

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Dimiter Georgiev Velev**
Address(es) k. Mladost-1, bl. 87, vh. 9, et. 8, ap. 138, 1797 Sofia, Bulgaria
Telephone(s) +359 2 8195694 **Mobile:** +359 878703297
E-mail dgvelev@unwe.bg
dgvelev@gmail.com
Nationality Bulgarian
Date of birth May 7th 1958
Gender Male

Desired employment / Occupational field

Professor, Ph.D.

Work experience

Dates 1996 - now
Occupation or position held Professor (<http://blogs.unwe.bg/dgvelev/en/>)
Main activities and responsibilities Director of Science Research Center for Disaster Risk Reduction
Name and address of employer Educational and R&D activities in ICT
University of National and World Economy (UNWE), Department of Informatics, UNSS – Studentski grad, 8 December str. #19, 1700 Sofia, Bulgaria (<http://www.unwe.bg/en/>).
Type of business or sector Education, Science, Lectures:
a) Master's degree:
Artificial Intelligence in Cybersecurity - (Programme) Cybersecurity
Artificial Intelligence - (Programme) Business Informatics and Communications
Artificial Intelligence - (Programme) Big Data and Artificial Intelligence
Artificial Intelligence Application in Marketing - (Programme) Digital Marketing Strategies
Big Data with Python - (Programme) Data Analysis by Specialized Software
b) Bachelor's degree:
Informatics
Internet Technologies
Mobile Applications

Type of business or sector | 1995 – 1996
 Research Associate
 R&D activities in ICT in Knowledge Management Control Systems
 Institute of Control and Systems Research, Bulgarian Academy of Sciences
 Acad. G.Bonchev Str., bl. 2, 1113 Sofia, Bulgaria
 R&D, Science

1995 – 1996
 ICT Lecturer
 Higher Military School of Transportation “T. Kableschkov”
 Geo Milev Str. 158, 1574 Sofia, Bulgaria
 Education, Science

1984 – 1990
 Research Associate
 R&D activities in ICT in Engineering
 Central Engineering Institute
 BIC CIME, Iskarsko shosse blvd. 12, 1592 Sofia, Bulgaria
 Engineering Industry

Education and training

Dates | 1990 – 1994
 Title of qualification awarded | Ph.D.
 Principal subjects/occupational skills covered | Computer systems, Complexes, Systems and Networks
 Name and type of organisation providing education and training | Institute of Simulation Problems in Power Engineering (Department of Dynamic Simulation Systems), National Academy of Sciences of Ukraine, Kiev, Ukraine & Kiev Polytechnic Institute (Faculty of Informatics and Computer Science), Kiev, Ukraine

1979 – 1984
 Master’s Degree
 Electro engineer (Electro Measurement Technology)
 Technical University, Sofia, Bulgaria

1982 – 1984
 Translator Specialist
 Translator of Technical Literature in/from English Language
 Technical University, Sofia, Bulgaria

1972 – 1977
 English Language School, Sofia, Bulgaria

Personal skills and competences

Mother tongue(s) | **Bulgarian**

Other language(s)

Self-assessment
 European level (*)

English
Russian

| Understanding | | | | Speaking | | | | Writing | |
|---------------|-----------------|---------|-----------------|--------------------|-----------------|-------------------|-----------------|---------|-----------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user |
| C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user |

(*) [Common European Framework of Reference for Languages](#)

