

## STAN KURKOVSKY

### PERSONAL INFORMATION

Full name: Stanislav A. Kurkovsky  
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### EDUCATION

- **Ph.D. in Computer Science, 1999.** Center for Advanced Computer Studies, University of Louisiana, Lafayette, LA (1996-1999). Thesis title: *Possibilistic Temporal Propagation*.
- **M.S. in Computer Science, 1997.** Center for Advanced Computer Studies, University of Louisiana, Lafayette, LA (1996-1997).
- **M.S./B.S. in Applied Mathematics, 1995.** School of Cybernetics, Moscow Engineering Physics Institute, Russia (1990-1995). Thesis title: *Modeling Transportation Flows with Imprecise Characteristics*.

### ACADEMIC EXPERIENCE AND OTHER SIGNIFICANT WORK EXPERIENCE

- **Professor**, tenured, Computer Science Department, Central Connecticut State University, New Britain, CT. 2005-present, full-time.  
Conducting research and teaching graduate and undergraduate courses in software engineering.
- **Commissioner, Team Chair**, ABET, Baltimore, MD. 2021-present, part-time  
**Program Evaluator, Computing Accreditation Commission.** 2014-present, part-time.  
Reviewing and evaluating compliance of undergraduate computer science programs with ABET/CAC criteria.
- **Coordinator**, CCSU Software Engineering Studio, New Britain, CT. 2014-present.  
Responsible for all aspects of the Studio operation that includes 10-15 student teams every semester. Teams work on externally sourced projects from inception through the software development lifecycle to deployment.
- **Department Chair**, Computer Science Department, Central Connecticut State University, New Britain, CT. 2013-2019, full-time.  
Managing budget, schedules, staff, student workers, planning and performing assessment in a department with four academic programs enrolling over 500 students.

- **Faculty Member**, Center for Academic Excellence in Information Assurance Education (certified to conform to the National Security Agency standards), Columbus State University, Columbus, GA. 2002-2005.  
Conducting research in information assurance, network security, and computer forensics; teaching relevant graduate and undergraduate courses.
- **Assistant/Associate Professor**, tenured, Department of Computer Science, Columbus State University, Columbus, GA. 1999-2005, full-time.  
Conducting research and teaching a variety of graduate and undergraduate courses.
- **Instructor**, Center for Advanced Computer Studies, University of Louisiana, Lafayette, LA. 1996-1999, part-time.  
Teaching a graduate bridge course.
- **Research Assistant**, Center for Advanced Computer Studies, University of Louisiana, Lafayette, LA. 1996-1999, part-time.  
Research in temporal reasoning and utilization of intelligent agents in information systems.
- **Software Engineer**, Teleform JSC, Moscow, Russia. 1995-1995, full-time.  
Information technology consulting in financial and banking areas. Software and database design and development, supervision of projects, interaction with clients.
- **Systems Programmer**, Institute of Radio-Engineering and Electronics of Russian Academy of Sciences, Moscow, Russia. 1992-1994, part-time.  
Software design and development for scientific projects in simulation modeling and artificial intelligence.

## AREAS OF INTEREST

### **Software Engineering and Computer Science Education**

- Software engineering case studies with LEGO; using mobile game development as a learning context; increasing student motivation with multidisciplinary projects

### **Mobile and Pervasive Computing**

- Mobile information access and user interfaces; multimodality in mobile computing; context-aware and location-based services; security and privacy implications of pervasive systems

### **Artificial Intelligence**

- Intelligent agent systems; temporal reasoning

## AWARDS AND OTHER HONORS

- Co-Principal Investigator, National Security Administration grant *“CCSU GenCyber Cybersecurity Future,”* \$148,728.74, 2021-2022, awarded.
- Principal Investigator, National Science Foundation grant *“Scholarships, Mentoring, and Career Development to Support Attainment of Software Engineering Graduate Degrees,”* \$1,000,000, 2020-2025, awarded.

