CURRICULUM VITAE

Peter Brusilovsky

Home: 5808 Raleigh St. Pittsburgh, PA 15217

Office: Carnegie Technology Education
Carnegie Mellon University
4615 Forbes Ave.
Pittsburgh, PA 15213 USA
(412) 268-3537

FAX: (412) 268-5576
E-mail: plb@cs.cmu.edu
WWW: http://www.cs.cmu.edu/~plb

I Personal Data

Date and Place of Birth: August 17, 1961; Moscow, Russia
Current Status: U.S. Permanent Resident

II Research Interests

Fields of research and expertise

Human-Computer Interaction, Information Systems, Web-based Education, Computers in Education, Artificial Intelligence

Areas of research interests

Adaptive hypertext and hypermedia, adaptive Web-based educational applications, adaptive interfaces, intelligent tutoring systems and shells, student and user modeling, distance learning, cognitive ergonomics, computer-supported teaching of programming, psychology of programming

III Education

1983-1987 **Moscow State University**, Moscow, Russia
Graduate School, Department of Applied Mathematics and Cybernetics
Ph.D. in **Computer Science,** October 1987
Thesis: "The design and study of software environments to support the process of teaching programming"
Was a Teaching Assistant and a Teacher for Introductory Programming courses.

1978-1983 **Moscow State University**, Moscow, Russia
Department of Applied Mathematics and Cybernetics
BS and MS in **Applied Mathematics**. Final grade point average 5.0 out of 5.0 (A+). "Excellence" Diploma (Summa Cum Laude).
Thesis: "On-line manuals and on-line help in software systems"

IV Experience

1. Full-time affiliations

07/98-present **Director of Computer-Managed Instruction, Carnegie Technology Education,** Pittsburgh, PA
Carnegie Technology Education (CTE) is a whole owned subsidiary of Carnegie Mellon University. The mission of CTE is to deliver a sequence of ten Web-based courses leading to a certificate in software development to students outside of CMU. The courses are developed by CTE with the help of Carnegie Mellon Computer Science Faculty. The major responsibility of a Director of Computer-Managed Instruction is the Web-based technology used by CTE for the development and delivery of the courses. I have leaded the efforts on improving current course delivery system and picking up a more powerful system. To improve the consistency of CTE courses, I have implemented components of a concept-based courseware management approach that I have developed in my previous research. I have been also doing a comprehensive study of existing Web-based courseware systems and Virtual Universities. As one of the first employees of Carnegie Technology Education I have been also involved in all major activities of the company. In particular, I have participated in the development, analysis, and evaluation of several CTE courses.

04/96-06/98 **Visiting Research Scientist, School of Computer Science, Carnegie Mellon University,** Pittsburgh, PA
Affiliated with **Human-Computer Research Institute**
Principal investigator for a project funded by McDonnell Foundation. The research goal of the project is "Creating more versatile intelligent learning environments on the basis of cognitive analysis of knowledge being learned." The practical goal is developing knowledge-based on-line course materials on World Wide Web for several courses being taught at CMU. In this project we use our system InterBook (a shell for developing intelligent courses on WWW). Principal investigator for a project "A Comparative Study of Web-based Educational Systems".

10/94-03/96 **Alexander von Humboldt Visiting Fellow** (Recipient of Alexander von Humboldt Fellowship)**, Cognition and Communication Division, Department of Psychology, University of Trier, Germany**
Principal investigator for ELM-ART Project. The research goal of the project was "Creating an Integrated Knowledge-Based Programming Environment." The practical result of the project is the system ELM-ART, an intelligent environment for learning LISP and the first intelligent tutoring system on the World Wide Web.

04/90-09/94 **Senior Research Scientist**, **International Center for Scientific and Technical Information (ICSTI),** Moscow, Russia
Principal investigator for KOALA AN project funded by the Russian Ministry of Defense. The goal of this project was to build a shell (an authoring complex) for developing "more intelligent" tutoring systems.
Principal investigator and manager for several small projects related with tutoring systems, networking, and on-line access to ICSTI databases.

12/86-03/90 **All-Union Scientific Technical Information Center,** Moscow, Russia
Senior Research Scientist (11/87-03/90)
Junior Research Scientist (12/86-11/87)

Principal investigator, project manager, and chief programmer for ORIONT project funded by State Scientific and Technical Committee of the USSR. The result of ORIONT project was the system for State Registration of unpublished scientific and technical documents: Thesis, Reports, etc. This UNIX-based system was completed in 1990 and is still in use.

2. Most important part time and short term affiliations:

09/98-present **Adjunct Research Scientist, Human-Computer Research Institute, School of Computer Science, Carnegie Mellon University,** Pittsburgh, PA
As an Adjunct Research Scientist, I am able to continue joint research work with other HCII faculty, involve CMU HCII master students into research activities at Carnegie Technology Education, and participate HCII faculty meetings.

