

## CURRICULUM VITAE

**Peter Brusilovsky**

### I Contact

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### II Research Interests

#### Fields of research and expertise

Learning Technologies, Information Science, Human-Computer Interaction,  
Social Computing, Artificial Intelligence

#### Areas of research interests

Adaptive hypertext and hypermedia, adaptive e-learning, student and user modeling, personalized and social information access, intelligent tutoring systems, computer science education

### III Education

- 1983-1987 **Moscow State University**, Moscow, Russia  
Faculty of Computational 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"  
Served as a Teaching Assistant and a Teacher for Introductory Programming courses.
- 1978-1983 **Moscow State University**, Moscow, Russia  
Faculty of Computational Mathematics and Cybernetics  
**B.S. and M.S. in Applied Mathematics**.  
Diploma "with Excellence" (QPA 4.0 out of 4.0).  
Thesis: "On-line manuals and on-line help in software systems"

### IV Professional Employment and Experience

#### 1. Full-time appointments

- Since 09/17 **Professor, School of Computing and Information, University of Pittsburgh**
- 09/11-08/17 **Professor, School of Information Sciences and Intelligent Systems Program, University of Pittsburgh**

- 07/12-06/16 **Professor and Chair, Graduate Information Science and Technology Program, School of Information Sciences, University of Pittsburgh**
- 09/05-08/11 **Associate Professor, School of Information Sciences and Intelligent Systems Program, University of Pittsburgh**
- 08/00-09/05 **Assistant Professor, School of Information Sciences and Intelligent Systems Program, University of Pittsburgh**
- 07/98-07/00 **Director of Computer-Managed Instruction, later Consultant, Carnegie Technology Education, Pittsburgh, PA**
- 04/96-06/98 **Visiting Research Scientist, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA**  
Affiliated with **Human-Computer Interaction Institute**
- 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**
- 04/90-09/94 **Senior Research Scientist, International Center for Scientific and Technical Information (ICSTI), Moscow, Russia**
- 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)**

## **2. Visiting and adjunct appointments:**

- 08/13-06/14 **Fulbright-Nokia Distinguished Chair, Aalto University, University of Helsinki, Finland**  
Sabbatical Visiting Position
- 09/98-present **Adjunct Faculty, Human-Computer Interaction Institute, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA**
- 04/04-4/2009 **Visiting Professor, National College of Ireland, Ireland**
- 07/2002 **Visiting Professor, University of Bolzano, Italy**
- 10/93-11/93 **Visiting Assistant Professor, Tokyo Denki University, Tokyo, Japan.**
- 05/93-08/93 **Postdoctoral Researcher, School of Cognitive and Computing Sciences, Sussex University, UK** (funded by the Royal Society Ex-Quota Fellowship).

## **3. Teaching**

- 2009-2021 **Introduction to Ph.D. Studies, University of Pittsburgh**
- 2008-2010 **Social Web. University of Pittsburgh.**
- 2001-2021 **Adaptive Information Systems University of Pittsburgh.**
- 2002-2021 **Interactive System Design University of Pittsburgh.**

- 2002-2015 **Introduction to Programming.** University of Pittsburgh.
- 2012-2017 **Introduction to OO Programming.** University of Pittsburgh.
- 2001-2005 **Information Storage and Retrieval** University of Pittsburgh.
- 2000-2001 **Data Structures & Programming Techniques** University of Pittsburgh.

## **V Academic Awards and Honors**

- 2021 Best Paper Award at 29th ACM Conference on User Modeling, Adaptation and Personalization (UMAP 2021)
- 2021 Invited Speaker, 17th International Conference on Intelligent Tutoring Systems (ITS 2021)
- 2017 Provost Award for Excellence in Mentoring, University of Pittsburgh
- 2016 Invited Speaker, 15th International Conference on Web-based Learning (Italy)
- 2014 Best Paper Award at 9th European Conference on Technology Enhanced Learning (EC-TEL 2014)
- 2014 Elevated to *Senior Member* of the IEEE
- 2013 Awarded Fulbright-Nokia Distinguished Chair in Finland by US Institute of International Education
- 2013 Best Paper Award at IEEE Conference on Advanced Learning Technologies (ICALT 2013)
- 2012 Invited Speaker, WebMedia 2012 (Brazil)
- 2010 Invited Speaker, ITEC 2010, 1st International Conference on Interdisciplinary Research on Technology, Education and Communication (Belgium)
- 2009 Awarded *Dr. Honoris Causa* degree by Slovak Technical University in Bratislava
- 2009 Elevated to *Senior Member* of the ACM
- 2008 Best paper award at 5th International Conference on Adaptive Hypermedia and Adaptive Web-based Systems (Germany)
- 2008 Invited Speaker, 5th International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (Germany)
- 2008 Invited Speaker, SOFSEM 2008, 34th International Conference on Current Trends in Theory and Practice of Computer Science (Slovakia)
- 2006 E.T.S. Walton Visitor Award, Science Foundation Ireland
- 2005 NSF CAREER Award
- 2006 Outstanding Paper Award at E-Learn 2006, World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education
- 2005 Invited Speaker, IJCAI'05 Workshop on Intelligent Techniques for Web Personalization (Edinburgh, UK)
- 2004 Outstanding Paper Award at E-Learn 2004, World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education
- 2004 Invited Speaker, 4th Hellenic Conference "Information & Communication Technologies in Education" (Athens, Greece)
- 2003 Invited Speaker, Italian Human-Computer Interaction Conference HCITALY 2003 (Turin, Italy)
- 2003 Invited Speaker, German Human-Computer Interaction Conference Mensch und Computer 2003 (Stuttgart, Germany)

- 2003 Elected *President* of the User Modeling professional society (UM Inc.)
- 2002 Ted Nelson Best Newcomer Paper Award at ACM Hypertext'2002
- 2002 Invited Speaker, IASTED International Conference WWW/Internet 2002 (Lisbon, Portugal)
- 2001 Elected *Vice President* of the User Modeling professional society (UM Inc.)
- 2001 Invited Speaker, 10th International PEG Conference (Tampere, Finland)
- 2000 Invited Speaker, Fifth International Conference on Intelligent Tutoring Systems (Montreal, Canada)
- 1996 James S. McDonnell Fellowship (USA)
- 1995 Invited Speaker, 5th World Conference on Artificial Intelligence in Education (Washington, DC)
- 1995 Invited Speaker, Window On Science (WOS) Program, U.S. Air Force Office of Scientific Research (Brooks Air Force Base, TX)
- 1994 Alexander von Humboldt Fellowship (Germany)
- 1993 The Royal Society Ex-Quota Fellowship (UK)
- 1992 Invited Speaker, Third Soviet Conference on Artificial Intelligence
- 1983 Graduated Summa cum Laude (QPA 4.0) from Moscow State University
- 1978 Graduated with Gold Medal from High School #201, Moscow

## **VI Grants and Fellowships**

### **Awarded Grants and Fellowships**

- 2019-2023 NIH/NLM: "Development and Implementation of a Health e-Librarian with Personalized Recommender (HELPeR)" (CoPI, with Young Ji Lee and Daqing He, PIs, \$1,287,951), 48 months
- 2018-2021 NSF Cyberlearning: Collaborative Research: CSEdPad: Investigating and Scaffolding Students' Mental Models during Computer Programming Tasks to Improve Learning, Engagement, and Retention (With University of Memphis, Pitt share \$250,519), 36 months
- 2019-2021 Pitt Personalized Education: "The Pitt Grapevine: An Advisor-in-the-Loop Academic Recommender System" (PI, with a group of Pitt faculty, \$14,991)
- 2019-2020 Pitt Personalized Education: "IRIS: Intelligent Recommender for Instructors and Students -- Completing Personalized Assessment Loop" (CoPI, with Daqing He, PI, \$14,995)
- 2018-2019 Pitt Personalized Education: "It is Who You Know: Feasibility of a Hybrid Recommender System to Connect Students with Informal Social Networks of Pitt Researchers" (With a group of Pitt faculty, \$9,775)
- 2017-2022 NSF DRL: Collaborative Research: Community-Building and Infrastructure Design for Data-Intensive Research in Computer Science Education (Lead organization, with CMU and Virginia Tech, Pitt share: \$271,216), original term 30 months (DRL 1740775)
- 2016-2017 NSF-I-Corps Pitt Ventures (\$3,000)