- Co-Principal Investigator, National Institutes of Health grant *“The Development and Validation of a Novel Paradigm for Assessing Sexual Violence Risk Perception in MSM,”* \$425,541, 2020-2023, awarded.
- Principal Investigator, National Science Foundation grant *“CSMP Scholarship Program of Central Connecticut,”* \$4,982,084, 2018-2022, awarded.
- Principal Investigator, National Science Foundation grant *“LEGO-Based Active Learning Activities for Software Engineering Education,”* \$161,360, 2016-2019, awarded.
- Principal Investigator, Association for Computing Machinery grant *“Low-cost Adaptation of LEGO Serious Play to Teach Software Engineering,”* \$4,500, 2015-2016, awarded.
- Principal Investigator, National Science Foundation grant *“CSMP Scholarship Program at Central Connecticut State University,”* \$600,000, 2011-2016, awarded.
- Principal Investigator, National Science Foundation grant *“Using Mobile Game Development to Improve Student Learning and Satisfaction in Introductory Computer Science Courses,”* \$133,788, 2010-2013, awarded.
- Principal Investigator, National Science Foundation grant *“STEM Scholarship Program at Central Connecticut State University,”* \$478,302, 2006-2011, awarded.
- Principal Investigator, National Science Foundation grant *“REU Site: Research Experiences for Undergraduates – Emerging Issues in Computer Networking,”* \$163,886, 2004-2005, awarded.
- Principal Investigator, Rational Software Corporation (now acquired by IBM) grant *“Software Engineering for Educational Development (SEED),”* \$500,000, 2001-2004, awarded.
- CCSU School of Engineering Science, and Technology Award for Outstanding Research, 2019.
- Featured reviewer, ACM Computing Reviews, 2007.
- Kyle Spencer scholarship, University of Oxford, UK, 2005.
- Finalist for CSU Research and Scholarship Award, 2003/04, 2004/05.
- CSU College of Science Research and Scholarship Award, 2003/04, 2004/05.
- Nominated CSU Educator of the Year, 2000/01.
- Eight Faculty Development Grants, CSU, 2000-2005.
- Samsung Software Membership Award, 1995.
- Best student research project award, School of Cybernetics, Moscow Engineering Physics Institute, 1995.
- Best student research project award, School of Cybernetics, Moscow Engineering Physics Institute, 1994.

## RESEARCH PROJECTS

- **Scaffolded Software Projects for the Social Good. 2014-present**  
Leveraging the knowledge and skills of future software engineers to help non-profits and community organizations with their software projects. The outcome is a sustainable studio-based framework where students can build and demonstrate their professional competencies in computing while serving the greater social good.

- **LEGO for Teaching and Research in Software Engineering. 2014-present**  
LEGO is fun to play with, but can also be used in many learning activities for software engineering ranging from requirements elicitation to analyzing team dynamics, from studying software component interfaces to learning code refactoring. Supported by NSF and ACM.
- **Pervasive Location-based Services. 2008-2011**  
Design, development and analysis of RFID-enabled location-based services, their application for control of information access and surveillance, as well as implications to privacy and security.
- **Mobile Game Development in Computer Science Education. 2007-2013**  
Design and development of educational materials to use mobile gaming as a learning context and a motivational tool in introductory Computer Science courses. Supported by NSF.
- **VoiceXML-Enabled Intelligent Mobile Services. 2006-2008**  
Design and development of a framework for voice-enabled mobile systems capable of delivering personalized and context-aware services to their users.
- **Context-Aware Applications for Mobile Marketing. 2004-2006**  
Design and development of a pervasive computing platform for interactive mobile applications providing a capability for intelligent matching of information consumers to the suppliers of corresponding information. Connection to a personal area wireless network can be used for gathering context information about the physical environment of the user. Patterns of the end-user interactions with the system are analyzed to determine their interests.
- **Network Security and Virtual Private Networks. 2003-2004**  
In-depth study and analysis of modern architectures of virtual private networks. Using virtual private networks for securing mobile applications and web services. Analysis of the susceptibility of virtual private networks to denial of service attacks.
- **Wireless Grid Computing for Mobile Devices. 2002-2004**  
Design and development of an innovative technology that will enable smart phones and wireless PDA's to share their power and resources to solve computationally expensive tasks. Proposed architecture extends the infrastructure that already exists in most wireless cells currently used by all mobile phone users. The theoretical foundations of this project bring together such research areas as wireless networks, distributed algorithms and artificial intelligence.
- **New Models for Temporal Reasoning with Uncertainty. 1996-2001**  
Design and development of new algorithms for temporal constraint propagation under uncertainty. This approach is based on conventional temporal constraint network theory with added control and on extended applied Petri net theory with added temporal properties. Possibility theory is applied to represent uncertainty.
- **Intelligent Agents in Information Systems. 1997-1998**  
Design of a unified generic architecture for a personalized agent-based information system. The architecture consists of a three-layer structure of interoperating agents responsible for gathering, filtering and fusing the information streams in the Internet environment.
- **Smartcard Banking Information Systems. 1995**  
Participation in all stages of the development (object-oriented analysis, design, and implementation) of banking information systems that center around distributed database systems and networked card account managing and processing software.