11/87-09/94 **Adjunct Professor, Moscow State University, Department of Applied Mathematics and Cybernetics**, Moscow, Russia
The duty of an Adjunct Professor is to lead a student research seminar, to supervise BS, MS, and Ph.D. students and to teach special courses. For all these years I was co-leading seminar "Dialog and Tutoring Systems" (together with Dr. Vladimir Baula, about 20 students per year). I was a supervisor of many graduate students including four doctoral level students. I was teaching a course "Intelligent Tutoring Systems" for two consecutive years.

10/93-03/95 **Senior Research Scientist (part time), Russian Academy of Science Research Institute for System Research,** Moscow, Russia
I was a Deputy Head of Educational Informatics Department and a Principal Investigator for HyperKuMir project. The goal of the project was development of on-line adaptive hypermedia documentation for KuMir system. KuMir was one of the major introductory programming environments used in Russian high schools for teaching a course "Informatics and Computer Science" course.

10/93-11/93 **Visiting Assistant Professor, Tokyo Denki University, Tokyo, Japan**. The goal of this short-term position was to exchange the experience in developing intelligent tutoring systems for programming with the group directed by Professor Haruki Ueno.

05/93-08/93 **Visiting Researcher** (postdoctoral level), **School of Cognitive and Computing Sciences, Sussex University, UK** (funded by the Royal Society Ex-Quota Fellowship). The goal of my work in Sussex with Professor Benedict du Boulay was to investigate existing intelligent tutoring systems for programming and to analyze various kinds of domain knowledge required for teaching programming

1986-1991 **Associate Professor (part time)** (1988-1991) and **Senior Lecturer (part time)** (1986-1988) Department of Computer Science, Automobile Industry Institute of Graduate Education, Moscow. This department was famous in Russia as a co-developer of "Russian UNIX" OS DEMOS (together with Kurchatov Institute of Atomic Energy) and the only Russian provider of graduate (certificate) education in UNIX and C programming in 1984-1992. My duty was teaching different graduate level courses related with UNIX and C programming, supervising student course works, as well as performing regular faculty activities (department meetings, etc.)

3. Teaching

1998-1999 **Software Development Courses.** Development, analysis, and testing of several Web-based courses of the Software Development curriculum of Carnegie Technology Education

1998 **Adaptive hypermedia and Web-based education.** A mini-course (10 lecture hours). University of Carlos III, Madrid, Spain.

1998 **Special Topics in Web Courseware.** A regular course at Carnegie Mellon University. Spring Semester. (Together with Prof. Daniel Rehak).

1994-1998 **Student Modeling, Adaptive Hypermedia.** 3-6 hour tutorials presented at several international conferences.

1992-1994 **Intelligent Tutoring Systems.** A regular undergraduate / graduate course taught once a year. Department of Applied Mathematics and Cybernetics, Moscow State University

1987-1991 Various UNIX-related courses: **Programming in C, Introduction to UNIX systems, UNIX Shells, UNIX System Programming, etc.** Automobile Industry Institute of Graduate Education (Department of Computer Science)

1983-1985 **Introduction to Programming (with Pascal).** Moscow State University (Department of Applied Mathematics and Cybernetics)

4. Consulting

Andersen Consulting Education Center, St. Charles, IL

Antech Systems, Inc., Virginia Beach, VA

Carnegie Group, Inc., Pittsburgh, PA

Hewlett-Packard Moscow Educational Center, Moscow, Russia

V Academic Awards and Honors

1996 James S. McDonnell Fellowship (USA)

1995 Invited Speaker, 5th World Conference on Artificial Intelligence in Education (Washington, DC)

1995 Window On Science (WOS) Invited Speaker, U.S. Air Force Office of Scientific Research (Brooks Air Force Base, TX)

1994 Alexander von Humboldt Fellow (Germany)

1993 The Royal Society Ex-Quota Fellow (UK)

1992 Invited Speaker, Third Soviet Conference on Artificial Intelligence

1983 Graduated with "Excellence" Diploma (Summa Cum Laude) from Moscow State University

1978 Graduated with Gold Medal (Russian Governmental Award) from High School #201, Moscow

VI Grants and Fellowiships

1997-1998 "Adaptive Electronic Textbooks for World Wide Web", Collaborative research, National Science Foundation, Co-PI ($33K, 2 years)

1997	"A Comparative Study of Web-based Educational Systems", Office of President, Carnegie Mellon University, PI ($35K, 10 months)
1996-1998	James S. McDonnell Fellowship, James S. McDonnell Foundation, USA ($59K, 2 years)
1994-1996	Alexander von Humboldt Fellowship, Alexander von Humboldt-Stiftung, Germany (2 years)
1993	Ex-Quota Fellowship, The Royal Society, UK.
1991-1995	"Authoring tools for developing expert tutoring systems" (codename KOALA AN). Major open grant, Ministry of Defense, USSR/Russia, Co-PI (5 years)

VII Professional Activities

Affiliations

Association for Computing Machinery,

- Special Interest Group on Computer Human Interaction
- Special Interest Group on Computer Science Education
- Special Interest Group on Hypertext and Hypermedia

International Artificial Intelligence in Education Society (Executive Committee Member)

User Modeling, Inc. ("User Modeling Researcher")