- 2016-2017 Pitt ACIE: Enhancing Learning in a Large Enrollment Introductory Course by Using Visual and Social Strategies (Innovation in Education Award, University of Pittsburgh, \$10,774, with Pratibha Menon)
- 2015-2018 NSF CHS: Open Corpus Personalized Learning. With Daqing He, (IIS 1525186, \$499,758.00)
- 2014-2016 ADL (Army) Extending the OSLM Infrastructure with Smart Content for Python Programming, ADL grant extension (Together with Aalto University), \$217,730
- 2013-2016 ADL (Army) Adaptive Navigation Support and Open Social Learner Modeling for PAL \$623,005
- 2012-2013 NSF DUE: Collaborative Project: Ensemble: Enriching Communities and Collections to Support Education in Computing (extension) \$16,605.00
- 2012-2013 Pitt ACIE: Engaging Students in Online Reading Through Social Progress Visualization (Innovation in Education Award, University of Pittsburgh, \$21,000)
- 2011-2012 NSF IIS: Interactive Visualization and Modeling of Latent Communities (IIS 1138094, \$140,145) Funded by the Institute for Defense Analysis
- 2011 NSF: Supporting Students Attending the User Modeling, Adaptation and Personalization 2011 Conference (IIS 1135374, \$15,396)
- 2010-2011 Google: Personalized Social Systems for Local Communities (\$55,911)  
The project explores the use of personalization and mobile computing to increase user engagement in location-bound social systems
- 2010-2011 NSF EAGER: Modeling and Visualization of Latent Communities (IIS 1059577, \$155,881, 1 year) The project focuses on the problem of discovering latent communities from Social Web data and presenting this data in visual form. Funded by the Institute for Defense Analysis
- 2010-2011 NSF EAGER: Personalization and social networking for short-term communities PI. (IIS 1052768) Together with Jung Sun Oh, coPI. (\$99,999, 1 year) The project explores a range of approaches, which can enable reliable social networking and personalization in communities, which exist for short period of time, like researchers attending a specific conference.
- 2008-2014 NSF NSDL: Ensemble: Enriching Communities and Collections to support Education in Computing. Major collaborative project (DUE #0840597, Pitt budget \$82,820, 3 years).
- 2007-2008 NSF CCLI: Personalized Exploratorium for Database Courses. PI. Together with Vladimir Zadorozhny, coPI (DUE #0633494, \$149,345, 2 years). The proposal is focused on developing an educational environment for teaching Database courses.
- 2005-2010 DARPA: GALE: Distillation with Utility-Optimized Transcription and Translation. Jointly with IBM, Carnegie Mellon University, Stanford University, University of Maryland, PI of Pitt team (Pitt budget \$988,896)
- 2005-2010 NSF CAREER: Personalized Access to Open Corpus Educational Resources through Adaptive Navigation Support and Adaptive Visualization. PI. (IIS #0447083; \$440,000 5 years). The proposal is focused on developing technologies for

- personalized access to information based on adaptive navigation support, collaborative filtering, and information visualization
- 2005-2006 National Science Foundation: Supporting Students Attending User Modeling 2005 Conference; July 23-29, 2005; Edinburgh, PI (\$11,400, 1 year)
- 2004-2007 National Science Foundation, CRCED/EI: Adaptive Explanatory Visualization for Learning Programming Concepts. PI. Together with Michael Spring, coPI (OCI #0426021, \$220,000, 3 years). The proposal is focused on developing and studying adaptive explanatory visualization technologies for C and Java programming languages
- 2004 Office of Naval Research: 3rd international conference on Adaptive Hypermedia and Adaptive Web-based systems (Student travel support). PI. (\$4900, 6 month)
- 2003-2005 National Science Foundation, CCLI: Individualized Exercises for Assessment and Self-Assessment of Programming Knowledge. PI. (DUE #0310576, \$98,522, 2 years). The proposal suggests developing and evaluating a personalized assessment technology for programming courses.
- 2003-2004 Educational Software for Teaching and Learning Information Retrieval. Innovation in Education Award, University of Pittsburgh, PI (\$21,070, 1 year).
- 2003-2004 National Science Foundation: Supporting Students Attending User Modeling 2003 Conference, PI (\$13,220, 1 year)
- 2001-2002 Supporting Learning from Examples in a Programming Course. Innovation in Education Award, University of Pittsburgh, PI (\$23,000, 1 year).
- 1997-1998 National Science Foundation, Collaborative Research: Adaptive Electronic Textbooks for World Wide Web, (together with Prof John Anderson, PI, in partnership with University of Trier), Co-PI (\$33K, 2 years)
- 1997 "A Comparative Study of Web-based Educational Systems", Office of President, Carnegie Mellon University, PI (\$35K, 10 months)

## **VII Publications**

### **Papers in refereed journals**

Albó, L., Barria-Pineda, J., Brusilovsky, P., and Hernández-Leo, D. (2021) Knowledge-Based Design Analytics for Authoring Courses with Smart Learning Content. *International Journal of Artificial Intelligence in Education*.

Tsai, C.-H. and Brusilovsky, P. (2021) The effects of controllability and explainability in a social recommender system. *User Modeling and User-Adapted Interaction*.

Chau, H., Labutov, I., Thaker, K., He, D., and Brusilovsky, P. (2021) Automatic Concept Extraction for Domain and Student Modeling in Adaptive Textbooks. *International Journal of Artificial Intelligence in Education* .

Mangaroska, K., Vesin, B., Kostakos, V., Brusilovsky, P., and Giannakos, M. (2021) Architecting Analytics Across Multiple E-Learning Systems to Enhance Learning Design. *IEEE Transactions on Learning Technologies* 14 (2), 173 - 188.

- Somyürek, S., Brusilovsky, P., Çebi, A., Akhüseyinoğlu, K., and Güyer, T. (2021) *How do students perceive their own and their peers' progress in e-learning?* *International Journal of Information and Learning Technology* 38 (1), 49-74.
- Somyürek, S., Brusilovsky, P., and Guerra, J. (2020) Supporting knowledge monitoring ability: open learner modeling vs. open social learner modeling. *Research and Practice in Technology Enhanced Learning* 15, Article number 17.
- Hosseini, R., Akhuseyinoglu, K., Brusilovsky, P., Malmi, L., Pollari-Malmi, K., Schunn, C., and Sirkiä, T. (2020) Improving Engagement in Program Construction Examples for Learning Python Programming. *International Journal of Artificial Intelligence in Education* 30 (2), 299-336.
- Kortsarts, Y., Akhuseyinoglu, K., Barria-Pineda, J., and Brusilovsky, P. (2020) Integrating personalized online practice into an introductory programming course. *Journal of Computing Sciences in Colleges* 35 (8), 264-266.
- di Sciascio, C., Brusilovsky, P., Trattner, C., and Veas, E. (2020) A Roadmap to User-Controllable Social Exploratory Search. *ACM Transactions on Interactive Intelligent Systems* 10 (1), Article 8.
- Tsai, C.-H. and Brusilovsky, P. (2020) Exploring Social Recommendations with Visual Diversity-Promoting Interfaces. *ACM Transactions on Interactive Intelligent Systems* 10 (1), Article 5.
- Lin, Y.-I., Parra, D., Trattner, C., and Brusilovsky, P. (2019) Tag-based information access in image collections: insights from log and eye-gaze analyses. *Knowledge and Information Systems* 61 (3), 1715–1742.
- Amal, S., C.-H. Tsai, P. Brusilovsky, T. Kuflik and E. Minkov (2019) Relational social recommendation: Application to the academic domain. *Expert Systems with Applications* 124, 182-195.
- Cardoso, B., G. Sedrakyan, F. Gutiérrez, D. Parra, P. Brusilovsky and K. Verbert (2019) IntersectionExplorer, a multi-perspective approach for exploring recommendations. *International Journal of Human-Computer Studies* 121 (1), 73-92.
- Lee, D. H. and P. Brusilovsky (2019). The first impression of conference papers: Does it matter in predicting future citations? *Journal of the Association for Information Science and Technology* 70 (1), 83-95.
- Farzan, R. and P. Brusilovsky (2019) Following others through an information maze: The impact of social navigation on information seeking behavior. *International Journal of Human-Computer Studies*, 124 (April), 81-92.
- Brusilovsky, P., L. Malmi, R. Hosseini, J. Guerra, T. Sirkiä and K. Pollari-Malmi (2018) An integrated practice system for learning programming in Python: design and evaluation. *Research and Practice in Technology Enhanced Learning* 13 (18), 18.11-18.40.
- Guerra, J., C. Schunn, S. Bull, J. Barria-Pineda and P. Brusilovsky (2018) Navigation support in complex open learner models: assessing visual design alternatives. *New Review of Hypermedia and Multimedia* 24 (3), 160-192.
- Li, S., Brusilovsky, P., Su, S., and Cheng, X. (2018) Conference Paper Recommendation for Academic Conferences. *IEEE Access*, 6, 17153 - 17164.
- Hosseini, R. and Brusilovsky, P. (2017) A Study of Concept-Based Similarity Approaches for Recommending Program Examples. *New Review of Hypermedia and Multimedia*, 23 (3), 161-188.
- Lee, D. and Brusilovsky, P. (2017) How to Measure Information Similarity in Online Social Networks: A Case Study of Citeulike. *Information Sciences* 418-419, 46-60.

