1860-949x, E-ISSN:1860-9503, pp. 3-14, DOI: 10.1007/978-3-030-55347-0\_1, SJR (Scopus 2019):0.22, Q4.
  - [7] Ilchev, S., Ilcheva, Z. "Thermoelectric Cooling Driver for Laser Projection Systems," in Proc. of the Big Data, Knowledge and Control Systems Engineering conference (BdKCSE'2019), 21-22 Nov. 2019, Sofia, Bulgaria, pp. 1-9, IEEE, DOI: 10.1109/BdKCSE48644.2019.9010606, Electronic ISBN: 978-1-7281-6481-6, Print on Demand(PoD) ISBN: 978-1-7281-6482-3.
  - [8] Ilchev, S., Andreev, R., Ilcheva, Z. "Ultra-Compact Laser Diode Driver for the Control of Positioning Laser Units in Industrial Machinery," in IFAC Papers Online, Edited by Larry Stapleton, Peter Kopacek, Andon Topalov, Vol. 52, Issue 25, 2019, ISSN 2405-8963, pp. 435-440, SJR2018: 0.298 (Q3) and in Proc. of 19th IFAC Conference on Technology, Culture and International Stability (TECIS 2019), 26-28 September 2019, Sozopol, Bulgaria, DOI: <https://doi.org/10.1016/j.ifacol.2019.12.577>.
  - [9] Ilchev, S., Petkov, D., Andreev, R., Ilcheva, Z. "Smart Compact Laser System for Animation Projections," in Cybernetics and Information Technologies, vol. 19, no. 3, pp. 137-153, Sofia, September 2019, Bulgarian Academy of Sciences, Print ISSN: 1311-9702, Online ISSN: 1314-4081, DOI: 10.2478/cait-2019-0030, SJR2018: 0.215 (Q3). URL: [http://www.cit.iit.bas.bg/CIT\\_2019/v-19-3/10341-Vol-19\\_Issue\\_3-09\\_paper.pdf](http://www.cit.iit.bas.bg/CIT_2019/v-19-3/10341-Vol-19_Issue_3-09_paper.pdf)
  - [10] Alexandrov, A., Andreev, R., Batchvarov, D., Boneva, A., Ilchev, L., Ivanov, S., Doshev, J. "Method for modeling and simulation of parallel data integration processes in Wireless Sensor Networks", in 13th International Conference on Flexible Query Answering Systems, July 2-5, 2019, Amantea, Italy, Proceedings: Cuzzocrea A., Greco S., Larsen H., Saccà D., Andreasen T., Christiansen H. (eds) Flexible Query Answering Systems.

- FQAS 2019, Lecture Notes in Computer Science, Vol. 11529. pp. 291-301, Springer, Cham, Print ISBN: 978-3-030-27628-7, Electronic ISBN: 978-3-030-27629-4, DOI: [https://doi.org/10.1007/978-3-030-27629-4\\_27](https://doi.org/10.1007/978-3-030-27629-4_27), SJR2018: 0.283 (Q2).
- [11] Ivanova, V., Batchvarov, D., Ilcheva, Z., Boneva, A., Ilchev, S., Alexandrov, A., Andreev, R. "Experimental studies of the structure of biological tissues through mechanical effects with a smart laparoscopic instrument", in j. MATEC Web of Conferences, eISSN: 2261-236X, Published by: EDP Sciences, Volume 287, No. 07005, pp. 1-7, Published online: 14 August 2019, DOI: <https://doi.org/10.1051/mateconf/201928707005> (SJR2018: 0,169) and Proceedings of the 6th International BAPT Conference "Power Transmissions 2019", Varna, June 19-22, 2019, Vol. III, pp. 364-370, ISBN 978-619-7383-12-6.
- [12] Ilchev, S., Ilcheva, Z. "High-speed Semiconductor Laser Diode Driver with Analog Signal Modulation", in International Conference "Big Data, Knowledge and Control Systems Engineering" (BdKCSE'2018), November 21, 2018, pp. 81-90, Publisher: John Atanasoff Society of Automatics and Informatics, ISSN: 2367-6450.
- [13] Ilchev, S., Andreev, R., Ilcheva, Z. "Heterogeneous IoT Platform for Device Management and Environmental Sensor Data Gathering", in Serdica Journal of Computing, vol. 12, Number 1-2, 2018, pp. 23-45, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 2018, Print ISSN:1312-6555, Online ISSN: 1314-7897, URL: <http://serdica-comp.math.bas.bg/index.php/serdicajcomputing/article/view/322>.