- **Transportation Flow Model for the City of Moscow. 1993-1994**  
Design and development of a computational model to simulate the transportation flows of a large city or metropolitan area. AI-based model takes into account different distribution of the traffic flow based on temporal, spatial and other parameters.
- **Theses and Dissertations Directed**
  - Ahmed-Noor Awale, Kelly Martin, Rebecca Peralta. *Remote Monitoring of Vital Health Parameters through a Mobile and Web Application*, MS Software Engineering Capstone presented in May 2022.
  - Tyler MacNeil, Matthew Rusczyk. *Creating a Machine Learning Algorithm to Buy and Sell Stocks Based on a Public CEO's Tweets*, MS Software Engineering Capstone presented in December 2020.
  - Melissa Mulcahy, Emily Park. *ARC - A Resource for Cosplay*, MS Software Engineering Capstone presented in December 2018.
  - Jeffrey Blankenship, James Luczynski. *Image Recognition using Tensor Flow*, MS Software Engineering Capstone presented in December 2018.
  - David Nwojo Ogba, Nicholas Nguyen-Dinh, Alexander Garvey. *Android Cache Algorithm Simulator*, MS CIT Capstone presented in December 2012.
  - Abderrahim Bouiri, Chandni Modi, Wittawat Meesangnil. *Developing Mobile Application for CCSU Elihu Burritt Library*, MS CIT Capstone presented in May 2011.
  - Ranjana Koshy, Vivian J. Novak, Peter Szul. *CCSU Campus Map in Augmented Reality*, MS CIT Capstone presented in December 2010.
  - Ewa Syta, Bernardo Casano. *RFID Authentication for Transient Devices*, MS CIT Capstone presented in May 2009.
  - Oscar Rivera, Jaydip Bhalodi. *Preserving Privacy and Security: A Survey of Techniques and Architectures for Pervasive Computing Environments*, MS CIT Capstone presented in May 2008.
  - Amanda Abbey, Bharti Jogi, Todd McInerney, Srilatha Vodnala. *TextTrader: A Textbook Exchange e-Community*, MS CIT Capstone presented in December 2007.
  - David Strimple, Eric Nuzzi, Kerry Verdecchia. *Geographical Social Networking System with Voice- and Web- based Interface*, MS CIT Capstone presented in May 2007.
  - Caston Brown, Raquib Chowdhury, Shihpo Kao, Marin Kokona. *Evaluation and Benchmarking Different Web Services Platforms*, MS CIT Capstone presented in December 2005.
  - Arris Ray. *Wireless Grid Computing for Mobile Devices*, MS Thesis (co-directed with Bhagyavati) defended in Spring 2004.
  - Karthik Harihar. *Intelligent, Pervasive and Context-Aware Promotion Delivery Framework for Wireless Mobile Devices*, MS Thesis defended in November 2004. 1<sup>st</sup> place in the student project competition at the 2004 ACM Mid-Southeast Conference; accepted to the 2005 ACM SIGCSE Student Research Competition.
  - Frenny Thomas. *Annotation Manager: An Automated Web-based Content Management System for Digital Libraries with Annotated Bibliographies*, MS Thesis defended in December 2004.