- Lee, D. H. and Brusilovsky, P. (2017) Improving Personalized Recommendations using Community Membership Information. *Information Processing and Management* 53 (5), 1201–1214.
- Brusilovsky, P., Oh, J. S., López, C., Parra, D., and Jeng, W. (2017) Linking information and people in a social system for academic conferences. *New Review of Hypermedia and Multimedia* 23 (2), 81-111.
- Hsiao, I.-H. and Brusilovsky, P. (2017) Guiding and Motivating Students Through Open Social Student Modeling: Lessons Learned. *Teachers College Record* 119 (3).
- Hosseini, R. and Brusilovsky, P. (2017) A Study of Concept-Based Similarity Approaches for Recommending Program Examples. *New Review of Hypermedia and Multimedia* 23 (3), 161-188.
- Lee, D. and Brusilovsky, P. (2017) How to Measure Information Similarity in Online Social Networks: A Case Study of Citeulike. *Information Sciences* 418-419, 46-60.
- Anwar, M. and Brusilovsky, P. (2017) *International Journal of Information Security and Privacy* 11 (1), 1-17.
- Brusilovsky, P., Somyurek, S., Guerra, J., Hosseini, R., Zadorozhny, V., and Durlach, P. (2016) Open Social Student Modeling for Personalized Learning. *IEEE Transactions on Emerging Topics in Computing* 4 (3), 450-461.
- Lin, Y.-L., Brusilovsky, P., and He, D. (2016) Finding cultural heritage images through a Dual-Perspective Navigation Framework. *Information Processing & Management* 52 (5), 820–839.
- Verbert, K., Parra-Santander, D., and Brusilovsky, P. (2016) Agents Vs. Users: Visual Recommendation of Research Talks with Multiple Dimension of Relevance. *ACM Transactions on Interactive Intelligent Systems* 6 (2), Article No. 11
- Weber, G. and Brusilovsky, P. (2016) ELM-ART - An Interactive and Intelligent Web-Based Electronic Textbook. *International Journal of Artificial Intelligence in Education* 26 (1), 72-81.
- Sosnovsky, S. and Brusilovsky, P. (2015) Evaluation of Topic-based Adaptation and Student Modeling in QuizGuide. *User Modeling and User-Adapted Interaction* 25 (4), 371-424.
- Lin, Y.-l., Trattner, C., Brusilovsky, P., and He, D. (2015) The impact of image descriptions on user tagging behavior: A study of the nature and functionality of crowdsourced tags. *Journal of the Association for Information Science and Technology* 66 (9), 1785–1798.
- Parra, D. and Brusilovsky, P. (2015) User-controllable personalization: A case study with SetFusion. *International Journal of Human-Computer Studies* 78, 43–67.
- López, C., Butler, B., and Brusilovsky, P. (2014) Does Anything Ever Happen Around Here? Assessing the Online Information Landscape for Local Events. *Journal of Urban Technology* 21 (4), 95-123.
- Lee, D. and Brusilovsky, P. (2014) Recommending Talks at Research Conferences Using Users' Social Networks. *International Journal of Cooperative Information Systems* 23 (2).
- Hsiao, I.-H., Bakalov, F., Brusilovsky, P., and König-Ries, B. (2013) Progressor: social navigation support through open social student modeling. *New Review of Hypermedia and Multimedia* 19 (2), 112-131
- Ahn, J. and Brusilovsky, P. (2013) Adaptive visualization for exploratory information retrieval. *Information Processing and Management* 49 (5), 1139-1164.
- Lee, D. and Brusilovsky, P. (2012) Proactive: Comprehensive Access to Job Information. *Journal of Information Processing Systems* 8 (4), 707-724.

- Lin, Y., Brusilovsky, P., and He, D. (2011) Improving Self-Organizing Information Maps as Navigational Tools: A Semantic Approach. *Online Information Review* 35 (3), 401 - 424.
- Farzan, R. and Brusilovsky, P. (2011) Encouraging User Participation in a Course Recommender System: An Impact on User Behavior. *Computers in Human Behavior* 27 (1), 276-284.
- Loboda, T., Brusilovsky, P., and Grady, J. (2011) An Agent for Versatile Intelligence Analysis System. *Intelligent Decisions Technologies* 5 (1), 17-30.
- Hsiao, I.-H. and Brusilovsky, P. (2011) The Role of Community Feedback in the Student Example Authoring Process: an Evaluation of AnnotEx. *British Journal of Educational Technology* 42 (3), 482-499
- Mertens, R., Ketterl, M., and Brusilovsky, P. (2010) Social Navigation in Web Lectures: A Study of virtPresenter. *Interactive Technology and Smart Education*, 7 (3), 181-196.
- Loboda, T. and Brusilovsky, P. (2010) User-Adaptive Explanatory Program Visualization: Evaluation and Insights from Eye Movements User Modeling and User-Adapted Interaction 20 (3), 191-226.
- Brusilovsky, P., Ahn, J.-w., and Rasmussen, E. (2010) Teaching Information Retrieval with Web-based Interactive Visualization. *Journal of Education for Library and Information Science* 51 (3), 187-200.
- Hsiao, I.-H., Sosnovsky, S., and Brusilovsky, P. (2010) Guiding students to the right questions: adaptive navigation support in an E-Learning system for Java programming. *Journal of Computer Assisted Learning* 26 (4), 270-283.
- Ahn, J.-w., Brusilovsky, P., Grady, J., He, D., and Florian, R. (2010) Semantic Annotation Based Exploratory Search for Information Analysts. *Information Processing and Management* 46 (4), 383-402.
- Brusilovsky, P., Sosnovsky, S., Lee, D., Yudelson, M., Zadorozhny, V., and Zhou, X.: Learning SQL programming with interactive tools: from integration to personalization. *ACM Transactions on Computing Education* 9, 4 (2010) Article No. 19, pp. 1-15.
- Ahn, J.-w. and Brusilovsky, P. (2009) Adaptive Visualization of Search Results: Bringing User Models to Visual Analytics. *Information Visualization* 8 (3), 167-179.
- Brusilovsky, P., Yudelson, M., and Hsiao, I.-H. (2009) Problem Solving Examples as First Class Objects in Educational Digital Libraries: Three Obstacles to Overcome. *Journal of Educational Multimedia and Hypermedia* 18 (3), 267-288.
- Brusilovsky, P., Sosnovsky, S., and Yudelson, M. (2009) Addictive links: The motivational value of adaptive link annotation. *New Review of Hypermedia and Multimedia* 15 (1), 97-118.
- Mertens, R., Brusilovsky, P., Ishchenko, S., and Vornberger, O. (2009) Bridging the Gap between Time- and Structure-Based Navigation in Web Lectures. *International Journal on E-Learning* 8 (1), 89-105.
- He, D., Brusilovsky, P., Ahn, J.-w., Grady, J., Farzan, R., Peng, Y., Yang, Y., and Rogati, M. (2008) An evaluation of adaptive filtering in the context of realistic task-based information exploration. *Information Processing and Management* 44, 511-533.
- Rey-López, M., Brusilovsky, P., Meccawy, M., Díaz-Redondo, R. P., Fernández-Vilas, A., and Ashman, H. (2008) Resolving the Problem of Intelligent Learning Content in Learning Management Systems. *International Journal on E-Learning* 7 (3), 363-381.

- Zadorozhny, V., Yudelson, M., and Brusilovsky, P. (2008) A Framework for Performance Evaluation of User Modeling Servers for Web Applications. *Web Intelligence and Agent Systems* 5 (2), 175-191.
- Brusilovsky, P. and Yudelson, M. (2008) From WebEx to NavEx: Interactive Access to Annotated Program Examples. *Proceedings of the IEEE* 96 (6), 990-999.
- Farzan, R. and Brusilovsky, P. (2008) AnnotatEd: A social navigation and annotation service for web-based educational resources. *New Review in Hypermedia and Multimedia* 14 (1), 3-32.
- Brusilovsky, P., Knapp, J., and Gamper, J. (2006) Supporting teachers as content authors in intelligent educational systems. *International Journal of Knowledge and Learning* 2 (3/4), 191-215.
- Brusilovsky, P., Grady, J., Spring, M., and Lee, C.-H. (2006) What should be visualized? Faculty perception of priority topics for program visualization. *SIGCSE Bulletin* 38 (2), 44-48.
- Ahn, J.-W., Farzan, R., and Brusilovsky, P. (2006) Social Search in the Context of Social Navigation. *Journal of the Korean Society for Information Management* 23 (2), 147-165.
- Brusilovsky, P. and Sosnovsky, S. (2005) Individualized Exercises for Self-Assessment of Programming Knowledge: An Evaluation of QuizPACK. *ACM Journal on Educational Resources in Computing* 5 (3), Article No. 6.
- Naps, T., G. Rößling, P. Brusilovsky, et al. (2005). "Development of XML-based tools to support user interaction with algorithm visualization." *ACM SIGCSE bulletin* 37(4): 123-138.
- Brusilovsky, P., Karagiannidis, C., and Sampson, D. (2004) Layered evaluation of adaptive learning systems. *International Journal of Continuing Engineering Education and Lifelong Learning* 14 (4/5), 402 – 421.
- Brusilovsky, P., Shcherbinina, O., and Sosnovsky, S. (2004) Mini-languages for non-computer science majors: what are the benefits? *International Journal of Interactive Technology and Smart Education* 1 (1), 3-10.
- Brusilovsky, P. and Tasso, C. (2004) Preface to special issue on user modeling for Web information retrieval. *User Modeling and User Adapted Interaction* 14 (2-3), 147-157.
- Brusilovsky, P. (2004) Adaptive navigation support: From adaptive hypermedia to the adaptive Web and beyond. *Psychology* 2 (1), available at <http://www.psychology.org/article501.htm>.
- Brusilovsky, P. and Peylo, C. (2003) Adaptive and intelligent Web-based educational systems. *International Journal of Artificial Intelligence in Education* 13 (2-4), 159-172.
- Brusilovsky, P. (2003) Adaptive navigation support in educational hypermedia: the role of student knowledge level and the case for meta-adaptation. *British Journal of Educational Technology* 34 (4), 487-497.
- Brusilovsky, P. and Vassileva, J. (2003) Course sequencing techniques for large-scale web-based education. *International Journal of Continuing Engineering Education and Lifelong Learning* 13 (1/2), 75-94.
- Brusilovsky, P. and Rizzo, R. (2002) Using maps and landmarks for navigation between closed and open corpus hyperspace in Web-based education. *The New Review of Hypermedia and Multimedia* 9, 59-82.
- Brusilovsky, P. and Rizzo, R. (2002) Map-based horizontal navigation in educational hypertext. *Journal of Digital Information*, 3(1). Available at <http://jodi.ecs.soton.ac.uk/Articles/v03/i01/Brusilovsky/>.
- Brusilovsky, P. and Maybury, M. T. (2002) From adaptive hypermedia to adaptive Web. *Communications of the ACM* 45 (5), Special Issue on the Adaptive Web, 31-33.