European Association for Cognitive Ergonomics

Psychology of Programming Interest Group

Editorial activities

Guest editor: Special issue of *The New Review of Hypermedia and Multimedia* on Adaptive Hypermedia (Summer 1999)

Guest editor: Special issue of *User Modeling and User-Adapted Interaction* on Adaptive Hypermedia (July 1996)

User Modeling and User-Adapted Interaction, Kluwer Academic Publishers (Editorial Board)

The Electronic Transactions on Artificial Intelligence, European Coordinating Committee for Artificial Intelligence (Editorial Committee, Intelligent User Interfaces)

The Journal of Universal Computer Science, Springer-Verlag (Board of Editors)

Computers in Human Behavior, Pergamon Press (Consulting Board)

International Journal on Artificial Intelligence in Education, International Artificial Intelligence in Education Society (Board of Specialist Reviewers)

Tecnologie Didattiche, ITD CNR, Italy (Comitato Scientifico)

Program Committees:

2000 The Fifth International Conference on Intelligent Tutoring Systems, ITS'2000 (Canada)

2000 World Conference on the WWW and Internet, WebNet'2000 (USA),

2000 World Conference on Educational Multimedia, Hypermedia, and Telecommunications, ED-MEDIA'2000 (Canada)

2000 Fourth Joint Conference on Knowledge-Based Software Engineering, JCKBSE’2000 (Czech Republic)

2000 International ICSC Symposium on Interactive and Collaborative Computing, ICC’200 (Australia)

1999 The 8th World Wide Web conference (Canada)

1999 The 7th International Conference on User Modeling, UM’99 (Canada)

1999 Workshop on Customized Information Delivery at ACM SIGIR'99 (USA)

1999 Workshop on Web Usage Analysis and User Profiling at ACM KDD'99 (USA)

1999 The 4rd World Conference of the WWW, Internet, and Intranet, WebNet'99 (USA),

1999 7th International Conference on Computers in Education, ICCE'99 (Japan)

1999 9th International PEG Conference, PEG'99 (UK)

1999 World Conference on Educational Multimedia and Hypermedia, ED-MEDIA'99 (USA)

1998 The Fourth International Conference on Intelligent Tutoring Systems, ITS'98 (USA)

1998 The 3rd World Conference of the WWW, Internet, and Intranet, WebNet'98 (USA),

1998 Workshop "Current Trends and Applications of Artificial Intelligence in Education" at the Fourth World Congress on Expert Systems (Mexico)

1998 World Conference on Educational Multimedia and Hypermedia, ED-MEDIA'98 (Germany)

1998 New Information and Communication Technologies Applied to Education, NTICF'98 (France)

1997 Computer Supported Collaborative Learning, CSCL'97 (Canada)

1997 The 2nd World Conference of the WWW, Internet, and Intranet, WebNet'97 (Canada)

1997 World Conference on Educational Multimedia and Hypermedia, ED-MEDIA'97 (Canada)

1997 8th International PEG Conference, PEG'97 (Bulgaria)

1996 European Conference on Artificial Intelligence in Education, EuroAIED'96 (Portugal)

1996 World Conference of the Web Society, WebNet'96 (USA)

1996 Third International Conference on Intelligent Tutoring Systems, ITS'96 (Canada)

1996 7th International Conference on Artificial Intelligence: Methodology, Systems, Applications, AIMSA'96 (Bulgaria)

1996 World Conference on Educational Multimedia and Hypermedia, ED-MEDIA'96 (USA)

1996 International Conferences of Computer Assisted Learning in Science and Engineering, CALISCE'96 (Spain),

1995 International Conference on Computers in Education, ICCE'95 (Singapore)

1995 World Conference on Educational Multimedia and Hypermedia, ED-MEDIA'95 (Austria)

1994 4-th International Conference on User Modeling (USA)

1994 World Conference on Educational Multimedia and Hypermedia, ED-MEDIA'94 (Canada)

1994 International East-West Conference on Computer Technology in Education (Crimea, Ukraine)

1994 International East-West Conference on Multimedia, Hypermedia and Virtual Reality (Moscow, Russia)

1994 Japanese - CIS Conference on Knowledge-Based Software Engineering, JCKBSE'94 (Pereslavl-Zalessky, Russia)

1994 Fifth Annual Soviet UNIX Users Group (SUUG) Conference (Moscow, Russia)

1993 International Conference on Computers in Education, ICCE'93 (Taiwan)

1993 East-West Artificial Intelligence Conference (Moscow, Russia)

1993 International Free Software Conference (Moscow, Russia)

1992 East-West Conference on Emerging Computer Technologies in Education (Moscow, Russia)

1992 Third Annual SUUG Conference (St. Petersburg, Russia)

1991 Second Annual SUUG Conference (Vladimir, Russia)

1991 SUUG Workshop on UNIX and Applications (Moscow, Russia)

1990 First Annual SUUG Conference (Moscow, Russia)

Organizing activities (conferences, workshops, panels)