- Manish Shah. *Kiosk Engine: A Platform Independent Solution for Multimedia Kiosks*, MS Thesis defended in April 2003. 2<sup>nd</sup> place in the student project competition at the 2003 ACM Mid-Southeast Conference.
- **Theses and Dissertations (Committee Work)**
  - Rodney Clark: MS Thesis *Wireless Course Management System*, defended in March 2005.
  - Zhong-Hua Zhou: MS Thesis *All-to-All Communication in Wireless Ad Hoc Networks*, defended in Fall 2000.
- **Undergraduate Student Projects Supervised (Selected)**
  - Tommy Carpenter, Caleb MacDonald: *Iris Recognition for Mobile Devices*, 2009. 1<sup>st</sup> place at the 2010 ACM Student Research Competition in Milwaukee, WI.
  - Michael Gibeau: Senior research project *Using Verlet Physics for Efficient Collision Detection and Reaction in 2D Games*, 2008. Presented at the 2009 ACM Student Research Competition in Chattanooga, TN.
  - Adam Sharp: Senior research project *Design and Development of Voice Operated Interchangeable Control Environment (VOICE)*, 2006.
  - Marcin Sliwowski: NSF REU project *Using VoiceXML in Course Management Systems*, 2005.
  - John Hudson: NSF REU project *SMMART – Personalized Adaptive System for Mobile Marketing*, 2004.
  - William Ingram: Research project *Development of an Advanced Customizable AI Checkers Player Based on Alpha-Beta Search Method*, 2001. Presented at CSU Student Research Conference in April 2002.
  - Frenny Thomas: Undergraduate Honors Thesis in Computer Science *Dynamic Online Database Management System*, July 2002.

## PUBLICATIONS AND OTHER PROFESSIONAL ACTIVITIES

### Publications – Theses

- S. Kurkovsky. *Possibilistic Temporal Propagation*. PhD Thesis. Center for Advanced Computer Studies, University of Louisiana, Lafayette, 1999.
- S. Kurkovsky. *Modeling Transportation Flows with Imprecise Characteristics*. MS Thesis. School of Cybernetics, Moscow Engineering Physics Institute, 1995.

### Publications – Books

- S. Kurkovsky (Ed). *Multimodality in Mobile Computing and Mobile Devices: Methods for Adaptable Usability*, IGI Global, 2009.

### Publications – Editorships

- Associate Editor, *The International Journal of Grid and High Performance Computing*, IGI Global.
- Member of the Editorial Board, *International Journal of Multimedia and Ubiquitous Engineering*, SERSC.

- Associate Editor. Proceedings of *The 2004 International Conference on Pervasive Computing and Communications (PCC-04)*, June 2004, Las Vegas, NV, CSREA Press.
- Associate Editor. Proceedings of *The 2003 International Conference on Artificial Intelligence (IC-AI-03)*, June 2003, Las Vegas, NV, CSREA Press.

### **Publications – Refereed Book Chapters**

- S. Kurkovsky, A. Sharp. VoiceXML-Enabled Intelligent Mobile Services. In A. B. Waluyo et al, Eds., *Mobile Intelligence: Mobile Computing and Computational Intelligence*, Wiley Interscience, 2010.
- S. Kurkovsky. Location-Dependent and Context-Aware Computing. In P. Chamam, Ed., *Encyclopedia of Next Generation Mobile Networks and Ubiquitous Computing*, IGI Global, 2009.
- S. Kurkovsky. Can m-Commerce Benefit from Pervasive Computing? In I. Lee, Ed., *Handbook of Research on Telecommunications Planning and Management for Business*, IGI Global, 2009.
- S. Kurkovsky. Peer-to-Peer Network Applications. In H. Bidgoli, Editor, *The Handbook of Computer Networks*, John Wiley and Sons, 2007.
- S. Kurkovsky. Virtual Private Networks Architecture. In H. Bidgoli, Editor, *The Handbook of Information Security*, John Wiley and Sons, 2005.
- S. Kurkovsky. Common Gateway Interface (CGI) Scripts. In H. Bidgoli, Editor, *The Internet Encyclopedia*, Vol. 1, pp. 218-228, John Wiley and Sons, 2003.