Brusilovsky, P. (2001). Adaptive hypermedia. *User Modeling and User Adapted Interaction*, 11 (1/2), 87-110, available online at <http://www.wkap.nl/oasis.htm/270983>.

Weber, G. and Brusilovsky, P. (2001) ELM-ART: An adaptive versatile system for Web-based instruction. In P. Brusilovsky and C. Peylo (eds.), *International Journal of Artificial Intelligence in Education*, 12 (4), 351-384.

De Bra, P., Brusilovsky, P., and Houben, G.-J. (1999) *Adaptive Hypermedia: From Systems to Framework*. *ACM Computing Survey*, 31 (4es).

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, 19-25.

Brusilovsky, P., Eklund, J., and Schwarz, E. (1998). Web-based education for all: A tool for developing adaptive courseware. *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.

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### **Edited workshop and conference proceedings**

- Sosnovsky, S., Brusilovsky, P., Baraniuk, R., and Lan, A. (eds.) (2021) Proceedings of the 3rd Workshop on Intelligent Textbooks at 22nd International Conference on Artificial Intelligence in Education (AIED 2021). CEUR Workshop Proceedings, Vol. 2895, CEUR.

- Brusilovsky, P., de Gemmis, M., Felfernig, A., Lops, P., O'Donovan, J., Semeraro, G., and Willemsen, M. C. (eds.) (2020) Proceedings of Joint Workshop on Interfaces and Human Decision Making for Recommender Systems (IntRS'20) at 2020 ACM Conference on Recommender Systems (RecSys'20). Vol. 2682, CEUR.
- Price, T., Brusilovsky, P., Hsiao, I.-H., Koedinger, K., and Shi, Y. (eds.) (2020) Proceedings of 4th Educational Data Mining in Computer Science Education (CSEDM) Workshop at the 13th Educational Data Mining Conference (EDM 2020). CEUR Workshop Proceeding, Vol. 2734, Cyberspace: CEUR.
- Sosnovsky, S., Brusilovsky, P., Baraniuk, R., and Lan, A. (eds.) (2020) Proceedings of the 2nd Workshop on Intelligent Textbooks at 21st International Conference on Artificial Intelligence in Education (AIED 2020).
- Brusilovsky, P., de Gemmis, M., Felfernig, A., Lops, P., O'Donovan, J., Semeraro, G., and Willemsen, M. C. (eds.) (2019) Proceedings of Joint Workshop on Interfaces and Human Decision Making for Recommender Systems (IntRS'19) at 2019 ACM Conference on Recommender Systems (RecSys'19). CEUR Workshop Proceeding, Vol. 2450, CEUR.
- Sosnovsky, S., Brusilovsky, P., Baraniuk, R., Agrawal, R., and Lan, A. (eds.) (2019) Proceedings of the First Workshop on Intelligent Textbooks at 20th International Conference on Artificial Intelligence in Education (AIED 2019). CEUR Workshop Proceedings, Vol. 2384, Chicago, USA: CEUR.
- Brusilovsky, P., de Gemmis, M., Felfernig, A., Lops, P., O'Donovan, J., Semeraro, G., and Willemsen, M. C. (eds.) (2018) Proceedings of Joint Workshop on Interfaces and Human Decision Making for Recommender Systems at 12th ACM Conference on Recommender Systems, Vancouver, Canada, CEUR Workshop Proceedings, Vol. 2225
- Brusilovsky, P., de Gemmis, M., Felfernig, A., Lops, P., O'Donovan, J., Tintarev, N., and Willemsen, M. C. (eds.) (2017) Proceedings of Joint Workshop on Interfaces and Human Decision Making for Recommender Systems at 11th ACM Conference on Recommender Systems. CEUR Workshop Proceedings, Vol. 1884, Como, Italy: CEUR.
- Dugan, C., Brusilovsky, P., and Daly, E. (eds.) (2017) Proceedings of The AWARE Workshop on Awareness Interfaces & Interactions at the 22nd International Conference on Intelligent User Interfaces, IUI 2017, Limassol, Cyprus.
- Brusilovsky, P., Felfernig, A., Lops, P., O'Donovan, J., Semeraro, G., Tintarev, N., and Willemsen, M. C. (2016) Proceedings of Joint Workshop on Interfaces and Human Decision Making for Recommender Systems at 10th ACM Conference on Recommender Systems. Boston, MA, USA, September 16, 2016.
- O'Donovan, J., Felfernig, A., Tintarev, N., Brusilovsky, P., Semeraro, G., and Lops, P. (eds.) (2015) Proceedings of the Joint Workshop on Interfaces and Human Decision Making for Recommender Systems co-located with ACM Conference on Recommender Systems (RecSys 2015). CEUR Workshop Proceedings, Vol. 1438, Vienna, Austria.
- Trattner, C., Parra, D., Brusilovsky, P., and Balby Marinho, L. (eds.) (2015) Proceedings of the International Workshop on Social Personalisation & Search co-located with the 38th Annual ACM SIGIR Conference (SIGIR 2015). CEUR Workshop Proceedings, Vol. 1421, Santiago de Chile, Chile
- Tintarev, N., O'Donovan, J., Brusilovsky, P., Felfernig, A., Semeraro, G., and Lops, P. (eds.) (2014) Proceedings of Joint Workshop on Interfaces and Human Decision Making for Recommender

Systems at ACM Conference on Recommender Systems, RecSys 2014. CEUR Workshop Proceedings, Vol. 1253.

Steichen, B., Ruotsalo, T., Agosti, M., Jacucci, G., Lawless, S., Brusilovsky, P., Wade, V., Kaski, S., and Barral, O. (eds.) (2014) Proceedings of Joint Workshop on Personalised Information Access (PIA 2014) at 22nd Conference on User Modeling, Adaptation and Personalization (UMAP 2014). Aalborg, Denmark: Springer Verlag.

Brusilovsky, P., Balby Marinho, L., Parra, D., Scheihing, E., and Trattner, C. (eds.) (2014) Proceedings of Social Personalisation Workshop (SP2014) co-located with the 27th 25th ACM Hypertext and Social Media Conference. CEUR Workshop Proceedings, Vol. 1210, Santiago de Chile, Chile.

Kazai, G., Landoni, M., Brusilovsky, P., and Eickhoff, C. (2012) Proceedings of the 5th ACM workshop on Research advances in Large Digital Book Repositories and Complementary Media (BooksOnline'12) at 21st ACM International Conference on Information and Knowledge Management (CIKM 2012). Maui, USA.

Cantador, I., Brusilovsky, P., and Kuflik, T. (eds.) (2011) Proceedings of the 2nd International Workshop on Information Heterogeneity and Fusion in Recommender Systems at the 5th ACM Conference on Recommender Systems, RecSys 2011, October 27, 2011. Chicago, USA.

Kazai, G., Eickhoff, C., and Brusilovsky, P. (2011) Proceedings of the 4th ACM workshop on Online books, complementary social media and crowdsourcing. Glasgow, UK: ACM Press.

Kazai, G. and Brusilovsky, P. (eds.) (2010) Proceedings of the 3rd Workshop on Research advances in large digital book repositories and complementary media (BooksOnline 2010) at the 19th ACM International Conference on Information and Knowledge Management, CIKM 2010, October 26, 2010. Toronto, Canada.

Brusilovsky, P., Cantador, I., Koren, Y., Kuflik, T., and Weimer, M. (eds.) (2010) Proceedings of the International Workshop on Information Heterogeneity and Fusion in Recommender Systems at the 4th ACM Conference on Recommender Systems, RecSys 2010, September 30, 2010. Barcelona, Spain.

Goldin, I., Brusilovsky, P., Schunn, C. D., Ashley, K., and Hsiao, I.-H. (eds.) (2010) Proceedings of the Workshop on Computer-Supported Peer Review in Education (CSPRED) at the Tenth International Conference on Intelligent Tutoring Systems, ITS 2010, June 14, 2010, Pittsburgh, PA.

Brusilovsky, P., Grigoriadou, M., and Papanikolaou, K. (eds.) (2007) Proceedings of the Workshop on Personalization in E-learning Environments at Individual and Group Level at the 11th International Conference on User Modeling, UM 2007, June 25, 2007. Corfu, Greece.

Brusilovsky, P., J. Dron and J. Kurhila, Eds. (2006). Proceedings of the Workshop on the Social Navigation and Community-Based Adaptation Technologies (SNC-BAT 2006) at the 4th International Conference on Adaptive Hypermedia and Adaptive Web-based Systems, June 20th, 2006. Dublin, Ireland.

Brusilovsky, P., C. Callaway and A. Nürnberger, Eds. (2005). Proceedings of the Workshop on New Technologies for Personalized Information Access (PIA 2005) at the 10th Int. Conf. on User Modeling (UM'05), July 24-25, 2005, Edinburgh, UK.