1999 Second Workshop on Adaptive Systems and User Modeling on WWW at 8th International Word Wide Web Conference, Toronto, Canada (Primary organizer)

1998 Second Workshop on Adaptive hypertext and hypermedia at the Ninth ACM International Hypertext Conference, Hypertext'98. Pittsburgh, PA (Primary organizer)

1998 Second International Flexible Hypertext Workshop at the 7th International World Wide Web Conference, Brisbane, Australia (Co-organizer)

1997 Workshop "Intelligent Educational Systems on the World Wide Web" at AI-ED'97, 8th World Conference on Artificial Intelligence in Education. Kobe, Japan (Primary organizer)

1997 Workshop "Adaptive Systems and User Modeling on the World Wide Web" at the 6th International Conference on User Modeling, Sardinia, Italy (Primary organizer)

1997 Workshop "Flexible Hypertext" at The Eighth ACM International Hypertext Conference, Hypertext'97. Southampton, UK (Co-organizer)

1996 Workshop "Adaptive Educational Hypermedia and its Implementation on WWW" at ED-MEDIA'96, World Conference on Educational Multimedia and Hypermedia, Boston, MA (Primary organizer)

1995 ACM Conference on Human Factors in Computer Systems, CHI'95, Denver, CO. (Member, Organizing Committee)

1994 Panel "The use of hypermedia in the teaching and learning of programming" at ED-MEDIA'94, World Conference on Educational Multimedia and Hypermedia, Vancouver, Canada (Organizer)

1994 Panel "Authoring for ITS: from minimalist approaches to ITS shells" at ED-MEDIA'94, World Conference on Educational Multimedia and Hypermedia, Vancouver, Canada (Co-organizer)

1994 Workshop "Adaptive hypertext and hypermedia" at 4th International Conference on User Modeling, Hyannis, MA. (Primary organizer)

1994 International East-West Conference on Computer Technology in Education, Crimea, Ukraine (Chairman, Organizing Board).

1994 International East-West Conference on Multimedia, Hypermedia and Virtual Reality, MHVR'94, Moscow, Russia. (Primary organizer)

1994 Japanese - CIS Conference on Knowledge-Based Software Engineering, JCKBSE'94, Pereslavl-Zalessky, Russia. (Member, Organizing Committee)

1994 Fifth Annual Soviet UNIX Users Group (SUUG) Conference, Moscow, Russia. (Member, Organizing Committee)

1993 Workshop "Mini-languages: A way for learning the principles of Programming" at CAL'93, 10th International Conference on Computer-Assisted Learning, York, England (Organizer)

1993 East-West Artificial Intelligence Conference, EWAIC'93, Moscow, Russia. (Member, Organizing Committee)

1993 International Free Software Conference, Moscow, Russia. (Member, Organizing Committee)

1992 East-West Conference on Emerging Computer Technologies in Education, Moscow, Russia. (Primary organizer)

1992 Third Annual SUUG Conference, St. Petersburg, Russia. (Member, Organizing Committee)

1991 Second Annual SUUG Conference, Vladimir, Russia. (Member, Organizing Committee)

1991 SUUG Workshop on UNIX and Applications, Moscow, Russia. (Primary organizer)

1990 First Annual SUUG Conference, Moscow, Russia. (Primary organizer)

VIII Selected[1] recent publications (1992-1999)

Refereed journal articles

Brusilovsky, P. (1999) Adaptive and Intelligent Technologies for Web-based Education. In C. Rollinger and C. Peylo (eds.), Special. Issue on Intelligent Systems and Teleteaching, *Künstliche Intelligenz* (4), (to appear).

Brusilovsky, P., Eklund, J., & Schwarz, E. (1998). Web-based education for all: A tool for developing adaptive courseware. Seventh International World Wide Web Conference. *Computer Networks and ISDN Systems*, 30 (1-7), 291-300.

Brusilovsky, P. and Pesin, L. (1998) Adaptive navigation support in educational hypermedia: An evaluation of the ISIS-Tutor. *Journal of Computing and Information Technology* 6 (1), 27-38.

Brusilovsky, P., & Eklund, J. (1998). A study of user-model based link annotation in educational hypermedia. *Journal of Universal Computer Science*, 4 (4), 429-448.

Brusilovsky, P., Calabrese, E., Hvorecky, J., Kouchnirenko, A., and Miller, P. (1997) Mini-languages: A Way to Learn Programming Principles. *Education and Information Technologies,* 2 (1), p. 65-83.

Brusilovsky, P. Methods and techniques of adaptive hypermedia. (1996) *User Modeling and User-Adapted Interaction*, 6 (2-3), p. 87-129

Brusilovskiy, P. (1994) The Construction and Application of Student Models in Intelligent Tutoring Systems. *Journal of Computer and Systems Sciences International*, 32 (1), 70-89.

Brusilovsky, P. and Gorskaya-Belova, T.B. (1992) The Environment for Physical Geography Teaching. *Computers and Education*, 18 (1-3), p. 85-88.

[1] The selection includes major English publications since 1992. A list of major papers in Russian (journal, book, and international-level conferences papers for 1986-1994) could be obtained by request.