### **Publications – Peer-reviewed Journal Papers**

- S. Kurkovsky. Mobile Game Development: Improving Student Engagement and Motivation in Introductory Computing Courses. *Computer Science Education*, Vol. 23, Issue 2, Taylor and Francis, 2013.
- S. Kurkovsky, E. Syta, B. Casano. Continuous RFID-enabled Authentication: Privacy Implications. *IEEE Technology and Society*, Vol. 30, Issue 3, IEEE, 2011.
- S. Kurkovsky. Experimenting with IDA\* Search Algorithm in Heterogeneous Pervasive Environments. *Artificial Intelligence Review* journal, Vol. 29, No. 3-4, Springer, 2009.
- S. Kurkovsky, O. Rivera, J. Bhalodi. Classification of Privacy Management Techniques in Pervasive Computing. *International Journal of Ubiquitous Service, Science and Technology*, Vol. 1, Issue 1, SERSC, 2009.
- S. Kurkovsky. Instructor's Roles in Software Engineering Course Projects. *International Journal of Advanced Science and Technology*, Vol. 1, Issue 1, SERSC, 2008.
- S. Kurkovsky. Making Computing Attractive For Non-Majors: A Course Design. *Journal of Computing Sciences in Colleges*, Vol. 22, Issue 3, ACM, 2007 (also appears as: S. Kurkovsky. Improving Student Motivation in a Computing Course for Non-Majors, In Proceedings of the 2006 Conference on Frontiers in Education, Las Vegas, NV, June 26-29, 2006).
- S. Kurkovsky, K. Harihar. Using Ubiquitous Computing in Interactive Mobile Marketing. *Personal and Ubiquitous Computing* journal, special issue on *Interactive Mobile Information Access*, Vol. 10, Issue 4, Springer, 2006.

- S. Kurkovsky, R. Loganantharaj. Extension of Petri Nets for Representing and Reasoning with Tasks with Imprecise Durations. *Applied Intelligence* journal, special issue on *Temporal Uncertainty*, Vol. 23, Issue 2, Kluwer, 2005.
- S. Kurkovsky, Bhagyavati, A. Ray. Modeling a Grid-Based Problem-Solving Environment for Mobile Devices. *Journal of Digital Information Management*, Vol. 2, Issue 2, 2004.

### **Publications – Peer-reviewed Working Group Reports**

- R. K. Raj, J. Impagliazzo, S. G. Aly, D. S. Bowers, H. Connamacher, S. Kurkovsky, B. MacKellar, T. Prickett, M. Marques Samary. Toward Competency-Based Professional Accreditation in Computing. In *2022 ITiCSE Working Group Reports (ITiCSE-WGR '22)*, Dublin, Ireland, July 2022.
- D. Bouvier, E. Lovelette, J. Matta, J. Bai, J. Chetty, S. Kurkovsky, J. Wan. Factors Affecting the Adoption of Peer Instruction in Computing Courses. In *Proceedings of 2019 ACM Global Computing Education Conference (CompEd 2019)*, Chengdu, China, May 17-19, 2019.
- D. Foster, L. White, J. Adams, D.C. Erdil, H. Hyman, S. Kurkovsky, M. Sakr, L. Stott. Cloud computing: developing contemporary computer science curriculum for a cloud-first future. In *Proceedings of The 23<sup>rd</sup> Annual ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2018)*, Larnaca, Cyprus, July 2-4, 2018.
- B. Burd, J.P. Barros, C. Johnson, S. Kurkovsky, A. Rosenbloom, N. Tillman. Educating for mobile computing: addressing the new challenges. In *Proceedings of the final reports on Innovation and technology in computer science education 2012 working groups (ITiCSE-WGR '12)*, Haifa, Israel, July 3-5, 2012.
- J. Carter, D. Bouvier, R. Cardell-Oliver, M. Hamilton, S. Kurkovsky, S. Markham, O. W. McClung, R. McDermott, C. Riedesel, J. Shi, S. White. Motivating All Our Students? In *Proceedings of The 16<sup>th</sup> ACM–SIGCSE Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2011)*, Darmstadt, Germany, June 27-29, 2011.
- J. Carter, S. White, K. Fraser, S. Kurkovsky, C. McCreesh, M. Wieck. Motivating Our Top Students, In *Proceedings of The 15<sup>th</sup> ACM–SIGCSE Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2010)*, Ankara, Turkey, June 26-30, 2010.