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|-------------------------------------|--|
| Social skills and competences | Team spirit Good ability to adapt to multicultural environments |
| Organisational skills / competences | Good experience in project / team management |
| Technical skills and competences | ICT skills in Education and R&D |
| Computer skills and competences | Python, Java, JavaScript, Internet / Web Technologies, Web Design. |
| Professional interests | Internet Business Application Modelling, Cloud Computing, Big Data, Online Social Networking, Mobile Applications, Web Application Programming, Artificial Intelligence, Information Technology in Disaster Risk Reduction, Cybersecurity, Virtual Reality/XR, Quantum Computing. |
| Other skills and competences | Mountaineering, Swimming |
| Driving licence | Class B |
| Additional information | <p>Participation in recent R&D projects:</p> <ol style="list-style-type: none"> 1. Research on the Application Possibilities of the Metaverse in Business and Education, R&D Project, 19/2023/A (2023- 2024), UNWE (Project Manager). 2. Smart Risk Management for Business from Adverse Events and Natural Disasters. Bulgarian National Science Fund, Grant № KP-06-H55/5, 2021-2024., (Project Manager). 3. Development and Use of Artificial Intelligence in Education and Economy, R&D Project, 1/2021 (2021- 2023), UNWE (Project Manager). 4. Research on the Applicability of Virtual Reality in Business and Education, R&D Project, 22/2017 (2017- 2019), UNWE (Project Manager). 5. Information System for Integrated Risk Assessment from Natural Disasters, Bulgarian National Science Fund, Grant № DFNI-I02/15, 2014-2018., (Project Manager). 6. Domain Committee on Cloud Computing, A project of IFIP – Chinese Institute of Electronics, China (Vice-chair). 7. A Conceptual Model of Cloud Based Information System for Risk Assessment from Natural Disasters, Grant № DNTS/ China 01/6, 2014–2018, a Bulgarian – Chinese R&D Project (UNWE, Sofia, Bulgaria – Shenyang University of Chemical Technology, Shenyang, China), (Bulgarian Project Manager). 8. iPro, http://ipro-project.eu/project , (2013 – 2015), (Bulgarian Project Manager). 9. Methodology for Designing Web-Based Integrated Information System for Risk Assessment of Natural Disasters, R&D Project, № 1-8/2011 (2011- 2014), UNWE (Project Manager). 10. Research on the Capabilities of the Enterprise 2.0 Business Model for Increasing the Competitive Efficiency of the Bulgarian Companies. R&D Project, № 21.03-21/2009, (2009 – 2013), UNWE (Project Manager). 11. Methodology for Business Information Support in the Conditions of Global Economic and Financial Crisis by the Cloud Computing Technology. R&D Project, № 21.03-44/2009, (2009 – 2013), UNWE (Project Manager). 12. Research on the Capabilities and Design of Educational and R&D Laboratory for Web Technologies and Communications. R&D Project, № 21.03-2/2008, (2008 – 2009), UNWE. 13. NATO SfP-982063 Management of Security Related R&D in Support of Defense Industrial Transformation. A NATO Science for Peace and Security Project, (2006 - 2009), UNWE. |

Membership in organizations:

1. International Federation for Information Processing (IFIP) – TC5 (Information Technology Applications) (<http://www.ifip.org/bulletin/bulltcs/memtc05.htm>). Bulgarian National Representative:
 - Chair of IFIP Technical Committee 5 (TC5) – Information Technology Application.
 - Chair of IFIP Domain Committee on Quantum Computing (2022 -).
 - Vice-chair of IFIP TC5 New Activities and Interdisciplinary Research (2016-2023).
 - Secretary of IFIP WG 5.15 - Information Technology in Disaster Risk Reduction (2020-2023).
 - Secretary of IFIP Domain Committee on Information Technology in Disaster Risk Reduction (2016 - 2019).
 - Vice-chair of IFIP Domain Committee on Cloud Computing (2015-2017).
2. European Emergency Number Association (<http://www.eena.org>).
3. International Association of Computer Science and Information Technology (www.iacsit.org). Member No.: 80341413.
4. International Economics Development and Research Center (www.iedrc.org). Member No.: 20080072. (Fellow).
5. Institute of Research Engineers and Doctors (<http://theired.org/>). Senior Member No.: SNM1009791.
6. Chemical, Biological, & Environmental Engineering Society (<http://www.cbees.org/>). Senior member No.: 100956.
7. International Institute of Engineers (<http://iieng.org/>).
8. John Atanasoff Union of Automation and Informatics (<http://www.sai.infotel.bg/saie.html>).
9. Union of Bulgarian Scientists, Department of Informatics (<http://www.usb-bg.org>).

Conference Organizer, Chair, and Editor

1. 1st - 13th International Conference on Application of Information and Communication Technology and Statistics in Economy and Education, (ICAICTSEE 2011 – 2023), University of National and World Economy (UNWE), Sofia, Bulgaria, (<http://icaictsee.unwe.bg/>).
2. 1st – 6th IFIP Conference on Information Technology in Disaster Risk Reduction (ITDRR-2016 – 2021), University of National and World Economy (UNWE), Sofia, Bulgaria, (<http://itdr.unwe.bg/>)

Conference chair & Keynote Speaker

Chair and keynote speaker of conferences in China, France, Italy, Malaysia, South Korea, Sri Lanka, Switzerland, Thailand, United Arab Emirates, Ukraine, United Kingdom.

