



Valentina Terzieva

Nationality: Bulgarian | **Gender** Female | (+359) 28720132126 | valia@isdip.bas.bg | valentina.terzieva@iict.bas.bg |

Bl. 2, Acad. G. Bonchev Str., 1113, Sofia, Bulgaria

● WORK EXPERIENCE

07/2010 – CURRENT

RESEARCH ASSISTANT – INSTITUTE OF INFORMATION AND COMMUNICATION TECHNOLOGIES, BULGARIAN ACADEMY OF SCIENCES

Research and development of applications of information and communication technologies in the field of education.
Sofia, Bulgaria

06/1996 – 06/2010

ASSOCIATED RESEARCH 1ST - 2ND DEGREE, PROGRAMMER – INSTITUTE OF COMPUTER AND COMMUNICATION SYSTEMS, BULGARIAN ACADEMY OF SCIENCES

Scientific research and development of applications in the field of computer and communication systems.
Sofia, Bulgaria

10/1989 – 07/1990

ASSOCIATED RESEARCH – SOFINFORMATIKA

Research and development of software applications for database management systems
Sofia, Bulgaria

● EDUCATION AND TRAINING

1983 – 1988 – Sofia, Bulgaria

ENGINEER OF ELECTRONICS AND AUTOMATICS – Higher Institute of Machine and Electrical Engineering (now Technical University)

Master of Science

1985 – 1988 – Sofia, Bulgaria

SECOND MAJOR IN PEDAGOGY – Faculty of Public Professions, Higher Institute of Machine and Electrical Engineering (now Technica)

Teacher in Technical Subjects

● LANGUAGE SKILLS

Mother tongue(s): BULGARIAN

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | B2 | C1 | C1 | C1 | C1 |
| RUSSIAN | B2 | C1 | B2 | B2 | B1 |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● PUBLICATIONS

Selected Publications

Over 70 publications in National and International conferences and journals for the last 10 years.

- Bontchev, B., **Terzieva, V.**, Paunova-Hubenova, E. *Personalization of Serious Games for Learning*. Interactive Technology and Smart Education, Emerald Publishing Ltd, 2021, DOI:10.1108/ITSE-05-2020-0069, **SJR: 0.45, Q2 (Scopus)**
- Paunova-Hubenova, E., **Terzieva, V.**, Todorova, K. *Application of ICT Resources in Teaching in Bulgarian Schools*. WSEAS Transactions on Environment and Development, 16, 2020, DOI:10.37394/232015.2020.16.51, 505-511. **SJR : 0.12, Q4 (Scopus)**
- Pavlov, Y. P., Andreev, R.D., **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P. *Preferences, Utility, Value Driven Modeling and Decision Support*. Encyclopedia of Organizational Knowledge, Administration, and Technologies, ch. 21, IGI Global, 2020, DOI: 10.4018/978-1-7998-3473-1.ch021, 262-278.
- **Terzieva, V.**, Todorova, K., Pavlov, Y., Kademova-Katzarova, P. *Blending Technology-based Teacher-led and Student-centered Approaches in STEM Education*. CompSysTech' 20, ACM Int. Conf. Proc., 2020, DOI: 10.1145/3407982.3408028, 313-319. **SJR: 0.2 (Scopus)**
- **Terzieva, V.**, Paunova-Hubenova, E., Todorova, K., Kademova-Katzarova, P. *Learning Analytics – Need of Centralized Portal for Access to E-Learning Resources*. BdkCSE'2019, IEEE, 2020, DOI:10.1109/BdkCSE48644.2019.9010600, 1-8. (**Web of Science**)
- **Terzieva, V.**, Paunova-Hubenova, E., Todorova, K., Kademova-Katzarova, P. *Teachers' Preferable Attributes of E-Learning Resources*. DLI 2019, LNICST, 328, Springer, 2020, DOI:10.1007/978-3-030-53294-9_49, 650-659. **SJR: 0.15, Q4 (Scopus)**
- **Terzieva, V.**, Paunova-Hubenova, E., Bontchev, B. *Personalization of Educational Video Games in APOGEE*. ArtsIT 2019, LNICST, 328, Springer, 2020, DOI:10.1007/978-3-030-53294-9_34, 477-487. **SJR: 0.15, Q4 (Scopus)**
- Paunova-Hubenova, E., **Terzieva V.** *Information Technologies in Bulgarian School Education*. INTED2019, DOI: 10.21125/inted.2019.1302, 5226-5235 (**Web of Science**)
- Paunova-Hubenova, E., **Terzieva, V.**, Todorova, K. *The Role of ICT in Teaching Processes in Bulgarian Schools*. 29th EAEEIE, IEEE, 2019, DOI:10.1109/EAEEIE46886.2019.9000463, 1-6 (**Scopus**)
- Savov, T., **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P. *Smart Classroom, Internet of Things and Personalized Teaching*. CBU Int. Conf. Proc., 7, 2019, DOI:10.12955/cbup.v7.1491, 1001-1007. (**Web of Science**)
- **Terzieva, V.**, Paunova-Hubenova, E., Dimitrov, S., Boneva, Y. *ICT in STEM Education in Bulgaria*. In: Auer M., Tsiatsos T. (eds) The Challenges of the Digital Transformation in Education. ICL 2018. AISC, 916, Springer, 2019, DOI: 10.1007/978-3-030-11932-4_74, 801-812. **SJR: 0.17, Q3 (Scopus)**
- **Terzieva, V.**, Pavlov, Y., Todorova, K., Kademova-Katzarova, P. *Study on the Optimal Usage of Active and Passive Technology-Based Teaching Resources*. LNICST, Social-Informatics and Telecommunications Engineering, 265, Springer, 2019, DOI:10.1007/978-3-030-06134-0_43, 395-405. **SJR: 0.15, Q4 (Scopus)**