### **Publications – Peer-reviewed Conference Papers**

- S. Kurkovsky. Using Scaffolding to Simplify FOSS Adoption. In *Proceedings of the 27<sup>th</sup> ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2022)*, Dublin, Ireland, July 11-13, 2022.
- A. Kumar, M. Doyle, V. Hong, A. Joshi, S. Kurkovsky, S. Rollins. Helping Academically Talented STEM Students with Financial Need Succeed. In *Proceedings of the Frontiers in Education (FIE'21) conference*, Lincoln, NE, October 13-16, 2021.
- S. Rollins, A. Joshi, A. Kumar, S. Kurkovsky, T. Camp. Best Practices for Designing and Implementing NSF S-STEM Scholarship Projects. In *Proceedings of The 52<sup>nd</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2021)*, March 13-20, 2021, online.
- S. Kurkovsky, S. Ludi, L. Clark. Active Learning with LEGO for Software Requirements. In *Proceedings of The 50<sup>th</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2019)*, Minneapolis, MN, February 27-March 2, 2019.



- S. Kurkovsky. Using LEGO to Teach Software Interfaces and Integration. In Proceedings of *The 2018 ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2018)*, Larnaca, Cyprus, July 2-4, 2018.
- S. Kurkovsky. Designing a Prototype System for User Behavior Analysis in the Internet of Things Environments. In Proceedings of *The 6<sup>th</sup> IEEE Global Conference on Consumer Electronics (GCCE 2017)*, Nagoya, Japan, October 24-27, 2017.
- C. Williams, S. Kurkovsky. Raspberry Pi Creativity: A Student-driven Approach to Teaching Software Design Patterns. In Proceedings of *The 2017 IEEE Frontiers in Education Conference (FIE 2017)*, Indianapolis, IN, USA, October 18-21, 2017.
- S. Kurkovsky, C. Williams. Raspberry Pi as a Platform for the Internet of Things Projects: Experiences and Lessons. In Proceedings of *The 2017 ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2017)*, Bologna, Italy, July 3-5, 2017.
- I. Polycarpou, P. Andreou, C. Laxer, S. Kurkovsky. Academic-Industry Collaborations: Effective Measures for Successful Engagement. In Proceedings of *The 2017 ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2017)*, Bologna, Italy, July 3-5, 2017.
- S. Kurkovsky. Mobile Authentication for Software Engineering: A Case Study of Research and Development Student Projects. In Proceedings of *2016 IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE 2016)*, Bangkok, Thailand, December 7-9, 2016.
- S. Kurkovsky. A LEGO-based Approach to Introducing Test-Driven Development. In Proceedings of *The 21<sup>st</sup> Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2016)*, Arequipa, Peru, July 11-13, 2016.
- J. Campbell, S. Kurkovsky, C. W. Liew, A. Tafliovich. Scrum and Agile Methods in Software Engineering Courses. In Proceedings of *The 47<sup>th</sup> ACM Technical Symposium on Computing Science Education (SIGCSE 2016)*, Memphis, TN, March 3-5, 2016.
- S. Kurkovsky. Teaching Software Engineering with LEGO Serious Play. Proceedings of *The 20<sup>th</sup> Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2015)*, Vilnius, Lithuania, July 6-8, 2015.
- M. Mulcahy, S. Kurkovsky. Automatic Fall Detection Using Mobile Devices. Proceedings of *The 12<sup>th</sup> International Conference on Information Technology: New Generations. (ITNG 2015)*, Las Vegas, NV, April 13-15, 2015.
- S. Kurkovsky. Interdisciplinary Connections in a Mobile Computing and Robotics Course. Proceedings of *The 19<sup>th</sup> Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2014)*, Uppsala, Sweden, June 23-25, 2014.
- S. Kurkovsky. Towards Reliable Mobile Iris Recognition. Proceedings of *The IEEE International Conference on Signal and Image Processing Applications, (ICSIPA 2013)*, Melaka, Malaysia, October 8-10, 2013.
- S. Kurkovsky. Mobile Computing and Robotics in One Course: Why Not? Proceedings of *The 18<sup>th</sup> Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2013)*, Canterbury, UK, July 1-3, 2013.