- [14] Andreev, R., Ilchev, S., Chikalanov, A., Petkov, Y. "Conceptual Modeling of IoT Ecosystems: A Business-Oriented Approach", in Serdica Journal of Computing, vol. 12, 1, Number 1-2, 2018, pp. 1-22, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 2018, Print ISSN:1312-6555, Online ISSN: 1314-7897, URL: <http://serdica-comp.math.bas.bg/index.php/serdicajcomputing/article/view/323>.
- [15] Ilchev, S., Andreev, R., Ilcheva, Z. "HybridNET Management and Sensor Data Acquisition System", in IoT 2017: 7th International Conference on the Internet of Things, Linz, Austria, October 22-25, 2017, pp. 32:1 - 32:2, ACM Digital Library, ISBN: 978-1-4503-5318-2, DOI: 10.1145/3131542.3140268, SJR2017: 0.159.
- [16] Ilchev, S., Ilcheva, Z. "Internet-of-Things Communication Protocol for Low-Cost Devices in Heterogeneous Wireless Networks", in 18th International Conference on Computer Systems and Technologies (CompSysTech '17), Ruse, Bulgaria, 23-24 June, 2017, ACM ICPS Volume 1369, pp. 272-279, ISBN: 978-1-4503-5234-5, DOI: 10.1145/3134302.3134329, SJR2017: 0.159.
- [17] Ilchev, V., Ilchev, S. "Simplified Information Neural Cell Model And Its Basic Properties," in Proceedings of the 8th IEEE International Conference on Intelligent Systems, Sofia, Bulgaria, September 4-6, 2016, pp. 81-89, DOI: 10.1109/IS.2016.7737404, Electronic ISBN: 978-1-5090-1354-8, USB ISBN: 978-1-5090-1353-1, Print on Demand (PoD) ISBN: 978-1-5090-1355-5
- [18] Ilchev, S., Ilcheva, Z. "Modular Digital Watermarking and Corresponding Steganalysis of Images on Publicly Available Web Portals," in Studies in Computational Intelligence, Innovative Approaches and Solutions in Advanced Intelligent Systems, Vol. 648, Springer, 2016, pp. 189-199, ISSN:1860-949X, DOI: 10.1007/978-3-319-32207-0\_12, SJR:0.219 (Q3).
- [19] Ilchev, S., Ilcheva, Z. "Modular Data Hiding Methods For Improved Security And Information Exchange On The Internet," Indian Journal of Applied Research, Vol.5, Issue 3, March 2015, Print ISSN: 2249-555X, DOI: 10.15373/2249555X, URL: [http://www.worldwidejournals.com/ijar/file.php?val=March\\_2015\\_1425360113\\_\\_148.pdf](http://www.worldwidejournals.com/ijar/file.php?val=March_2015_1425360113__148.pdf)
- [20] Ilchev, S., Ilcheva, Z. "Modular Digital Watermarking for Image Verification and Secure Data Storage in Web Applications," in Serdica Journal of Computing, Vol. 8, Number 4/2014, pp. 309-326, Online ISSN 1314-7897, Print ISSN 1312-6555, URL: <http://serdica-comp.math.bas.bg/index.php/serdicajcomputing/article/view/234>.
- [21] Mishkovski, I, Basnarkov, L., Kocarev, L., Ilchev, S., Andreev, R. "Big Data Platform for Monitoring Indoor Working Conditions and Outdoor Environment," in International Conference on Big Data, Knowledge and Control Systems Engineering (BdKCSE '2014), Sofia, Bulgaria, 2014 (in press).

- [22] Ilchev, S., Ilcheva, Z. "Correlation-based Steganalysis of Modular Data Hiding Methods," in 15th International Conference on Computer Systems and Technologies (CompSysTech '14), Ruse, Bulgaria, 2014, pp. 108-115, ISBN: 978-1-4503-2753-4, DOI 10.1145/2659532.2659611.
- [23] Ilchev, S. "Modular methods for digital data embedding into images for the improvement of security on Internet-based communication platforms", Institute of Information And Communication Technologies, Bulgarian Academy of Sciences, 2014, vol. 4/2014, ISSN: 1314-6351, URL: <http://www.iict.bas.bg/dissertations>.
- [24] Ilchev, S., Ilcheva, Z. "A New Approach to Data Hiding for Web-based Applications," Prof. Marin Drinov Academic Publishing House, Sofia, Bulgaria, 2014, pp. 150, 1. ed., ISBN 978-954-322-780-8.
- [25] Илчев, С. "Модулни методи за вграждане на цифрова информация в изображения за подобряване сигурността на Интернет-базирани комуникационни платформи," Академично издателство "Проф Марин Дринов", София, 2013, 219 стр., ISBN 978-954-322-715-0.