- **Terzieva, V.**, Todorova, K., Pavlov, Y., Andreev, R., Kademova-Katzarova, P. *Value-Based Management of a Furniture Factory*. Woodema '2019, 281-287. **(Web of Science)**
- **Terzieva, V.** *Game-Based Teaching in History – Case Study in Bulgarian Schools*. EDULEARN 2019, DOI:10.21125/edulearn.2019.1686, 7036-7044. **(Web of Science)**
- **Terzieva, V.** *Personalization in Educational Games – A Case Study*. EDULEARN 2019, DOI:10.21125/edulearn.2019.1694, 7080-7090. **(Web of Science)**
- Paunova-Hubenova, E., **Terzieva, V.**, Dimitrov, S., Boneva, Y. *Integration of Game-Based Teaching in Bulgarian Schools – State of Art*. ECGBL 2018, 516-525. **SJR: 0.154 (Scopus)**
- Savov, T., **Terzieva, V.**, Todorova, K. *Computer Vision and Internet of Things: Attention System in Educational Context*. CompSysTech'18, ACM Int. Conf. Proc. 1641, DOI:10.1145/3274005.3274014, 171-177. **SJR: 0.17 (Scopus)**
- **Terzieva, V.**, Paunova-Hubenova, E., Dimitrov, S., Dobrinkova N. *ICT in Bulgarian Schools – Changes in the Last Decade*. EDULEARN 2018, DOI:10.21125/edulearn.2018.1612, 6801-6810. **(Web of Science)**
- **Terzieva, V.**, Paunova-Hubenova, E., Bontchev, B., Vassileva, D. *Teachers Need Platforms for Construction of Educational Video Games*. EDULEARN2018, DOI:10.21125/edulearn.2018.1922, 8260-8270. **(Web of Science)**
- **Terzieva, V.**, Paunova-Hubenova, E., Bontchev, B. *Identifying the User Needs of Educational Video Games in Bulgarian Schools*. ECGBL 2018, 687-695. **SJR: 0.154 (Scopus)**
- **Terzieva, V.**, Pavlov, Y., Dobrinkova, N., Paunova-Hubenova, E. *A Study on Integration of ICT Resources in STEM Education - Utility Assessment*. ICERI 2018, DOI:10.21125/iceri.2018.1531, 2434-2443. **(Web of Science)**
- **Terzieva, V.** *The Potential of Educational Maze Games for Teaching in Primary Schools*. ICERI 2018, DOI:10.21125/iceri.2018.1542, 2480-2489. **(Web of Science)**
- Paunova-Hubenova, E., **Terzieva, V.**, Boneva, Y., Dimitrov, S. *Trends in the Application of Educational Games in Bulgaria in the Last Five Years*. Proc. of Nat. Conf. on "Education and Research in the Information Society", 2018, 126-135.
- **Terzieva, V.** *Video Games for School Education*. Proc. of Nat. Conf. on "Education and Research in the Information Society", 2018, 84-93.
- Todorova, K., **Terzieva, V.**, Kademova-Katzarova, P. *Educational Games in Schools – Survey and Analysis*. Proc. of Nat. Conf. on "Education and Research in the Information Society", 2018, 116-125.
- Todorova, K., **Terzieva, V.**, Kademova-Katzarova, P. *Trends and Challenges of Big Data: A Review*. BdkCSE'17, 111-117.
- Savov, T., **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P. *Contemporary Technology Support for Education*. CBU Int. Conf. Proc. 5, 2017, DOI:10.12955/cbup.v5.1029, 802-806. **(Web of Science)**
- **Terzieva, V.**, Pavlov, Y., Todorova, K., Kademova-Katzarova, P. *Utility Assessment of ICT-Educational Resources in Bulgarian Schools*. ICERI2017, DOI:10.21125/iceri.2017.1240, 4627-4637. **(Web of Science)**