Program Committee Member in International Conferences

Program committee member in 50+ international conferences in Asia and Europe.

Reviewer

A regular reviewer of many international scientific publications.

Publications -

Author of more than **225** scientific and applied scientific publications in specialized publications of which **45** in *Scopus / Web of Science*.

Found citations - over **800**, of which over **300** in *Scopus / Web of Science*, **h=5** in *Scopus*.

<https://orcid.org/0000-0003-3030-1819>

<https://www.scopus.com/authid/detail.uri?authorId=7801390345>

Selected Publications

1. Velev D., P. Zlateva (2024) Essentials for Developing an Educational Course in Artificial Intelligence in Cybersecurity for Managers. In: 5th International Conference on Machine Learning and Intelligent Systems (MLIS 2023) 17-20 Nov., 2023, Macao, China, *Frontiers in Artificial Intelligence and Applications*, vol.381, pp.96-109, IOS Press, ISSN: 0922-6389, E-ISSN:1879-8314 (Scopus).
2. Zlateva P., L. Steshina, I. Petukhov, D. Velev (2024) A Conceptual Framework for Solving Ethical Issues in Generative Artificial Intelligence. In: 5th International Conference on Machine Learning and Intelligent Systems (MLIS 2023) 17-20 Nov., 2023, Macao, China, *Frontiers in Artificial Intelligence and Applications*, vol.381, pp.110-119, ISSN:0922-6389, E-ISSN:1879-8314 (Scopus).
3. Zlateva P., D. Dimitrov, D. Velev (2023) Achieving Sustainable Development Goals through Artificial Intelligence Based Education-A Concept. In: International Conference on Artificial Intelligence Innovation (ICAI 2023), 22-24 Sept. 2023, Wuhan, China, *Proceedings of the IEEE*.
4. Velev D., D. Dimitrov, P. Zlateva (2023) Challenges of Metaverse in Education Digitalization. In: 2nd International Conference DMI 2023, 1-4 August 2023, Seoul, South Korea, *Digitalization and Management Innovation II (Ed.: Rocky J. Dwyer)*, *Frontiers in Artificial Intelligence and Applications*, Book Series, IOS Press, vol. 376, pp. 43-51, ISBN 978-I-64368-452-9, E-ISBN: 978-I-64368-452-6, ISSN: 0922-6389, E-ISSN: 1879-8314; DOI: 10.3233/FAIA230715 (Scopus).
5. Velev D., Zlateva P. (2023) Issues of Artificial Intelligence Application in Digital Marketing. In: 2nd International Conference DMI 2023, 1-4 August 2023, Seoul, South Korea, *Digitalization and Management Innovation II (Ed.: Rocky J. Dwyer)*, *Frontiers in Artificial Intelligence and Applications*, Book Series, IOS Press, vol. 376, pp. 52-59, ISBN 978-I-64368-452-9, E-ISBN: 978-I-64368-452-6, ISSN: 0922-6389, E-ISSN: 1879-8314; DOI: 10.3233/FAIA230716 (Scopus).
6. D. Dimitrov, I. Petrova, D. Velev, Zlateva P. (2023) Artificial Intelligence Application in Agile Transport Project Management. In: 2nd International Conference DMI 2023, 1-4 August 2023, Seoul, South Korea, *Digitalization and Management Innovation II (Ed.: Rocky J. Dwyer)*, *Frontiers in Artificial Intelligence and Applications*, Book Series, IOS Press, vol. 376, pp. 60-66, ISBN 978-I-64368-452-9, ISSN:0922-6389, E-ISSN:1879-8314; DOI: 10.3233/FAIA230717 (Scopus).