- S. Jackson, S. Kurkovsky, E. Mustafaraj, L. Postner. Mobile Application Development in Computing Curricula. Proceeding of *The 44<sup>th</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2013)*, Denver, CO, March 6-9, 2013.
- S. Kurkovsky, D. Defoe. Evaluating the Use of Mobile Game Development in Introductory CS Courses. Proceedings of *The 42<sup>nd</sup> Annual Frontiers in Education Conference (FIE 2012)*, Seattle, WA, October 3-6, 2012.
- S. Kurkovsky, W. Meesangnil. Building and Evaluating a Mobile Application for an Academic Library. Proceedings of *The 15<sup>th</sup> The International Conference on Network-Based Information Systems (NBIS 2012)*, Melbourne, Australia, September 26-28, 2012.
- S. Kurkovsky. Integration of Mobile Game Development into Introductory CS Courses: Lessons Learned. Proceedings of *The 4<sup>th</sup> International IEEE Consumer Electronics Society Games Innovation Conference (IGIC 2012)*, Rochester, NY, September 7-9, 2012.
- S. Kurkovsky, R. Koshy, V. Novak, P. Szul. Current Issues in Handheld Augmented Reality. In Proceedings of *The 2<sup>nd</sup> IEEE International Conference on Communications and Information Technology (ICCIT 2012)*, Hammamet, Tunisia, June 26-28, 2012.
- S. Kurkovsky. Integrating Mobile Culture into Computing Education. In Proceedings of *The 2<sup>nd</sup> IEEE Integrated STEM Education Conference*, Ewing, NJ, March 9, 2012.
- S. Kurkovsky, E. Syta. Monitoring of Electronic Communications at Universities: Policies and Perceptions of Privacy. In Proceedings of *The 44<sup>th</sup> Hawaii International Conference on System Sciences (HICSS 2011)*, Koloa, Kauai, HI, January 4-7, 2011.
- S. Kurkovsky, E. Syta. Approaches and Issues in Location-Aware Continuous Authentication. In Proceedings of *The 13<sup>th</sup> IEEE International Conference on Computational Science and Engineering (CSE 2010)*, Hong Kong, China, December 11-13, 2010.
- S. Kurkovsky, E. Syta, B. Casano. Continuous RFID-enabled Authentication and its Privacy Implications. In Proceedings of *The 2010 IEEE International Symposium on Technology and Society (ISTAS 2010)*, Wollongong, Australia, June 7-9, 2010.
- S. Kurkovsky, E. Syta. Digital Natives and Mobile Phones: A Survey of Practices and Attitudes about Privacy and Security. In Proceedings of *The 2010 IEEE International Symposium on Technology and Society (ISTAS 2010)*, Wollongong, Australia, June 7-9, 2010.
- S. Kurkovsky, T. Carpenter, C. MacDonald. Experiments with Simple Iris Recognition for Mobile Phones. In Proceedings of *The 7<sup>th</sup> International Conference on Information Technology: New Generations. (ITNG 2010)*, Las Vegas, NV, April 12-14, 2010.
- E. Syta, S. Kurkovsky, B. Casano. RFID-based Authentication Middleware for Mobile Devices. In Proceedings of *The 43<sup>rd</sup> Hawaii International Conference on System Sciences (HICSS 2010)*, Kauai, HI, January 5-8, 2010.
- S. Kurkovsky. Can Mobile Game Development Foster Student Interest in Computer Science? In Proceedings of *The 2009 IEEE Consumer Electronics Games Innovation Conference (ICE-GIC 2009)*, London, UK, August 25-28, 2009.
- J. Carter, T. Jenkins, P. Tymann, K. Fraser, S. Kurkovsky, C. Lang, M. Beheshti. Participation rate in CS: One international issue of multiplicity of national ones? In Proceedings of *Higher Education Academy*