Brusilovsky, P. (1992) The Intelligent Tutor, Environment and Manual for Introductory Programming. *Educational Technology and Training International*, 29 (1), p.26-34.

Edited books

Brusilovsky, P., Kobsa, A. and Vassileva, J. (Eds.) (1998) *Adaptive Hypertext and Hypermedia*. Kluwer Academic Publishers, Dordrecht.

Kommers, P., Dovgiallo, A., Petrushin, V. & Brusilovsky, P. (Eds.) (1997) *New media and telematic technologies for education in Eastern European countries* . Twente University Press, Enschede.

Brusilovsky, P., Kommers, P. and Streitz, N. (Eds.) (1996) *Multimedia, Hypermedia, and Virtual Reality (LNCS Vol. 1077)*. Berlin: Springer-Verlag, 1996.

Edited special issues

P. Brusilovsky and M. Milosavljevic (eds.), Special Issue on Adaptivity and user modeling in hypermedia systems, *The New Review of Hypermedia and Multimedia* **4**, 1999

P. Brusilovsky and J. Vassileva (eds.), Special Issue on Adaptive Hypertext and Hypermedia, *User Modeling and User-Adapted Interaction* **6** (2-3), 1996.

Refereed conference papers

Brusilovsky, P. and Miller, P. (1999) Web-based Testing for Distance Education. Proceedings of WebNet'99, World Conference of the WWW, Internet, and Intranet, (in press)

Brusilovsky, P. and Anderson, J. (1998) ACT-R electronic bookshelf: An adaptive system for learning cognitive psychology on the Web. In: Proceedings of The 3rd World Conference of the WWW, Internet, and Intranet, WebNet'98, Orlando, FL, November 7-12, 1998, AACE, pp. 92-97.

Eklund, J. and Brusilovsky, P. (1998) Individualizing Interaction in Web-based Instructional Systems in Higher Education. In: Proceedings of The Apple University Consortium's Academic Conference, Melbourne, Australia, September 27-30, 1998, pp. 27-30.

Ritter, S., Brusilovsky, P., and Medvedeva, O. (1998) Creating more versatile intelligent learning environments with a component-based architecture. In: B. P. Goettl, H. M. Halff, C. L. Redfield and V. J. Shute (eds.) Lecture Notes in Computer Science, Vol. 1452, (Proceedings of 4th International Conference on Intelligent Tutoring Systems (ITS'98), San Antonio, TX, August 16-19, 1998). Berlin: Springer Verlag, pp. 554-563.

Eklund, J., Brusilovsky, P., & Schwarz, E. (1998). A study of adaptive link annotation in educational hypermedia. ED-MEDIA/ED-TELECOM'98 - World Conference on Educational Multimedia/Hypermedia and World Conference on Educational Telecommunications, AACE. 304-309.

Brusilovsky, P., Ritter, S., and Schwarz, E. (1997) Distributed intelligent tutoring on the Web. In: B. du Boulay and R. Mizoguchi (eds.) Proceedings of AI-ED'97, 8th World Conference on Artificial Intelligence in Education, Kobe, Japan, 18-22 August 1997. Amsterdam: IOS, pp. 482-489.

Brusilovsky, P., Eklund, J., and Schwarz, E. (1997) Adaptive Navigation Support in Educational Hypermedia on the World Wide Web. In: S. Howard, J. Hammond and G. Lindgaard (eds.) *Human-Computer Interaction*. (Proceedings of INTERACT97, The 6th IFIP World Conference on Human-Computer Interaction, Sydney, Australia, 14-18 July, 1997) New York: Chapman & Hall, pp. 278-285.

Eklund, J., Brusilovsky, P., and Schwarz, E. (1997) Adaptive Textbooks on the WWW. In: H. Ashman, P. Thistewaite, R. Debreceny and A. Ellis (eds.) Proceedings of AUSWEB97, The Third Australian Conference on the World Wide Web, Queensland, Australia, July 5-9, 1997, Southern Cross University Press, pp. 186-192.

Brusilovsky, P. and Schwarz, E. (1997) User as student: Towards an adaptive interface for advanced Web-based applications. In: A. Jameson, C. Paris and C. Tasso (eds.) Proceedings of 6th International Conference on User Modeling, Chia Laguna, Sardinia, Italy, June 2-5, 1997 Wien: Springer-Verlag, pp. 177-188.

Brusilovsky, P. and Schwarz, E. (1997) Concept-based navigation in educational hypermedia and its implementation on WWW. In: T. Müldner and T. C. Reeves (eds.) Proceedings of ED-MEDIA/ED-TELECOM'97 - World Conference on Educational Multimedia/Hypermedia and World Conference on Educational Telecommunications, Calgary, Canada, June 14-19, 1997, pp. 112-117.

Brusilovsky, P., Schwarz, E. and Weber, G. (1996) A tool for developing adaptive electronic textbooks on WWW . In Proceedings of WebNet'96 -World Conference of the Web Society, June 1-22, 1996. Boston, MA: AACE. - pp. 64-69.

