

Europass Curriculum Vitae



Personal information

First name / Surname	Rumen Andreev
Telephone	(+359 2) 872 0132 int. 127
Fax	(+359 2) 872 3905
E-mail	rumen@isdip.bas.bg
Nationality	Bulgarian

Work experience

Dates	1994 -
Occupation or position held	Associate Professor
Main activities and responsibilities	Head of Department of Communication Systems and Services (from 2010)
Name and address of employer	Institute of Information and Communication Technologies – Bulgarian Academy of Sciences (former Institute of Computer and Communication Systems - Bulgarian Academy of Sciences)
Type of business or sector	Research in the field of personalized computer-enhanced learning and human-computer interactions
Dates	1988 - 1992
Occupation or position held	Research fellow
Main activities and responsibilities	Head of group "Computer Aided Design"
Name and address of employer	Central Laboratory on Automation and Scientific Instrumentation, Bulgarian Academy of Sciences
Type of business or sector	Research and development in the field of Computer Graphics and Computer Aided Design
Dates	1980 -1988
Occupation or position held	Engineer, Research fellow
Main activities and responsibilities	Software development
Name and address of employer	Central Institute for Computer Technique and Technology, Sofia, Bulgaria
Type of business or sector	Programmer, development of graphics systems and CAD systems

Education and training

Dates	1983 - 1987
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Computer Aided Design in Machinery Construction
Name and type of organisation providing education and training	Higher Institute of Machine and Electrical Engineering (Technical University), Sofia
Dates	1975 -1980
Title of qualification awarded	Engineer
Principal subjects/occupational skills covered	Automation

Name and type of organisation providing education and training
Level in national or international classification

Higher Institute of Machine and Electrical Engineering (Technical University), Sofia

MSc

Personal skills and competences

Mother tongue

Bulgarian Language

Self-assessment

European level ()*

Russian Language

English Language

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B	Independent user	C1	Proficient user	B	Independent user	A	Basic user	A	Basic user
B	Independent user	C1	Proficient user	B	Independent user	B	Independent user	C1	Proficient user

Publications

Principal Publications

Monographs

1. **Rumen D. Andreev**. Graphics Systems: Architecture and Realization. North Holland/ Elsevier, Amsterdam, 1993., 420 pages

Papers in International journals:

1. Ivanova, T., **R. Andreev**, V. Terzieva, *Integration of Ontology with Development of Personalized E-Learning Facilities for Dyslexics*. LNAI v. 6304, pp. 265--266. Springer, 2010, pp. 265-266
2. Terzieva, V. Pavlov Y., **Andreev R.** e-Learning Usability: a Learner-Adapted Approach Based on the Evaluation of Learner's Preferences. *Communication and Cognition*, v 40, no 1/2, 2007, pp. 77-94
3. **R.D. Andreev**. A Linguistic Approach to User Interface Design. *Interacting with Computers*, vol.13, no.5 (May), 2001, pp. 581-599, Elsevier
4. **R.D. Andreev** and E. Sofianska. New Algorithm for Two - Dimensional Line Clipping. *Computers and Graphics*, vol. 15, no. 4, 1991, pp. 519-526
5. **R.D. Andreev**. Algorithm for Clipping Arbitrary Polygons. *Computer Graphics Forum*, vol. 8, no. 3, 1989, pp. 183-191

Papers in Bulgarian journals:

1. V. Terzieva, P. Kademova-Katzarova, **R. Andreev**, System for effective e-learning of pupils with learning difficulties. *Proceedings of Institute of Computer and Communication Systems*, vol. 3, n. 33, 2009, pp. 43-52
2. **R. Andreev**, K. Dimitrov, Selection of communication model of information-reservation system for tourism "Virtual Touroperator ". *Proceedings of Institute of Computer and Communication Systems*, vol. 1, n. 1, 2007, стр. 192-200
3. **R. Andreev**, User Interface. Basic principles and logical models. *Automation, Computers, Automatic Systems*, vol. 7, n. 3/4, 1991.
4. **R. Andreev**, Bidirection line rastering *Automation, Computers, Automatic Systems*, vol. 5, n. 11, 1989, pp. 20-24.
5. **R.D. Andreev**, V.I.Furnadjiev, Realization of logical input device for selection of graphic object. *Automation, Computers, Automatic Systems*, vol. 5, n. 6, 1989, pp. 12-16

International Conferences:

1. Kademova-Katzarova P., **Andreev R.**, V. Terzieva, *An Adaptable E-Learning System for Pupils with Specific Learning Difficulties*, Proceedings of 55th International Scientific Colloquium (IWK), Technische Universität Ilmenau, 13–17 September, 2010, Germany,
2. **Andreev R.**, V. Terzieva, P. Kademova-Katzarova, *An Approach to Development of Personalized E-learning Environment for Dyslexic Pupils' Acquisition of Reading Competence*. In: Rachev, B., Smrikarov, A. (eds.) *CompSysTech 2009*. ACM International Conference Proceeding Series, vol. 433. ACM, New York (2009); Proceedings of the International Conference on Computer Systems and Technologies CompSysTech'09, 18–19 June, Ruse, Bulgaria, 2009, pp. IV.13-1–IV.13-6
3. **Andreev, R.**, A Model of Self-Organizing Collaboration. Proceedings of IFIP WCC 2008 Conference on Biologically Inspired Collaborative Computing, Book Series in Computer Science: IFIP Advances in Information and Communication Technology, Springer, 2008, pp. 223-231.