Brusilovsky, P., R. Conejo and E. Millán, Eds. (2005). Proceedings of 2nd Workshop on Adaptive Systems for Web-based Education, WASWBE 2005, at 12th International Conference on Artificial Intelligence in Education (AIED'2005), July 18, 2005, Amsterdam, the Netherlands.

Brusilovsky, P., Henze, N., and Millán, E. (eds.) (2002) Proceedings of the workshop on Adaptive Systems for Web-Based Education at the 2nd International Conference on Adaptive Hypermedia

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Brusilovsky, P. and De Bra, P. (eds.) (1999) Proceedings of the Second Workshop on Adaptive Systems and User Modeling on WWW at 8th International World Wide Web Conference and 7-th International Conference on User Modeling. *Computer Science Report # 99-07*, Eindhoven University of Technology. <http://www.wis.win.tue.nl/asum99/contents.html>

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Brusilovsky, P., Fink, J., and Kay, J. (eds.) (1997) Proceedings of the Workshop "Adaptive Systems and User Modeling on the World Wide Web" at 6th International Conference on User Modeling, UM97. Carnegie Mellon Online. [http://www.contrib.andrew.cmu.edu/~plb/UM97\\_workshop/](http://www.contrib.andrew.cmu.edu/~plb/UM97_workshop/)

Brusilovsky, P. (Ed.) (1994) Proceedings of East-West International Conference on Multimedia, Hypermedia and Virtual Reality, Moscow, Russia, Sept. 14-16, 1994. ICSTI, Moscow.

Brusilovsky, P., Dikareva, S., Greer, J., and Petrushin, V. (Eds.) (1994) Proceedings of 3-rd East-West Conference on Computer Technologies in Education (EW-ED'94). Crimea, Ukraine, September 1994.

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.

## **VIII University and School Service**

### **School and Program Service**

Chair, Graduate Information Science and Technology program (2013-2016)

SIS Council Member (2008-2010)

DIST and GIST Curriculum Committee Chair (2004-2013)

Digital Libraries Colloquium Chair (2001-2013)

DIST and GIST PhD Committee Member (2000-Current)

MSIS Admission Committee (2000-2004)

### **Service to the University of Pittsburgh**

Member, Advisory Council on Instructional Excellence (2006-2010)

## **IX Professional Service**

### **Professional Societies**

User Modeling, Inc. (Former President)

Association for Computing Machinery,

- Special Interest Group on Hypertext, Hypermedia and the Web (Executive Committee Member since 2009, Executive Committee Chair since 2019)
- Special Interest Group on Computer Human Interaction
- Special Interest Group on Computer Science Education

Institute of Electrical and Electronics Engineers

- Computer Society
- Educational Society

International Artificial Intelligence in Education Society (Former Executive Committee Member)

### **Editorial work**

*Current:*

International Journal of Artificial Intelligence in Education (Editorial board) Since 2015

ACM Transactions on Social Computing (Founding Associate Editor), Since 2016

ACM Transactions on Interactive Intelligent Systems (Associate Editor) – Since 2020

User Modeling and User-Adapted Interaction, Springer Verlag (Editorial Board)

New Review of Hypermedia and Multimedia, Taylor Francis (Editorial Board)

The Journal of Universal Computer Science, (Board of Editors)

*Past:*

Editor-in-Chief, IEEE Transactions on Learning Technologies (2013-2018)

International Journal on Digital Libraries, Springer (Editorial Board) 2011-2018

Associate Editor-in-Chief, IEEE Transactions on Learning Technologies (2008-2012)

Co-Editor: Technology, Instruction, Cognition and Learning, OCP Science Publishers (2005-2007)

International Journal on E-Learning, AACE (Editorial Board, retired in 2015)

Web Intelligence and Agent Systems, IOS Press (Editorial Board, retired in 2015)

ACM Transactions on the Web (Founding Associate Editor, retired in April 2013)

Computers in Human Behavior, Pergamon Press (Editorial Board – Retired in 2008)

### **Guest Editor**

Guest editor: Special issue of *User Modeling and User-Adapted Interaction* on Social Personalization (2013)

Guest editor: Special issue of *The New Review of Hypermedia and Multimedia* on Adaptive Hypermedia (Spring 2009)

Guest Editor: Special Issue of *ACM Journal on Educational Resources in Computing* on Automated Assessment of Programming Assignments (Fall 2005)

Guest editor: Special issue of *The New Review of Hypermedia and Multimedia* on Adaptive Hypermedia and the Adaptive Web (Fall 2004)

Guest editor: Special issue of *User Modeling and User-Adapted Interaction* on Adaptive Web Information Retrieval (2004)

Guest editor: Special issue of the *Communications of the ACM* on Adaptive Web (May 2002)

Guest editor: Special issue of *International Journal of Artificial Intelligence in Education* on Adaptive and Intelligent Web-based Educational Systems (Fall 2001 – Spring 2003)

Guest editor: Special issue of *The New Review of Hypermedia and Multimedia* on Adaptive Hypermedia (Fall 1998)

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

### **Program Committees for International Conferences:**

- 2021 15th ACM Conference on Recommender Systems, RecSys 2021 (the Netherlands)
- 2021 29th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2020 (the Netherlands)
- 2021 26th ACM Annual Conference on Intelligent User Interfaces, IUI 2020 (USA)
- 2020 14th ACM Conference on Recommender Systems, RecSys 2020 (Brazil)
- 2020 28th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2020 (Italy)
- 2020 The Web Conference, WWW 2020 (Taiwan)
- 2020 25th ACM Annual Conference on Intelligent User Interfaces, IUI 2020 (Italy)
- 2019 13th ACM Conference on Recommender Systems, RecSys 2019 **Program Co-Chair** (Denmark)
- 2019 Twelfth International Conference on Educational Data Mining, EDM 2019 (Canada)
- 2019 27th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2019 (Cyprus)
- 2019 The Web Conference, WWW 2019 (USA)
- 2019 24rd ACM Annual Conference on Intelligent User Interfaces, IUI 2019 (USA)
- 2018 12th ACM Conference on Recommender Systems, RecSys 2018 (Canada)
- 2018 26th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2018, (Singapore) **Track Chair**
- 2018 23rd ACM Annual Conference on Intelligent User Interfaces, IUI 2018 (Japan)
- 2017 11th ACM Conference on Recommender Systems, RecSys 2017 (Italy)
- 2017 25th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2017 (Slovakia) **Track Chair**
- 2017 27th International World Wide Web Conference, WWW 2017 (Australia)
- 2017 22nd ACM Annual Conference on Intelligent User Interfaces, IUI 2017 (Cyprus) **Student Consortium Chair**
- 2016 10th ACM Conference on Recommender Systems, RecSys 2016 (USA)
- 2016 24th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2016, (Canada)
- 2016 27th ACM Conference on Hypertext and Social Media, Hypertext 2016 (Canada)
- 2016 25th International World Wide Web Conference, WWW 2016 (Canada)
- 2016 Learning Analytics and Knowledge, LAK 2016 (UK)

- 2016 21st ACM Annual Conference on Intelligent User Interfaces, IUI 2016 (USA)
- 2016 1st ACM Conference on Human Information Interaction and Retrieval (CHIIR 2016)
- 2015 9th ACM Conference on Recommender Systems, RecSys 2015 (Austria)
- 2015 9th European Conference on Technology Enhanced Learning, ECTEL 2015 (Spain)
- 2015 26<sup>th</sup> ACM Conference on Hypertext and Social Media, Hypertext 2015 (Cyprus)
- 2015 23rd International Conference on User Modeling, Adaptation, and Personalization, UMAP 2015 (Ireland)
- 2015 17th International Conference on Artificial Intelligence in Education, AIED 2015 (Spain)
- 2015 24 International World Wide Web Conference, WWW 2015 (Italy)
- 2015 Learning Analytics and Knowledge, LAK 2015 (USA)
- 2014 8th European Conference on Technology Enhanced Learning, ECTEL 2014 (Austria)
- 2014 25<sup>th</sup> ACM Conference on Hypertext and Social Media, Hypertext 2014 (Chile)
- 2014 22nd International Conference on User Modeling, Adaptation, and Personalization, UMAP 2012 (Denmark)
- 2014 12th International Conference on Intelligent Tutoring Systems, ITS 2014 (USA)
- 2014 Learning Analytics and Knowledge, LAK 2014 (USA)
- 2014 23 International World Wide Web Conference, WWW 2014 (Korea)
- 2013 7th ACM Conference on Recommender Systems, RecSys 2013 (China)
- 2013 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2013 (USA)
- 2013 I-Know 2013 (Austria)
- 2013 8th European Conference on Technology Enhanced Learning, ECTEL 2013 (Cyprus)
- 2013 16th International Conference on Artificial Intelligence in Education, AIED 2013 (USA)
- 2013 21st International Conference on User Modeling, Adaptation, and Personalization, UMAP 2013 (Italy)
- 2013 24th ACM Conference on Hypertext and Social Media, Hypertext 2013 (France)
- 2013 22 International World Wide Web Conference, WWW 2013 (Brazil)
- 2013 iConference 2013 (USA)
- 2013 Learning Analytics and Knowledge, LAK 2013 (Belgium)
- 2012 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2012 (Macau)
- 2012 6th ACM Conference on Recommender Systems, RecSys 2012 (Ireland)
- 2012 7th European Conference on Technology Enhanced Learning, ECTEL 2012 (Germany)
- 2012 20th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2012 (Canada)
- 2012 23<sup>rd</sup> ACM Conference on Hypertext and Social Media, Hypertext 2012 (USA)
- 2012 11th International Conference on Intelligent Tutoring Systems, ITS 2012 (Greece)
- 2012 Learning Analytics and Knowledge 2012, Canada
- 2012 21st International World Wide Web Conference, WWW 2012 (France)
- 2011 10th Mexican International Conference on Artificial Intelligence. MICA I 2011
- 2011 5th ACM Conference on Recommender Systems, RecSys 2011 (USA)
- 2011 6th European Conference on Technology Enhanced Learning, ECTEL 2011 (Italy)
- 2011 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2011 (France)