- **Terzieva, V.**, Pavlov, Y., Todorova, K., Kademova-Katzarova, P. *Utility and Optimal Usage of ICT in Schools*. ACM Int. Conf. Proc. Series, CompSysTech'17, DOI:10.1145/3134302.3134345, 302-309. **SJR: 0.159 (Scopus)**
- **Terzieva, V.**, Savov, T., Todorova, K., Andreev, R., Kademova-Katzarova, P. *Internet of Things in Education: Smart Environment*. ICERI 2017, DOI:10.21125/iceri.2017.1256, 4679-4685. **(Web of Science)**
- **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P. *Technology in Help of Personalised Education*. Nat. Conf. on Education in Information Society, 2017, 60-68.
- **Terzieva, V.**, Paunova, E., Kademova-Katzarova, P. *Educational games in Bulgarian schools*. Automation and Informatics'2017, SAI John Atanasov, ISSN: 1313-1850, 323-326.
- **Terzieva, V.**, Kademova-Katzarova, P., Todorova, K., Andreev, R. *Technology Enhanced Teaching in Bulgarian Schools - Teachers' View*. UNESCO Int. Workshop QED'16: Technology Advanced Quality Learning for ALL, 78-87.
- **Terzieva, V.**, Pavlov, Y., Todorova, K., Andreev, R., Kademova-Katzarova, P. *Utility and Suboptimal ICT-Based Teaching in Bulgarian Schools: Preferences Based Approach*. EDULEARN 2016, DOI:10.21125/edulearn.2016.1250, 1208-1218. **(Web of Science)**
- **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P., Andreev, R. *Teachers' Attitudes towards Technology Rich Education in Bulgaria*. EDULEARN 2016, DOI:10.21125/edulearn.2016.1255, 1232-1241. **(Web of Science)**
- **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P. *IoT in Schools: Smart Classroom, Personalized Environment*. BdkCSE'2016, 87-96.
- **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P. *Personalized Education through Big Data – Opportunities, Approaches*. ICAICTSEE-2015, 527-532.
- **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P. *Teaching through Technology – the Experience of Bulgarian Teachers*. Nat. Conf. "Education and Research in Information Society", 2016, 185-194.
- Dobrinkova, N., **Terzieva, V.**, Todorova, K. *Knowledge and Data Management in "Civil Protection for ALL"*. BdkCSE'15, 149-156.
- Pavlov, Y., **Terzieva, V.**, Kademova-Katzarova, P. *Utility and Optimal Allocation of Financial and Material Resources in a Small Factory: Preferences Based Approach*. ICAICTSEE-2014, 496-503.
- **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P. *Big Data – Opportunities and Challenges for Education*. Proc. of Nat. Conf. on "Education and Research in the Information Society", 2015, 136-145.
- **Terzieva, V.**, Todorova, K., Kademova-Katzarova, P. *Big Data for Personalization – Opportunities, Applications*. BdkCSE'15, ISSN: 2367-6450, 89-99.
- Paunova, E., **Terzieva, V.**, Stoimenova, Y., Kademova-Katzarova, P. *Teachers' Attitude to Educational Games in Bulgarian Schools*. EDULEARN 2014, 6471-6481. **(Web of Science)**
- **Terzieva, V.**, Kademova-Katzarova, P., Todorova, K. *Big Data - an Essential Requisite of Future Education*. BdkCSE'2014, 83-95.
- **Terzieva, V.**, Paunova, E., Kademova-Katzarova, P., Stoimenova, Y. *Implementation of ICT-Based Teaching in Bulgarian Schools*. EDULEARN 2014, 6497-6506. **(Web of Science)**