Brusilovsky, P., Pesin, L., and Zyryanov, M. (1996) Adaptive Educational Hypermedia: A knowledge Based Approach. Proceedings of 6th International Conference on Human-Computer Interaction, EWHCI'96. Moscow, Russia, August 12-16, 1996, pp. 67-73.

Brusilovsky, P. and Weber, G. (1996) Collaborative example selection in an intelligent example-based programming environment. In D. C. Edelson, & E. A. Domeshek (Eds.), In Proceedings of International Conference on Learning Sciences, ICLS'96, Evanston, IL, USA, AACE. - pp. 357-362

Brusilovsky, P., Schwarz, E. and Weber, G. (1996) ELM-ART: An intelligent tutoring system on World Wide Web. In C. Frasson, G. Gauthier, & A. Lesgold (Ed.), Third International Conference on Intelligent Tutoring Systems, ITS-96 (Lecture Notes in Computer Science, Vol. 1086). Berlin: Springer Verlag, 1996, pp. 261-269

Schwarz, E., Brusilovsky, P. and Weber, G. (1996) World-wide intelligent textbooks. In Proceedings of ED-TELECOM'96 - World Conference on Educational Telecommunications, June 1-22, 1996. Boston, MA, AACE. - pp. 302-307.

Brusilovsky, P., Specht, M. and Weber, G. (1995) Towards adaptive learning environments. In F. Huber-Wäschle, H. Schauer, & P. Widmayer (Eds.), Proceedings of GISI 95, Zürich, 18-20 September 1995. Berlin, Springer-Verlag. - pp. 322-329 (With Marcus Specht & Gerhard Weber.)

Beaumont, I. and Brusilovsky, P. (1995) Adaptive educational hypermedia: From ideas to real systems. In H. Maurer (Eds.), Proceedings of ED-MEDIA'95 - World conference on educational multimedia and hypermedia, Graz, Austria, June 17-21, 1995. Charlottesville, AACE. - pp. 93-98

Beaumont, I. and Brusilovsky, P. (1995) Educational applications of adaptive hypermedia. In K. Nordby, P. Helmersen, D. J. Gilmore, & S. A. Arnesen (Eds.), Human-Computer Interaction, Proceedings of Interact'95, Lillehamer, Norway, June 27-29, 1995, London, Chapman & Hall. - pp. 410-414.

Brusilovsky, P. and Pesin L. (1995) Visual annotation of links in adaptive hypermedia. In I. Katz, R. Mack, & L. Marks (Eds.), CHI'95 Conference Companion, Denver, May 7-11, 1995. - pp. 222-223. (With L. Pesin)

Brusilovsky, P. (1995) Intelligent tutoring systems for World-Wide Web. In R. Holzapfel (Eds.), Poster proceedings of Third International WWW Conference. Darmstadt, April 10-14, 1995 - pp. 42-45.

Brusilovsky, P. (1994) Adaptive learning with WWW: The Moscow State University Project. In P. Held, & W. F. Kugemann (Eds.), Proceedings of Telematics for Education and Training Conference, Duesseldorf/Neuss, 24-26 November 1994. Amsterdam, IOS. - pp. 252-255

Brusilovsky, P. (1994) Student model centered architecture for intelligent learning environments. In Proc. of Fourth international conference on User Modeling, 15-19 August, Hyannis, MA, USA. User Modeling Inc., 1994. 31-36

Brusilovsky, P. (1994) Explanatory visualization in an educational programming environment: connecting examples with general knowledge. In Blumenthal B., Gornostaev J. and Unger C. (eds) Human-Computer Interaction. 4th International conference EWHCI'94, St. Petersburg, Russia, August 2-6, 1994. Lecture Notes in Computer Science #876, Springer-Verlag, Berlin, 1994, 202-212.

Brusilovsky, P. (1994) Adaptive hypermedia: the state of the art. In P. Brusilovsky (ed.) Proc of East-West international conference on Multimedia, Hypermedia and Virtual Reality, Moscow, Russia, Sept. 14-16, 1994. ICSTI, Moscow. 24-29

Brusilovsky, P., Kouchnirenko, A., Miller, P., and Tomek, I. (1994) Teaching programming to novices: A review of approaches and tools. In T. Ottman, I. Tomek (eds.) Proc. of ED-MEDIA'94 - World conference on educational multimedia and hypermedia. Vancouver, Canada, June 25-30, 1994. 103-110

Brusilovsky, P. and Pesin, L. (1994) ISIS-Tutor: An adaptive hypertext learning environment. Proc. of JCKBSE'94, Japanese-CIS Symposium on knowledge-based software engineering. Pereslavl-Zalesski, Russia, May 10-13, 1994. Tokyo. 83-87

Brusilovsky, P. and Gomma, M. (1994) Knowledge-based visualization in an educational programming environment. Proceedings of JCKBSE'94, Japanese-CIS Symposium on knowledge-based software engineering. Edited by H. Ueno and V. Stefanuk. Pereslavl-Zalesski, Russia, May 10-13, 1994, pp. 170-173.