- 2011 19th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2011 (Spain)
- 2011 15th International Conference on Artificial Intelligence in Education, AIED 2011 (New Zealand)
- 2011 22nd ACM Hypertext Conference, Hypertext 2011 (The Netherlands) **Track Chair**
- 2011 20th International World Wide Web Conference (India)
- 2010 ACM 19th Conference on Information and Knowledge Management, CIKM 2010 (Canada)
- 2010 5th European Conference on Technology Enhanced Learning, ECTEL 2010 (Spain)
- 2010 4th International ACM Conference on Recommender Systems, RecSys 2010 (Spain)
- 2010 IEEE/WIC/ACM International Conference on Web Intelligence (Canada)
- 2010 6th International Conference on Collaborative Computing, CollaborateCom 2010 (USA)
- 2010 33rd Annual ACM SIGIR Conference (Switzerland)
- 2010 18th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2010 (USA)
- 2010 21th ACM Conference on Hypertext and Hypermedia, Hypertext 2010 (Canada)
- 2010 10th International Conference on Intelligent Tutoring Systems, ITS 2010 (USA)
- 2010 Adaptivity, Personalization and Fusion of Heterogeneous Information, RIAO 2010 (France)
- 2009 4th European Conference on Technology Enhanced Learning, ECTEL 2009 (France)
- 2009 3rd International ACM Conference on Recommender Systems, RecSys 2009 (USA)
- 2009 IEEE/WIC/ACM International Conference on Web Intelligence (Italy)
- 2009 ACM 18th Conference on Information and Knowledge Management, CIKM 2009 (China)
- 2009 World Conference on E-Learning, E-Learn 2009 (USA)
- 2009 14th International Conference on Artificial Intelligence in Education, AIED 2009 (UK)
- 2009 17th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2009 (Italy) **Industrial Track Chair**
- 2009 20th ACM Conference on Hypertext and Hypermedia, Hypertext 2009 (Italy) **Track Chair**
- 2008 IEEE/WIC/ACM International Conference on Web Intelligence (Australia)
- 2008 2nd International ACM Conference on Recommender Systems, RecSys 2008 (Switzerland)
- 2008 ACM 17th Conference on Information and Knowledge Management, CIKM 2008 (USA)
- 2008 World Conference on E-Learning, E-Learn 2008 (USA)
- 2008 3rd European Conference on Technology Enhanced Learning, ECTEL 2008 (the Netherlands)
- 2008 5th International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems, AH 2008 (Germany)
- 2008 The 17th International World Wide Web Conference (Canada)
- 2008 International Working Conference on Advanced Visual Interfaces, AVI'2008 (Italy)
- 2008 9th International Conference on Intelligent Tutoring Systems, ITS'2008 (Canada)
- 2008 34th International Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2008 (Slovakia)
- 2007 IEEE/WIC/ACM International Conference on Web Intelligence, WI-07 (USA)

- 2007 ACM Sixteenth Conference on Information and Knowledge Management, CIKM 2007 (Portugal)
- 2007 World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education, E-Learn 2007 (Canada)
- 2007 ACM Recommender Systems conference, RecSys 2007 (USA)
- 2007 2nd European Conference on Technology Enhanced Learning, ECTEL 2007 (Greece)
- 2007 18th ACM Conference on Hypertext and Hypermedia, Hypertext 2007 (UK)
- 2007 13th International Conference on Artificial Intelligence in Education, AIED 2007 (USA)
- 2007 The 11th International Conference on User Modeling, UM'07 (Greece)
- 2007 The 16th International World Wide Web Conference (Canada)
- 2006 IEEE/WIC/ACM International Conference on Web Intelligence, WI-06 (Hong Kong)
- 2006 ACM 15th Conference in Information and Knowledge Management, CIKM 2006 (USA)
- 2006 First European Conference on Technology Enhanced Learning (Greece)
- 2006 World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education, E-Learn 2006 (USA)
- 2006 8th International Conference on Intelligent Tutoring Systems, ITS'2006 (Taiwan)
- 2006 4th International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (Ireland)
- 2006 The 15th International World Wide Web Conference (UK)
- 2006 International Working Conference on Advanced Visual Interfaces, AVI'2006, Italy
- 2005 World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education, E-Learn 2005 (Canada)
- 2005 Net-Based Education (Formerly PEG) (Finland)
- 2005 IADIS International conference WWW/Internet 2005, ICWI 2005 (Portugal)
- 2005 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2005 (France)
- 2005 The 14th International World Wide Web Conference (Japan)
- 2005 12th International Conference on Artificial Intelligence in Education, AI-ED'2005, (the Netherlands)
- 2005 The 10th International Conference on User Modeling, UM'05 (U.K.)
- 2004 World Conference on Educational Multimedia, Hypermedia, and Telecommunications, ED-MEDIA'2005 (Canada)
- 2004 The 3rd International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems, AH'2004 (the Netherlands)
- 2004 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2004 (China), **Vice Chair of PC**
- 2004 The 15th ACM Conference on Hypertext and Hypermedia, Hypertext'04 (USA)
- 2004 7th International Conference on Intelligent Tutoring Systems, ITS'2004 (Brazil)
- 2004 IADIS International Conference WWW/Internet, ICWI'04 (Spain)
- 2004 World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education, E-Learn 2004 (USA)
- 2004 3rd International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (the Netherlands)

- 2004 World Conference on Educational Multimedia, Hypermedia, and Telecommunications, EDMEDIA'2004 (Switzerland)
- 2004 The 13th International World Wide Web Conference (USA), **Co-Chair of Educational Track**
- 2004 7th International Working Conference on Advanced Visual Interfaces, AVI'2004 (Italy)
- 2003 IADIS International Conference WWW/Internet 2003, ICWI'03 (Portugal)
- 2003 World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education, E-Learn 2003 (USA)
- 2003 The Fourteenth ACM Conference on Hypertext and Hypermedia, Hypertext'03 (UK)
- 2003 The Twelfth International World Wide Web Conference (Hungary)
- 2003 Fourth International Conference on Intelligent Text Processing and Computational Linguistics, CICLing'2003 (Mexico)
- 2003 The Eleventh International PEG Conference (Russia)
- 2002 World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education, E-Learn'02 (Canada)
- 2002 IADIS International Conference WWW/Internet 2002, ICWI'02 (Portugal)
- 2002 Fifth Joint Conference on Knowledge-Based Software Engineering, JCKBSE'02 (Slovenia)
- 2002 First International Conference on Educational Technology in Cultural Context (Finland)
- 2002 Advanced Visual Interfaces, AVI 2002 (Italy)
- 2002 International Symposium: Technology of Information and Communication in Education for Engineering, TICE'2002 (France)
- 2002 International Conference on Advanced Learning Technologies, ICALT'02 (Russia)
- 2002 World Conference on Educational Multimedia, Hypermedia, and Telecommunications, EDMEDIA'2002 (USA)
- 2002 Third International Conference on Intelligent Text Processing and Computational Linguistics, CICLing'2002 (Mexico)
- 2001 Euro Web' 2001 Conference "The Web in Public Administration" (Italy)
- 2001 World Conference on the WWW and Internet, WebNet'2001 (USA)
- 2001 9th International Conference on Computers in Education ICCE'2001 (Korea)
- 2001 10<sup>th</sup> International PEG Conference (Finland)
- 2001 The 8th International Conference on User Modeling, UM'01 (Germany)
- 2001 The 2001 Symposium on Applications and the Internet, SAINT'2001 (USA)
- 2001 World Conference on Educational Multimedia, Hypermedia, and Telecommunications, EDMEDIA'2001 (Finland)
- 2001 Second International Conference on Intelligent Text Processing and Computational Linguistics, CICLing'2001 (Mexico)
- 2000 International Conference on Adaptive Hypermedia and Adaptive Web-based Systems, AH'2000 (Italy), **Program Chair**
- 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, EDMEDIA'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)
- 2000 International Symposium on Technologies of Information and Communication in Education for engineering and industry, TICE'2000 (France)
- 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 4th 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, AIMS'A'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)**