7. Velev D., P. Zlateva (2023) Challenges of Artificial Intelligence Application for Disaster Risk Management. In: 39th International Symposium on Remote Sensing of Environment (ISRSE-39), 24-28 April, Antalya, Turkiye, *Int. Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives* (Eds.: Altan O., Sunar F., Klein D.), vol. 48 (M-1-2023), pp. 387-394, ISSN: 1682-1750, DOI:10.5194/isprs-archives-XLVIII-M-1-2023-387-2023 (Scopus).
8. Zlateva P., M. Galabov, D. Velev (2023) An Approach to Analysis of the Impact of Natural Disasters on the Economic Efficiency and Profitability of Business. In: 39th Int. Symp. on Remote Sensing of Environment (ISRSE-39), 24-28 April 2023, Antalya, Turkiye, *Int. Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences Archives* (Eds.: Altan O., Sunar F., Klein D.), vol. 48 (M-1-2023), pp. 403-406, DOI: 10.5194/isprs-archives-XLVIII-M-1-2023-403-2023 (Scopus).
9. Velev D., P. Zlateva (2023) Challenges of Integrating Advanced Information Technologies with 5G in Disaster Risk Management. *Public Administration and Information Technology*, vol. 40, Book Chapter, Springer, pp. 131-143, ISSN: 2512-1812, DOI: 10.1007/978-3-031-20939-0_8 (Scopus).
10. Velev D., P. Zlateva (2022), Bulgaria and Artificial Intelligence in Cybersecurity, Chapter in book "Multidisciplinary aspects of digital security", Natascha van Duuren, Jan Nienhuis en Victor de Pous (ed.), Royal Dutch Association of ICT and Information Professionals (KNVI), Netherlands, Engels, deLex, pp. 79-84. ISBN: 978-90-8692076-1.
11. Velev D., M. Zahariev (2022) Challenges of Bank Service Digitalization by Artificial Intelligence: The Case of Bulgaria. *Int. Journal of Trade, Economics and Finance*, vol. 13, no. 3, pp. 82-86.
12. Rajagopal S., Pulapparambil Vallikkattil R., Mohamed Ibrahim M., Velev D.G. (2022) Electrode Materials for Supercapacitors in Hybrid Electric Vehicles: Challenges and Current Progress. *Condensed Matter*, vol. 7, issue 1, article number 6, 33 pages, MDPI, ISSN: 2410-3896, DOI: 10.3390/condmat7010006. (Scopus).
13. Velev D. (2021) Artificial intelligence in the curriculum of the economic universities – problems, challenges and solutions. 2020 "China and Central & Eastern Europe" International Scientific Forum, China-CEEC Cooperation and Development, Proceedings of the scientific conf., November 18, 2020, Shanghai–Sofia, Publishing Complex – UNWE, pp. 49-57. ISBN 976-619-232-413-1.
14. Kovalenko O, D. Velev (2021) Big data aggregation in disasters risk management systems. 2020 6th International Conference on Advances in Environment Research, IOP Conf. Series: Earth and Environmental Science, vol. 776, article no. 012007. doi:10.1088/1755-1315/776/1/012007 (Scopus)
15. Murayama Y., H.J. Scholl, D. Velev (2021) Information Technology in Disaster Risk Reduction. *Information Systems Frontiers*, vol. 23, issue 5, pp. 1077-1081, ISSN: 1387-3326, DOI: 10.1007/s10796-021-10204-x (Scopus).