Brusilovsky P. and Pesin L. (1994) An intelligent learning environment for CDS/ISIS users. In Levonen J.J and Tukianinen M.T. (eds.) Proc. of the interdisciplinary workshop on complex learning in computer environments (CLCE94), Joensuu, Finland, May 16-19, 1994. 29-33.

Brusilovsky P., Burmistrov I., Kaptelinin V. (1993) Structuring the field of HCI: An empirical study of expert representations. - In Bass L.J., Gornostaev J. and Unger C. (eds.) Human-Computer Interaction. Lecture Notes in Computer Science #753, Springer-Verlag, Berlin, 1993, 11-20.

Brusilovsky, P., Pesin, L. and Zyryanov, M. (1993) Towards an adaptive hypermedia component for an intelligent learning environment. In Bass L.J., Gornostaev J. and Unger C. (eds.) Human-Computer Interaction. Lecture Notes in Computer Science #753, Springer-Verlag, Berlin, 1993, 348-358

Brusilovsky, P. (1993) Student as user: Towards an adaptive interface for an intelligent learning environment. - In P. Brna, S. Ohlson and H. Pain (Eds.) Proceedings of AI-ED'93, World Conference on Artificial Intelligence and Education, Edinburgh, 23-27 August 1993, AACE, Charlottesville, p.386-393

Brusilovsky P. (1993) Program visualization as a debugging tool for novices. In: INTERCHI'93 Adjunct Proceedings, Amsterdam, 24-29 April 1993, p.29-30.

Brusilovsky P., Zyryanov M. (1993) Intelligent Tutor, Environment and Manual for Physical Geography. - In: Proceedings of the Seventh International PEG Conference, PEG'93 Conference, July 2-4, 1993, p.63-73.

Brusilovsky, P. (1993) A Framework for Intelligent Knowledge Sequencing and Task Sequencing. In: Frasson C., Gauthier G., and McCalla G. I. (eds.) Intelligent Tutoring

Systems, Proceedings of Second International Conference, ITS'92, Montreal, Canada, June 10-12, 1992. - LNCS, N.608, Springer-Verlag, Berlin, 1992, p.499-506.

Brusilovsky P. (1993) Adaptive visualization in an intelligent programming environment. In: J. Gornostaev, (ed.) Proceedings of the East-West International Conference on Human-Computer Interaction, EWHCI'92, St. Petersburg, 4-8 August, 1992, p.46-50.

Invited conference papers (not refereed)

Brusilovsky, P. (1995) Intelligent learning environments for programming: The case for integration and adaptation. Invited talk. In J. Greer (Eds.), Proceedings of AI-ED'95, 7th World Conference on Artificial Intelligence in Education, Washington, DC , 16-19 August 1995. - pp. 1-8

Book chapters:

Brusilovsky, P. and Miller, P. (In Press) Course Delivery Systems for the Virtual University. In: T. Dellasenta and F. T. Tschang (eds.): *Access to Knowledge: the Internet and the Emergence of the Virtual University*. Amsterdam: Elsevier Scientific Press and International Association of Universities.

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Brusilovsky, P. and Stefanuk, V. (Eds.) (1992) Proceedings of East-West Conference on Emerging Computer Technologies in Education, Moscow, 6-9 April, 1992. ICSTI, Moscow.

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Brusilovsky, P. and Cooper, D. W. (1999) ADAPTS: Adaptive hypermedia for a Web-based performance support system. In: P. Brusilovsky and P. De Bra (eds.) Proceedings of Second Workshop on Adaptive Systems and User Modeling on WWW at 8th International Word Wide Web Conference and 7-th International Conference on User Modeling, Toronto and Banff, Canada, May 11 and June 23-24, 1999, Computing Science Report # 99-07, Eindhoven University of Technology, Eindhoven.

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Eklund, J. and Brusilovsky, P. (1998) The value of adaptivity in hypermedia learning environmentsL A short review of empirical evidence. In: P. Brusilovsky and P. De Bra (eds.) Proceedings of Second Adaptive Hypertext and Hypermedia Workshop at the Ninth ACM International Hypertext Conference Hypertext'98, Pittsburgh, PA, June 20, 1998, Computing Science Report # 98/12, Eindhoven University of Technology, Eindhoven. pp. 13-19.

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Brusilovsky, P. (1995) Integrating Hypermedia and Intelligent Tutoring Technologies: From Systems to Authoring Tools. Proceedings of AI-ED-95 Workshop on Authoring Shells for Intelligent Tutoring Systems, Washington, DC, 16 August 1995.