- 2021 5th Educational Data Mining in Computer Science Education (CSEDM) Workshop at the 14th Educational Data Mining Conference (EDM 2021), **Co-organizer**
- 2021 3rd Workshop on Intelligent Textbooks at 22nd International Conference on Artificial Intelligence in Education (AIED 2021) **Co-organizer**
- 2021 Seventh SPLICE Workshop at ACM SIGCSE 2021, March 15-16: "CS Education Infrastructure for All III: From Ideas to Practice", **Co-organizer**
- 2020 Joint Workshop on Interfaces and Human Decision Making for Recommender Systems at 2020 ACM Conference on Recommender Systems (RecSys'20), **Co-organizer**
- 2020 Sixth SPLICE Workshop at ACM Learning at Scale (L@S) 2020, August 12, 2020: "Building an Infrastructure for Computer Science Education Research and Practice at Scale", **Co-organizer**
- 2020 4th Educational Data Mining in Computer Science Education (CSEDM) Workshop at the 13th Educational Data Mining Conference (EDM 2020), **Co-organizer**
- 2020 2nd Workshop on Intelligent Textbooks at 21st International Conference on Artificial Intelligence in Education (AIED 2020), **Co-organizer**
- 2019 Joint Workshop on Interfaces and Human Decision Making for Recommender Systems at 2019 ACM Conference on Recommender Systems (RecSys'19), **Co-organizer**
- 2019 Fifth SPLICE Workshop at ACM International Conference on Computing Education Research (ICER 2019), August 11, 2019, Toronto: "Computing Science Education Infrastructure: From Tools to Data", **Co-organizer**
- 2019 First Workshop on Intelligent Textbooks at 20th International Conference on Artificial Intelligence in Education (AIED 2019), **Co-organizer**
- 2019 Fourth SPLICE Workshop at ACM SIGCSE 2019, February 2019, Minneapolis, MN: "CS Education Infrastructure for All II: Enabling the Change", **Co-organizer**
- 2018 Joint Workshop on Interfaces and Human Decision Making for Recommender Systems at 12th ACM Conference on Recommender Systems, **Co-organizer**
- 2018 Third SPLICE Workshop at ACM International Conference on Computing Education Research (ICER 2018), August 2018, Espoo, Finland: "Computing Science Educational Infrastructure: Crossing the Borders", **Co-organizer**
- 2018 Second SPLICE Workshop at ACM SIGCSE 2018, February 2018, Baltimore MD: "CS Education Infrastructure for All: Interoperability for Tools and Data Analytics"
- 2017 Joint Workshop on Interfaces and Human Decision Making for Recommender Systems at 11th ACM Conference on Recommender Systems (RecSys 2017), **Co-organizer**

- 2017 First SPLICE Workshop, June 2017, Pittsburgh PA "Community-building or data-intensive computer and computing science education infrastructure research", **Co-organizer**
- 2017 Proceedings of The AWARE Workshop on Awareness Interfaces & Interactions at the 22nd International Conference on Intelligent User Interfaces (IUI 2017), **Co-organizer**
- 2016 Joint Workshop on Interfaces and Human Decision Making for Recommender Systems at 10th ACM Conference on Recommender Systems (RecSys 2016), **Co-organizer**
- 2015 Joint Workshop on Interfaces and Human Decision Making for Recommender Systems co-located with ACM Conference on Recommender Systems (RecSys 2015). **Co-organizer**
- 2015 International Workshop on Social Personalization & Search at the 38th Annual ACM SIGIR Conference (SIGIR 2015). **Co-organizer**
- 2014 Joint Workshop on Interfaces and Human Decision Making for Recommender Systems at ACM Conference on Recommender Systems, RecSys 2014 **Co-organizer**
- 2014 Joint Workshop on Personalised Information Access (PIA 2014) at 22nd Conference on User Modeling, Adaptation and Personalization (UMAP 2014). **Co-organizer**
- 2012 5<sup>th</sup> ACM workshop on Research advances in Large Digital Book Repositories and Complementary Media (BooksOnline'12) at 21st ACM International Conference on Information and Knowledge Management (CIKM 2012), **Co-organizer**
- 2011 19th International Conference on User Modeling, Adaptation, and Personalization, UMAP 2011 (Spain), **Doctoral Consortium Co-chair**
- 2011 15th International Conference on Artificial Intelligence in Education (New Zealand), **Publicity co-chair**
- 2011 2nd International Workshop on Information Heterogeneity and Fusion in Recommender Systems at the 5th ACM Conference on Recommender Systems, RecSys 2011 **Co-organizer**
- 2011 4th ACM workshop on Online books, complementary social media and crowdsourcing. Glasgow, UK: ACM Press. **Co-organizer**
- 2010 International Workshop on Information Heterogeneity and Fusion in Recommender Systems at the 4th ACM Conference on Recommender Systems, **Co-organizer**
- 2010 BooksOnline'10 Workshop: 3rd Workshop on Research Advances in Large Digital Book Collections at CIKM 2010, **Co-organizer**
- 2010 Workshop on Computer-Supported Peer Review in Education (CSPRED) at the Tenth International Conference on Intelligent Tutoring Systems, ITS 2010, **Co-organizer**
- 2009 BooksOnline'09 Workshop: 2nd Workshop on Research Advances in Large Digital Book Collections at ECDL 2009, **Co-organizer**
- 2008 The Nineteenth ACM Conference on Hypertext and Hypermedia (USA), General Chair**
- 2008 9th International Conference on Intelligent Tutoring Systems, ITS'2006 (Canada), **Workshop and Tutorial Co-Chair**
- 2007 Workshop on Personalisation in e-Learning Environments at Individual and Group Level was held at the 11th International Conference on User Modeling, Co-organizer
- 2006 4th International Conference on Adaptive Hypermedia and Adaptive Web-based Systems, AH'2006 (Ireland), **DC Co-Chair**
- 2006 Workshop on the Social Navigation and Community-Based Adaptation Technologies at the 4th International Conference on Adaptive Hypermedia and Adaptive Web-based Systems, Ireland, Primary organizer

- 2005 Workshop on Personalized Information Access at 10th International Conference on User Modeling, UM'2005, Primary organizer
- 2005 Workshop on Adaptive Systems for Web-Based Education at the AIED'2005 conference, Amsterdam, the Netherlands, Primary organizer
- 2004 3rd International Conference on Adaptive Hypermedia and Adaptive Web-based Systems, AH'2004 (the Netherlands), **DC Co-Chair**
- 2003 The 9th International Conference on User Modeling, UM'2003 (US), General Chair**
- 2002 2<sup>nd</sup> International Conference on Adaptive Hypermedia and Adaptive Web-based Systems, AH'2002 (Spain), General Chair**
- 2002 Workshop on Adaptive Systems for Web-Based Education at the 2nd International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (AH'2002) Spain, Primary organizer
- 2001 Third Workshop on Adaptive hypertext and hypermedia at the 8th International Conference on User Modeling, UM'01 (Sonthofen, Germany) and 12th ACM International Hypertext Conference, Hypertext'01 (Aarhus, Denmark)
- 2001 The 10th International Conference on Artificial Intelligence in Education, San Antonio, Texas. **Publicity Chair**
- 2000 Workshop on Adaptive and Intelligent Web-based Education Systems at The Fifth International Conference on Intelligent Tutoring Systems, ITS'2000, Montréal, Canada
- 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)

### **Invited talks and some presentations at other institutions**

The return of Intelligent Textbooks, Keynote at 17th International Conference on Intelligent Tutoring Systems, ITS 2021, Athens, Greece (Virtual), June 7-11 2021

Interfaces for User-Controlled and Transparent Recommendations, Keynote at the Workshop on Fairness in User Modeling, Adaptation and Personalization (FairUMAP 2019) at 27th ACM Conference on User Modeling, Adaptation and Personalization, UMAP 2019, Larnaca, Cyprus

From Expert-Driven to Data-Driven Adaptive Learning Peter Brusilovsky, Keynote at the Workshop on Advancing Education with Data at the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Halifax, NS, Canada, Aug 14, 2017

Intelligent Interfaces for Open Social Student Modeling. Keynote at the 2017 ACM Workshop on Intelligent Interfaces for Ubiquitous and Smart Learning at IUI'2017, Limassol, Cyprus

Personalization in the Context of Relevance-Based Visualization, Keynote at the 2017 ACM Workshop on Exploratory Search and Interactive Data Analytics at IUI'2017, Limassol, Cyprus

Data-Driven Education: Using Learners' Data to Improve Teaching and Learning. Keynote at 15th International Conference on Web-Based Learning, ICWL 2016, Rome, Italy, October 26–29.

“Addictive Links: Engaging Students through Adaptive Navigation Support and Open Social Student Modeling” Keynote talk at WWW 2014 Workshop on Web-based Education Technologies, Seoul, Korea, April 8, 2014

“Addictive links: From Adaptive Navigation Support to Open Social Student Modeling”, Tel-Aviv University, Feb 24, 2014

“Addictive links: From Adaptive Navigation Support to Open Social Student Modeling”, Arizona State U, Dec 12, 2013

“The other side of the social web: a taxonomy for social information access”, Keynote talk at the 18th Brazilian symposium on Multimedia and the web, Sao Paulo, Brazil, 2012

“Beyond the Ranked List: Visual Presentation of Recommended Items”. TU Delft, the Netherlands, Oct. 28, 2013

“The Power of Known Peers: A Study in Two Domains”, Keynote talk at the 3rd International Workshop on Social Recommender Systems In conjunction with UMAP, Montreal, Canada, July 17, 2012

“Addictive Links: Long-Term Evaluation of Adaptive Navigation Support”, Keynote talk at Knowledge Engineering Systems - Intelligent Interactive Multimedia Systems and Services (KES-IIMSS 2011), Piraeus, Greece, July 20, 2011

“The User Side of Personalization: How Personalization Affects the Users”. Invited talk at UMAP 2010 Workshop on Intelligent Techniques for Web Personalization, Big Island of Hawaii, USA, June 20, 2010

“Addictive links: Adaptive Navigation Support in College-Level Courses”. Invited talk at ITEC 2010, 1st International Conference on Interdisciplinary Research on Technology, Education and Communication, Kortrijk, Belgium, May 25, 2010

“Social Information Access: The Other Side of the Social Web”. A colloquium talk at Human Computer Interaction Institute, Carnegie Mellon University, March 3, 2010

“Social Information Access: The Other Side of the Social Web”. A colloquium talk at the University of Turin, Italy, July 2, 2009.