- [26] Ilchev, S. "Accurate Data Embedding in JPEG Images for Image Authentication," in Comptes rendus de l'Acad'emie bulgare des Sciences, vol. 66, no. 9, pp. 1247-1254, Sep. 2013, ISSN 1310-1331.
- [27] Ilchev, S., Andreev, R. "Steganalysis Evaluation of Modular Data Hiding Methods," in Proceedings of the International Conference, " in Automatics and Informatics'12", Sofia, Bulgaria, 2012, pp. 290-293, CD ISSN 1313-1869.
- [28] Ilchev, S., Ilchev, V. "Modular data hiding for improved web-portal security," in 13th International Conference on Computer Systems and Technologies (CompSysTech '12), Ruse, Bulgaria, 2012, pp. 187-194, ISBN 978-1-4503-1193-9, DOI 10.1145/2383276.2383305. **Best paper award.**
- [29] Ilchev, S., Ilcheva, Z. "Modular Data Hiding as an Alternative of Classic Data Hiding for Web-based Applications," Information Technologies and Control, no. 1/2012, pp. 9-15, Jan. 2012, ISSN 1312-2622.
- [30] Ilchev, S. "Modular Digital Watermarking Method for Image Tampering Detection," in Proceedings of the International Conference "Automatics and Informatics'11", Sofia, Bulgaria, 2011, pp. B221-B224, ISSN 1313-1850, CD ISSN 1313-1869.
- [31] Ilchev, S., Ilcheva, Z. "Protection of Intellectual Property in Web Communities by Modular Digital Watermarking," in IEEE Signature Conference on Computers, Software and Applications (COMPSAC 2011), 35th IEEE Annual Computer Software and Applications Conference Workshops, Munich, Germany, 2011, pp. 374-379, E-ISBN 978-0-7695-4459-5, Print ISBN 978-1-4577-0980-7, DOI 10.1109/COMPSACW.2011.69, INSPEC 12288790.
- [32] Ilchev, V., Ilchev, S. "A classification method based on two separating hyper surfaces," in 12th International Conference on Computer Systems and Technologies (CompSysTech '11), Vienna, Austria, 2011, pp. 149-154, ISBN 978-1-4503-0917-2, DOI 10.1145/2023607.2023633.
- [33] Ilchev, S., Ilcheva, Z. "Modular Data Hiding Approach For Web Based Applications," in Proceedings of the International Conference "Automatics and Informatics'10", Sofia, Bulgaria, 2010, pp. I253-I256, ISSN 1313-1850. **Best presented paper award.**
- [34] Ilchev, S., Ilcheva, Z. "Modular data hiding for digital image authentication," in Proceedings of the IADIS European Conference on Data Mining, Freiburg, Germany, 2010, pp. 122-127, ISBN 978-972-8939-23-6.
- [35] Topalova, I., Tzokev, A., Ilchev, S. "A Preprocessing Method and Classification of 2D Objects Using Neural Networks," in 18th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility and Ethics of Engineers", Zadar, Croatia, 2007, pp. 767-768, ISSN 1726-9679, ISBN 3-901509-58-5.
- [36] Topalova, I., Ilchev, S. "A preprocessing method and rotation invariant 2D object recognition using BPG neural networks," in International Conference "15 Years FDIBA", Sofia, Bulgaria, 2006, pp. 185-190, ISSN 1310-3946.

- Presentations** Ilchev, S. "Microcontrollers for communication in heterogeneous wireless networks", seminar of the Institute of Information and Communication Technologies, Bulgarian Academy of Sciences, Sofia, Bulgaria, January 2016.
- Projects**
- [1] "Conceptual Modeling and Simulation of Internet of Things Ecosystems (KoMEIN)", Bulgarian National Science Fund, Ministry of Education and Science, funding period 2016 – 2020. Organizations participating in the projects: University of Library Studies and Information Technologies, Technical University – Sofia, and Institute of Information and Communication Technologies – Bulgarian Academy of Sciences.
  - [2] National Science Program "Information and Communication Technologies for Unified Digital Market in Science, Education and Security (ICTinSES)", 2018, principal: Ministry of Education and Science, coordinator: Prof. Gennady Agre, PhD.
  - [3] Joint activity between IICT-BAS and the Macedonian Academy of Sciences and Art, 2014-2015, "Research of the communications in heterogeneous wireless networks", coordinator: Assoc. Prof. Rumen Andreev, PhD (financed by BAS).