Recent invited talks and presentations (1994-1999)

“Adaptive Hypermedia: State of the Art and Prospects”, IBM T. J. Watson Research Center, Yorktown Heights, NY, October 15, 1999

“Adaptive Hypermedia: State of the Art and Prospects”, Institute for Applied Information Technology, GMD (German National Research Center), St. Augustin, March 15, 1999

“Adaptive Hypermedia for Web-based education”, an invited talk at “Virtual Campus” workshop, Goslar, Germany, March 11, 1999

"Adaptive Navigation Support in Hypertext and Hypermedia", Human-Computer Interaction Institute seminar, Carnegie Mellon University, April 1, 1998

"Adaptive Navigation Support for Web-based Learning Systems", Computer Research Center, National Polytechnic Institute, Mexico City, March 13, 1998

"Adaptive Navigation Support for Web-based Learning Systems", Learning Research and Development Center, University of Pittsburgh, PA, March 9, 1998

"Adaptive Hypermedia: State of the Art and Prospects", Faculty of Mathematics and Computer Science, Eindhoven University of Technology, February 20, 1998

"Adaptive Hypermedia: State of the Art and Prospects", Department of Computer Science, University of Antwerpen, Belgium, February 19, 1998

"Adaptive Hypermedia: State of the Art and Prospects", Department of Computer Science, Katholieke Universiteit Leuven, Belgium, February 18, 1998

"Adaptive Hypermedia: State of the Art and Prospects", Centrum voor Wiskunde en Informatica (CWI), Amsterdam, the Netherlands, February 17, 1998

"Adaptive Educational Systems on the Web: Research and Application", Text Learning Seminar, Carnegie Mellon University, October 27, 1997

"Adaptive Electronic Books for Distance Learning", Honeywell Technology Center, Minneapolis, MN, September 2, 1997

"A knowledge-based approach to creating adaptive electronic textbooks", Seventh International Conference on Human-Computer Interaction, HCI International '97, San Francisco, CA, August 24-29, 1997

"Adaptive Educational Systems on the Web: Research and Application", NTT Information and Communication Systems Laboratories, Tokyo, Japan, August 25, 1997

"Adaptive Hypermedia: State of the Art and Prospects", Knowledge Media Institute, Open University, UK, April 8, 1997

"Adaptive Hypermedia: State of the Art and Prospects", Language Technology Institute, Carnegie Mellon University, November 20, 1996

"Adaptive Hypermedia: State of the Art and Prospects", Information Sciences Institute, University of Southern California, Marina Del Rey, CA, October 10, 1996

"Adaptive Educational Systems on the Web: Research and Application", Carnegie Group Inc., Pittsburgh, PA, September, 1996

"Developing Interactive and Adaptive Instruction on the Web", Technology Enchanced Learning Symposium, Carnegie Mellon University, May 21-22, 1996

"Adaptive Hypermedia: State of the Art and Prospects", Department of Computer Science, University of Tübingen, Germany, November 15, 1995

"Adaptive Educational Systems on the Web: Research and Application", EUNIS'95 Congress "Trends in Academic Information Systems" Düsseldorf, Germany, November 6-8, 1995

"Intelligent guidance in ITS: from adaptive sequencing to adaptive hypermedia", LORIA, University of Nancy I, France, September 28, 1995

"Intelligent guidance in ITS: from adaptive sequencing to adaptive hypermedia", Department of Computer Science, University du Maine in Le Mans, France, September 27, 1995

"Intelligent learning environments for programming: The case for integration and adaptation", Invited plenary address presented at 5th World Conference on Artificial Intelligence in Education, Washington, DC, August 17, 1995

"Intelligent learning environments for programming: Integration and adaptation", Department of Computer Science, University of Oldenburg, Germany, June 30, 1995

"Adaptive Hypermedia in an Intelligent Learning Environment", U.S. Air Force Office of Scientific Research *Window On Science* Invited Presentation, Armstrong Laboratory, Brooks Air Force Base, TX, May 8, 1995

"Intelligent learning environments for programming: Integration and adaptation", Department of Computer Science, University of Stuttgart, Germany, March 14, 1995

"Adaptive Hypermedia in an Intelligent Learning Environment", Integrated Publication and Information Systems Institute, GMD, Darmstadt, Germany, October, 1994

IX Student Advising

PhD student advisor (until 1996)

Alexander Proskura, Moscow State University

Leonid Pesin, Moscow State University
Proposed: June 1996

Mikhail Zyryanov, Moscow State University
Proposed: June 1995

Oleg Lukibanov, Moscow State University
Moved to Michigan State University

MS (Diploma) student advisor

Mikhail Gomma, Moscow State University
Completed: May, 1995

Alexander Proskura, Moscow State University
Completed: May, 1995

Olga Proskura, Moscow State University
Completed: May, 1995

Leonid Pesin, Moscow State University
Completed: May, 1993

Timofey Cherkasov, Moscow State University
Completed: May, 1993

Alexander Nagayuk, Moscow State University
Completed: May, 1993

Mikhail Zyryanov, Moscow State University
Completed: May, 1992

Oleg Prigozhin, Moscow State University
Completed: May, 1991

Egor Efimov, Moscow State University
Completed: May, 1991

Natasha Haritonova, Moscow State University
Completed: May, 1990

Vasilij Igushkin, Moscow State University
Completed: May, 1989

External committee member, PhD defences

Mikhail Epiktetov, Moscow State University, 1993

Miguel Encarnação, Universiät Tübingen, Germany, 1997

Licia Calvi, Universiteit Antwerpen, Belgium, 1998