“Adaptive Navigation Support for Open Corpus Hypermedia Systems”. Invited talk at the 5th International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (AH'2008), Hannover, Germany, July 29, 2008

“Social Information Access: The Other Side of the Social Web”. Invited talk at SOFSEM 2008, 34th International Conference on Current Trends in Theory and Practice of Computer Science, High Tatras, Slovakia, January 22, 2008.

“Addictive Links: The Motivational Value of Adaptive Link Annotation”. A colloquium talk at Bowling Green State University, OH, November 30, 2006.

“Addictive Links: The Motivational Value of Adaptive Link Annotation”. A colloquium talk at Human Computer Interaction Institute, Carnegie Mellon University, November 8, 2006.

“Adaptive Information Access: An Integrated Prospect” an invited talk at IJCAI'05 Workshop on Intelligent Techniques for Web Personalization, Edinburgh, U.K., August 1, 2005

“Learning by Doing with Interactive Learning Objects”, a talk at AERA'2005 conference, April 13, 2005

“Personalized access to information with social navigation support” A colloquium talk at Human Computer Interaction Institute, Carnegie Mellon University, March 2, 2005

“From Adaptive Hypermedia to the Adaptive Web”. A colloquium talk at the Department of Computer Information Systems, Robinson College of Business, Georgia State University, November 12, 2004

“Adaptive Educational Hypermedia: From generation to generation”. Invited talk presented at 4th Hellenic Conference on Information and Communication Technologies in Education, Athens, Greece, September 30, 2004

“E-Learning in the New Millennium” a talk at the National College of Ireland Day of Learning. Dublin, Ireland, April 30, 2004

“From Adaptive Hypermedia to the Adaptive Web”, National College of Ireland, Dublin, Ireland, April 27, 2004

“Helping teachers to author adaptive hypermedia courseware: a compilation approach”, a talk at AERA’2004 conference, April 15, 2004

“From Adaptive Hypermedia to the Adaptive Web and Beyond”, Invited talk presented at the Italian Human-Computer Interaction Conference HCITALY 2003, Turin, Italy, November 4, 2003

“From Adaptive Hypermedia to the Adaptive Web”, Invited talk presented at German Human-Computer Interaction Conference Mensch und Computer, 2003, Stuttgart, Germany, September 8, 2003

“From Adaptive Hypermedia to the Adaptive Web”, Invited talk presented at the IASTED International Conference WWW/Internet 2002, Lisbon, Portugal, November 13, 2002

“Information maps and landmarks as an interface to explore Web resources”, Human Computer Interaction Institute, Carnegie Mellon University, September 18, 2002

“Towards next generation Web-based educational systems: An architecture based on adaptive reusable learning activities”, Tampere University of Technology, Finland, August 15, 2002.

“Towards next generation Web-based educational systems: An architecture based on adaptive reusable learning activities”, Free University of Bolzano, Italy, July 17, 2002.

“Adaptive Hypermedia: Ten Years of Research”, Opening address at the 3<sup>rd</sup> Workshop on Adaptive Hypermedia, Sonthofen, July 14, 2001

“Adaptive Web-based Systems”, Universität Freiburg, Germany, July 10, 2001

“Adaptive Educational Hypermedia”, Invited talk presented at the Tenth International PEG conference, Tampere, Finland, June 24, 2001

“ADAPTS: an adaptive performance support system”, Human Computer Interaction Institute, Carnegie Mellon University, December 6, 2000

“Adaptive Hypermedia: From Intelligent Tutoring Systems to Web-Based Education”, Invited plenary address presented at The Fifth International Conference on Intelligent Tutoring Systems, ITS’2000, Montréal, Canada, June 23, 2000

“Adaptive Web-based Systems”, Universidad Autónoma de Madrid, Spain, June 1, 2000

“Adaptive Web-based Systems”, Universidad de Málaga, Spain, June 6, 2000

“Adaptive Educational Hypermedia for Web-based Education”, Department of Education, University of California, Irvine, CA, April 11, 2000

“Adaptive Hypermedia: State of the Art and Prospects”, Department of Information and Computer Sciences, University of Hawaii at Manoa, NY, October 28, 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, Germany, 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 Enhanced 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

## **X Student Advising**

### **Graduated PhD Students**

Roya Hosseini (2018)

Yun Huang (2018) Universidad Austral de Chile

Julio Guerra (2017) Assistant Professor, Universidad Austral de Chile

Shaghayegh Sahebi (2016) Assistant Professor, University of Albany, SUNY

Chirayu Wongchokprasitti (2015) DBMI, University of Pittsburgh

Denis Parra (2013) Assistant Professor, Pontificia Universidad Católica de Chile

Yiling Lin (2013) Assistant Professor, Department of Information Management, National Sun Yat-Sen University, Taiwan

Hyunsook Lee (2013) Assistant Professor, Sangmyung University, Korea

I-Han Hsiao (2012) Assistant Professor, Arizona State University

Sergey Sosnovsky (2011) Assistant Professor, Utrecht University, the Netherlands

Jaewook Ahn (2010) Research Scientist, IBM

Michael Yudelson (2010) Senior Research Scientist, ACT Inc.

Rosta Farzan (2009) Associate Professor, University of Pittsburgh

Maria Harrington (2008) Assistant Professor, University of Central Florida.

### **Currently Advised PhD Students**

Chun Hua Tsai

Jordan Barria-Pineda

Hung Chau Kim

Lorin Gieve

Saba Dadsetan

Kamil Akhuseyinoglu

Khushboo Thaker

Behnam Rahdari

### **Ph.D. Dissertation Committees**

Mikhail Epiktetov, Moscow State University, 1993

Miguel Encarnação, Universität Tübingen, Germany, 1997

Licia Calvi, Universiteit Antwerpen, Belgium, 1998

Eva Millán, Universidad de Málaga, Spain, 2000

Judith Thomson, University of Saskatchewan, Canada, 2000

Hari Ketamo, Tampere University of Technology, Finland, 2002

Hongjing Wu, Eindhoven University of Technology, the Netherlands, 2002  
Jaakko Kurhila, Helsinki University of Technology, Finland, 2003  
Siripun Sanguastikul, University of Pittsburgh. 2003  
Molly Sorrows, University of Pittsburgh. 2004  
Chad Lane, University of Pittsburgh, 2004  
Nobory Matsuda, University of Pittsburgh, 2004  
Denis Nkweteim, University of Pittsburgh, 2005  
Stephen Hughes, University of Pittsburgh, 2005  
Thomas Scanlon, Robert Morris University, 2006  
Sam Holden, University of Sydney, Australia, 2006  
Jill Freyne, University College Dublin, Ireland, 2006  
Ibrahim Turan, University of Pittsburgh, 2007  
Nilufar Baghaei, University of Canterbury, New Zealand, 2007  
Natalia Stash, Eindhoven University of Technology, the Netherlands, 2007  
Jeffrey Jacobson, University of Pittsburgh, 2008  
Ming Mao, University of Pittsburgh, 2008  
Worasit Choochaiwattana, University of Pittsburgh, 2008  
Orla Lahart, Trinity College, Ireland 2009  
Ekaterina Vasiljeva, University of Yuvaskula, Finland, 2009  
Min Chi, University of Pittsburgh, 2009  
Samwith Srinivas, University of Pittsburgh, 2010  
William Love, University of Pittsburgh, 2010  
Ilya Goldin, University of Pittsburgh, 2011  
Sue Syn, University of Pittsburgh, 2011  
Jacek Jankowski, National University of Ireland, Galway 2011  
Fedor Bakalov, University of Jena, Germany, 2012  
Amali Weerasinghe, University of Canterbury, New Zealand, 2012  
Qi Gao, TU Delft, the Netherlands, 2013  
Jonathan Grady, University of Pittsburgh, 2013  
Tomek Loboda, University of Pittsburgh 2014  
Zhen Yue, University of Pittsburgh 2014  
Juha Helminen, Aalto University, 2014  
Amirreza Masoumzaeh, University of Pittsburgh, 2014  
Charles Grindle, University of Pittsburgh, 2014  
Claudia Lopez, University of Pittsburgh, 2015  
Jiepu Jiang, University of Pittsburgh, 2016  
Xiang Xiao, University of Pittsburgh, 2016  
Debjanee Barua, University of Sydney 2016

Shih-Yi Chien, University of Pittsburgh 2016

Shuguang Han, University of Pittsburgh 2017

Jiří Řihák, Masaryk University, Czech Republic, 2018

Cecilia di Sciascio, TU Graz, Austria, 2018

Ido Guy, Ben-Gurion University, Israel 2018

Xidao Wen, University of Pittsburgh 2019

Di Lu, University of Pittsburgh 2019

Geela Fabic, University of Canterbury, New Zealand 2019

Rui Meng, University of Pittsburgh 2020