Selected Publications

- **Terzieva, V.**, Kademova-Katzarova, P. *Guidelines for Creating ICT-based Adaptable Learning Resources*. Proc. of Nat. Conf. on "Education and Research in the Information Society", 2014, 259-268.
- **Terzieva, V.**, Kademova-Katzarova, P. *Advanced ICT based Training Methods*. Proc. of Nat. Conf. on "Education and Research in the Information Society", 2013, 237-247.
- **Terzieva, V.**, Kademova-Katzarova, P., Todorova, K., Andreev, R. *Technology-Enhanced Personalized Education*. ICAICTSEE-2012, 464-473.
- **Terzieva, V.**, Kademova-Katzarova, P. *Web-resources and services for Complementary Education of Children with Special Educational Needs*. Proc. of Nat. Conf. on "Education and Research in the Information Society", 2012, 273-282.
- **Terzieva, V.**, Kademova-Katzarova, P., Andreev, R. *A Multi-agent Approach to Development of E-Learning Facilities*. AISC - Software, Services & Semantic Technologies, 101, Springer Nature, 2011, DOI: 10.1007/978-3-642-23163-6_34, 219-220. **SJR: 0.146, Q3 (Scopus)**
- **Terzieva, V.**, Lyubenova, V., Vatov S. *Web-Based Services in Help of Children with Learning Difficulties*. Proc. of Nat. Conf. on "Education and Research in the Information Society", 2011, 249-258.
- Ivanova, T., **Terzieva V.** *Personal Learning Environments (PLE) - Learning Systems and Environments for Developing Personalized E-Learning*. Proc. of Nat. Conf. on "Education and Research in the Information Society", 2011, 229-238.
- Kademova-Katzarova, P., Andreev, R., **Terzieva, V.** *An Adaptable E-Learning System for Pupils with Specific Learning Difficulties*. CEUR Workshop Proc., 646, 4, 2010, 31-36. **SJR: 0.167, (Scopus)**
- Ivanova, T., Andreev, R., **Terzieva, V.** *Integration of Ontology with Development of Personalized E-Learning Facilities for Dyslexics*. LNCS - AIMS 2010, LNAI 6304, Springer, 2010, DOI:10.1007/978-3-642-15431-7_29, 265-266. **SJR: 0.322 Q2 (Scopus)**
- Ivanova, T., **Terzieva V.** *Ontology Mapping Tools, Methods and Approaches – Analytical Survey*. Int. Conf. Software, Services & Semantic Technologies S3T 2010, 2010, 137-141.
- Ivanova, T., **Terzieva, V.**, Andreev, R. *Ontology-based Recommendation System for Personalized Education of Dyslexics to Read*. Int. Conf. Software, Services & Semantic Technologies S3T, 2010, 68-72.
- Andreev, R., **Terzieva, V.**, Kademova-Katzarova, P. *An Approach to Development of Personalized E-learning Environment for Dyslexic Pupils' Acquisition of Reading Competence*. ACM Int. Conf. Proc. 433- CompSysTech 2009, DOI:10.1145/1731740.1731829, IV.13-1-IV.13-6. **SJR: 0.274 (Scopus)**

● NETWORKS AND MEMBERSHIPS

Memberships

Member of Bulgarian Union of Automation and Informatics
Member of European Alliance for Innovation

● PROJECTS

National and International Projects

ISOSeM - Modeling and Research of Intelligent Educational Systems and Sensor Networks, Competition for financial support for basic research projects– 2020, National Science Fund, KP-06-H47/4, 2020-2023

ICT in SES - Information and Communication Technologies for Unified Digital Market in Science, Education and Security, National Science Program, Ministry of Education and Science, Д01-205/23.11.2018, 2018-2021

APOGEE - smArt adaPtive videO GamEs for Education, Competition for financial support for basic research projects– 2017, National Science Fund, DN12/7/2017, 2017-2021

Analysis of data on the integration of ICT resources in Bulgarian schools, Competition for funding research of young scientists, National Science Fund - M02 / 1/2016, 2017-2019

Innovative initiatives for cooperation in the cross-border region, CB006.1.31.070, 2017-2018

CP4ALL - Civil Protection for All, ECHO/SUB/2014/695754, 2015-2017

LANDSLIDE - Landslide Risk Assessment Model for Disaster Prevention and Mitigation, ECHO/SUB/2014/693902, 2015-2016 г.

SMART WATER - Simple Management of Risks Trough a Web Accessible Tool for EU Regions, ECHO/SUB/2012/638449, 2013-2015

Scientific research for development of software tools for planning inventories based on estimates of demand as a function of the utility built in relation to historical data and expert assessment, with subsequent extrapolation of results, BG161PO003-1.1.06-0086-C0001, MEET, OP "Development of the Competitiveness of the Bulgarian Economy" 2012-2014.

● **ORGANISATIONAL SKILLS**

Organisational skills

- Good team leading skills gained as supervisor of students in project "Students Practices" funded under Operational Programme "Human Resources Development"
- Good organizational skills gained as assistant manager of project funded under the Operational Program "Development of the Competitiveness of the Bulgarian Economy"

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

Easy-going person

Team working obtained during several projects