  - [4] Technology transfer office "Information and Communication Technologies for Energy Efficiency (ICTEE)", financed by the operational program "Development of the Competitiveness of the Bulgarian Economy" 2007-2013, contract № BG161PO003-1.2.02-0001-C0001, beneficiary: IICT-BAS.
- Patents and utility models**
- [1] Svetozar Ilchev, Rumen Andreev, Alexander Alexandrov, Zlatoliliya Ilcheva, „Electronic controller for the management of an industrial laser“, application 5087/20.08.2020, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletin 09.1/2020.10.2/30.10.2020, p. 6300.
  - [2] Svetozar Ilchev, Rumen Andreev, Zlatoliliya Ilcheva, Todor Branzov, „Electronic device for distribution of analog signals in a multimedia laser system“, utility model 3846/23.07.2020, application 5026/25.06.2020, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletins 08.1/17.08.2020, p. 3673 and 09.1/2020.
  - [3] Svetozar Ilchev, Rumen Andreev, Stoyan Ivanov, Zlatoliliya Ilcheva, „Device for electronic control of thermoelectric cooling modules and fans“, utility model 3601/23.03.2020, application 4740/18.02.2020, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletins 04.1/15.04.2020, p. 11723 and 05.1/15.05.2020, pp. 4047- 4059.
  - [4] Svetozar Ilchev, Rumen Andreev, Ivan Gaidarski, Zlatoliliya Ilcheva, "Electronic controller for transmission of sensor data", utility model 3324/31.10.2019, application 4404/23.07.2019, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletins 11.1/15.11.2019, p. 6300, and 12.1/16.12.2019, pp. 6632–6643.
  - [5] Svetozar Ilchev, Rumen Andreev, Ivan Gaidarski, Zlatoliliya Ilcheva, "Device for management of projections during laser animations", utility model 3301/11.10.2019, application 4403/23.07.2019, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletins 10.2/31.10.2019, pp. 4958-4959 and 11.2/29.11.2019, pp. 2576–2586.
  - [6] Svetozar Ilchev, Rumen Andreev, Stoyan Ivanov, Zlatoliliya Ilcheva, "Device for electronic control with analog modulation of a semiconductor laser ", utility model 3009/20.09.2018, application 4043/12.06.2018, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletins 10.1/15.10.2019, pp. 7736 and 11.1/15.11.2018, pp. 7948–7958.

- [7] Valeri Ilchev, Zlatoliliya Ilcheva, Ditchko Batchvarov, Ilko Stoyanov, Svetozar Ilchev, "System for monitoring of the environment", patent 66701/28.06.2018, application 111239/18.06.2012, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletins 07.1/16.07.2018, p. 13 and 08.1/15.08.2018, pp. 28-34.
- [8] Valeri Ilchev, Zlatoliliya Ilcheva, Ditchko Batchvarov, Ilko Stoyanov, Svetozar Ilchev, "Mobile system for remote monitoring of the environment", patent 66700/28.06.2018, application 111238/18.06.2012, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletins 07.1/16.07.2018, p. 13 and 08.1/15.08.2018, pp. 35-40.
- [9] Svetozar Ilchev, Rumen Andreev, Ilko Stoyanov, Zlatoliliya Ilcheva, "Electronic control of a semiconductor laser for portable use", utility model 2909/30.03.2018, application 3916/27.11.2017, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletins 03.2/30.03.2018, p. 602 and 04.2/30.04.2018, pp. 4702–4708.
- [10] Svetozar Ilchev, Rumen Andreev, Teodor Savov, Zlatoliliya Ilcheva, "Waterproof electronic controller for the measurement of temperature and humidity", utility model 2832/30.11.2017, заявка 3845/11.09.2017, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletins 11.2/30.11.2017, p. 56 and bulletin 12.2/29.12.2017, pp. 120-126.
- [11] Svetozar Ilchev, Rumen Andreev, Teodor Savov, Zlatoliliya Ilcheva, "Industrial electronic controller with extensible periphery", utility model 2807/31.10.2017, application 3808/27.07.2017, Patent Office of the Republic of Bulgaria, applicant: Institute of Information and Communication Technologies, Bulgarian Academy of Sciences. Published in bulletin 10.2/31.10.2017, p. 40.

**Honours and awards** Gold medal of the Technical University – Sofia for excellent academic achievements.  
Among the top 10% of the graduates of the Technical University – Karlsruhe.  
DAAD scholarship holder in the period 2007-2009.  
Two awards for best papers presented at scientific conferences.

**Memberships** The John Atanasoff Society of Automatics and Informatics (SAI)