16. Petukhov I., L. Steshina, A. Gorokhov, N. Vlasova, D. Velev, P. Zlateva (2021) Synthesis of a Composite Imitation Model of the Cognitive Structure of the Ergatic System Operator on the Basis of Conceptual Pattern Technology. *IFIP Advances in Information and Communication Technology*, vol. 600, pp. 269-285, Springer, ISSN: 1868-4238, DOI: 10.1007/978-3-030-81701-5_11 (*Scopus*).
17. Velev D., P. Zlateva (2020), Education, Chapter in book "Multidisciplinary Aspects of Artificial Intelligence", Natascha van Duuren and Victor de Pous (ed.), Royal Dutch Association of ICT and Information Professionals (KNVI), Netherlands, pp. 58-65. ISBN: 978-90-9034111-8.
18. Zlateva P., D. Velev, M. Galabov (2020) Research on the Applicability of Virtual Reality for Emergency Evacuation Training in Business Buildings. In: 20th International Multidisciplinary Scientific GeoConference (SGEM 2020), 18-24 August, 2020, Albena, Bulgaria, Research areas: 21. Environmental Economics, vol. 20, no. 5.2, pp. 417-424, (*Scopus*).
19. Zlateva P., L. Steshina, V. Velev, I. Petukhov, D. Velev (2020) Analysis of the Current Status of Scenario-based Disaster Response Training with Extended Reality. In: 20th International Multidisciplinary Scientific GeoConference (SGEM 2020), 8–11 December 2020 - Vienna, Austria, Research area: 19. Air Pollution and Climate Change, vol. 20, no. 4.2, pp. 125-132 (*Scopus*).
20. Velev D., P. Zlateva, L. Steshina, I. Petukhov. (2019) Challenges of Using Drones and Virtual/Augmented Reality for Disaster Risk Management, In: Geoinformation for Disaster Management (Gi4DM 2019), 3–6 September 2019, Prague, Czech Republic; *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, vol. XLII-3/W8, pp. 437–440. (*Scopus*)
21. Velev D., Zlateva P. (2019) Analysis of V-Commerce as the New Online Sales Channel. *International Journal of e-Education, e-Business, e-Management and e-Learning (IJEEEE)*, vol. 9, no. 2, pp. 131-137. ISSN: 2010-3654.
22. Zlateva P., S. Hristozov, D. Velev, (2019) A fuzzy logic approach for drone capability analysis on disaster risk assessment, In: Geoinformation for Disaster Management (Gi4DM 2019), 3–6 September 2019, Prague, Czech Republic; *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, vol. XLII-3/W8, pp. 485–489. (*Scopus*).
23. Velev D., Zlateva P. (2018) Vulnerability Analysis of Electricity Networks from Natural Hazards Using Virtual Reality, *18th International Multidisciplinary Scientific GeoConference (SGEM 2018)*, 3-6 December, 2018, Vienna, Austria, in Proceeding, vol. 18, issue 4.3 (*Energy and Clean Technologies*), pp. 577-583, ISSN:1314-2704. (*Scopus*, *SJR* 2018 = 0.209).
24. Velev D., Zlateva P. (2018) Augmented and Virtual Reality Application in Disaster Preparedness Training for Society Resilience, *18th International Multidisciplinary Scientific GeoConference (SGEM 2018)*, 3-6 Dec., 2018, Vienna, Austria, vol. 18, issue 4.3 (*Energy and Clean Technologies*), pp. 195-201, ISSN:1314-2704 (*Scopus*, *SJR* 2018=0.209).
25. Velev D., Zlateva P., Zong X. (2018) Challenges of 5G Usability in Disaster Management, *Proceedings of the 2018 International Conference on Computing and Artificial Intelligence (ICCAI 2018)*, Chengdu, China, March 12-14, 2018, ACM International Conference Proceeding Series, pp.71-75. ISBN: 978-1-4503-6419-5 (*Scopus*).
26. Velev, D., Zlateva, P. (2018) Information system framework for integrated risk assessment from natural disasters, *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, vol. 42(3W4), pp. 535-541. (*Scopus*)
27. Dimitrov D., P Zlateva, D Velev (2018) A Methodology for Designing an Information System for Road Infrastructure Monitoring and Traffic Management in Disasters, *IOP Conf. Series: Earth and Environmental Science*, vol. 167, paper 012044, ISSN 1755 1307, (*Scopus*)
28. Schwertner K., P. Zlateva, D. Velev, (2018) Digital technologies of industry 4.0 in management of natural disasters, *ACM International Conference Proceeding Series (Int. Conf. on E-commerce, E-Business and E-Government, ICEEG'18)*, pp. 95–99 ISBN: 9781450364904 (*Scopus*).
29. Zlateva P., S. Tzvetkova, D Velev (2018) A Fuzzy Logic Model for Assessment of Socio-Economical Consequences for Household in Case of Power Outage due to Natural Disasters, *IOP Conf. Series: Earth and Environmental Science*, vol. 151, paper 012029, pages 8, ISSN 1755 1307, E- ISSN 1755 1315. (*Scopus*)
30. Zlateva P, D. Velev, (2018) Framework of Cloud Based Learning System for Risk Analysis of the Bulgarian Electricity Network under Natural Hazards, *International Journal of e-Education, e-Business, e-Management and e-Learning (IJEEEE)*, vol. 9, no. 2 (100-107, ISSN: 2010-3654
31. Velev D., P. Zlateva (2017) Virtual Reality Challenges in Education and Training, *International Journal of Learning and Teaching*, vol. 3, no. 1, (33-37).
32. Velev D., P. Zlateva, (2016) An analysis of the relation between natural disasters and Big Data, *International Journal of Data Science*, vol. 1, no. 4, (370-381), ISSN 2053-0811.