- Publications

4. Fleischer A., **Andreev R.**, Y. Pavlov, V. Terzieva, *An Approach to Personalized Learning: A Technique of Estimation of Learner's Preferences*. Proceedings of 52nd International Scientific Colloquium (IWK), Technische Universität Ilmenau, Germany, 10–13 September, 2007, Vol. II, pp. 485–490.
5. **Andreev, R.D.**, Troyanova, N.V. E-learning Design: An Integrated Agent-Grid Service Architecture. Proceedings of IEEE JVA International Symposium on Modern Computing, IEEE Computer Society, Los Alamos California USA, 2006, pp. 208-213
6. Terzieva V., K. Todorova, **R. Andreev**, *An Approach to Computer-Supported Cooperative Work of Teachers*, Proceedings of the IV International Scientific Conference Computer Science'08, Kavala, Greece, 18–19 September, 2008, pp. 908–913, 2008
7. **Andreev R.**, V. Terzieva, N. Troyanova, *An Intelligent E-Learning Environment Supported by a Communication Agent*, Proceedings of 20th International Conference SAER-2006, St. St. Constantine and Elena, Bulgaria, 21–24 September 2006, pp. 248–253.
8. Terzieva V., Y. Pavlov, **R. Andreev**, *E-Learning Usability: An Mathematical Approach to the Estimation of Learners*, Proceedings of the International Conference on Computer Systems and Technologies CompSysTech'06, Veliko Tarnovo, Bulgaria, 15–16 June, 2006, pp. IV.6-1 – IV.6-6,
9. **R.D. Andreev** and K.M.Benevski. An Object-Oriented Sandwich Model for User Interface Design. Proceedings of the IASTED Conference on "Software Engineering", October 28-31, 1998. Las Vegas, Nevada, USA, pp. 107-110 (ISBN: 0-88986-235-4), ACTA Press.
10. R.D. Andreev, I.D. Madjarov, V.T. Vassilev. An Approach to 2D Graphics Terminal Emulation. Proceedings of Eurographics International Conference on Computer Aided Design and Computer Graphics, August 10-12, 1989, Beijing, China, Pergamon Press
11. I.K.Georgiev, **R.D. Andreev**, S.H. Blagoev. Realization of GKS Workstation. *K. Boyanov, R. Angelinov (eds) Network Information Systems*, 1989, pp. 329-335, North Holland, Amsterdam (Proceedings of IFIP TC6/TC8 Open Symposium on Network Information Processing Systems, 9-13 May, 1989, Sofia, Bulgaria).

Bulgarian Conferences:

1. Terzieva V., P. Kademova-Katzarova, **R. Andreev**, *E-Learning in Support of Learning Difficulties*, Proceedings of International Conference Automatics and Informatics'10, 3–7 October, Sofia, Bulgaria, 2010, pp. I-323 – I-326
2. Terzieva, V., N. Troyanova, **R. Andreev**. Collaboration in E-Learning Systems. Proceedings of International Conference on Automatics and Informatics'09, 29.09 – 4.10. 2009, Sofia Bulgaria, pp. I-169 – I-172.
3. Troyanova, N., **Andreev, R.** A Framework for evaluation of an e-learning environment. Proceedings of International Conference "Automatics and Informatics'07", 3-6 October, Sofia, Bulgaria, 2007, pp. VIII-1 – VIII-4 (vol.1).
4. Pavlov, Y., **Andreev, R.**, Terzieva, V. Preferences Function Modelling and Stochastic Approximation. Application to User Adaptive Computer Systems and Control Theory. Proceedings of International Conference "Automatics and Informatics'06, 3-6 October 2006, Sofia Bulgaria, pp. 233-236
5. R.P. Bankova and **R.D. Andreev**. An Approach to Hypertext Design. Proceedings of the 10th International Conference "Systems for Automation of Engineering and Research", September 27-29, 1996, Varna, Bulgaria
6. **R. Andreev**, S. Blagoev. Clipping of graphics elements in GKS graphics system. Proceedings of international conference "Technical and Software tools for ЕС ЕИМ и СМ ЕИМ and their application in national economy", 30.09-1.10.1986, Plovdiv, Bulgaria
7. **R. D. Andreev**,. Organization of graphics segments in GKS graphics workstation. Proceedings of XXIII Scientific Session "Radio day' 86", 7-8 May, 1986., Sofia
8. **R. Andreev**, S. Blagoev, Software for GKS graphics workstation. Proceedings of XXII Scientific Session "Radio day' 85", 7-8 May, 1985., Sofia