- Information and Computer Sciences 10<sup>th</sup> Annual Conference*, University of Kent at Canterbury, UK, August 25-27, 2009.
- S. Kurkovsky. Engaging Students through Mobile Game Development. In Proceedings of *The 2009 Technical Symposium on Computer Science Education (SIGCSE 2009)*, Chattanooga, TN, March 4-8, 2009.
  - P. Morreale, S. Kurkovsky, G. Chang. Methodology for Successful Undergraduate Recruiting in Computer Science at Comprehensive Public Universities. In Proceedings of *The 2009 Technical Symposium on Computer Science Education (SIGCSE 2009)*, Chattanooga, TN, March 4-8, 2009.
  - S. Kurkovsky, D. Strimple, E. Nuzzi, K. Verdecchia. Convergence of Web 2.0 and SOA: Taking Advantage of Web Services to Implement a Multimodal Social Networking System. In Proceedings of *The 11<sup>th</sup> IEEE International Conference on Computational Science and Engineering (CSE 2008)*, São Paulo, Brazil, July 16-18, 2008.
  - S. Kurkovsky, D. Strimple, E. Nuzzi, K. Verdecchia. Mobile Voice Access in Social Networking Systems. In Proceedings of *The 5<sup>th</sup> International Conference on Information Technology: New Generations (ITNG 2008)*, Las Vegas, NV, April 7-9, 2008.
  - A. Sharp, S. Kurkovsky. VOICE: a Framework for Speech-Based Mobile Systems. In Proceedings of *The 21<sup>st</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA 2007)*, Niagara Falls, Ontario, Canada, May 21-23, 2007.
  - S. Kurkovsky, V. Zanev, A. Kurkovsky. SMMART, a Context-Aware Mobile Marketing Application: Experiences and Lessons. In proceedings of *The 2005 IFIP International Conference on Embedded and Ubiquitous Computing*, Nagasaki, Japan, December 6-7, 2005.
  - S. Kurkovsky. Using Principles of Pervasive Computing to Design m-Commerce Applications. In proceedings of *The 2005 IEEE International Conference on Information Technology: Coding and Computing (ITCC-05)*, Las Vegas, NV, April 11-13, 2005.
  - K. Harihar, S. Kurkovsky. Using Jini to Enable Pervasive Computing Environments. In proceedings of *The 43<sup>rd</sup> Annual ACM Southeast Conference*, Kennesaw, GA, March 18-20, 2005.
  - S. Kurkovsky, Bhagyavati. First Year Experiences of NSF REU Grant: Emerging Issues in Computer Networking. In proceedings of *The 43<sup>rd</sup> Annual ACM Southeast Conference*, Kennesaw, GA, March 18-20, 2005.
  - Bhagyavati, S. Kurkovsky, C. Whitehead. Using Asynchronous Discussions to Enhance Student Participation in CS Courses. In proceedings of *The 2005 Technical Symposium on Computer Science Education (SIGCSE 2005)*, St. Louis, MO, February 2005.
  - M. Yang, Bhagyavati, S. Kurkovsky. Research Experience for Undergraduates – Emerging Issues in Computer Networking. In Proceedings of *The International Conference on Education and Information Systems, Technologies and Applications (EISTA-04)*, Orlando, FL, July 21-25, 2004.
  - Bhagyavati, S. Kurkovsky. Emerging Issues in Wireless Computational Grids for Mobile Devices. In Proceedings of *The 8<sup>th</sup> World Multiconference on Systemics, Cybernetics and Informatics (SCI-2004)*, Orlando, FL, July 18-21, 2004.
  - S. Kurkovsky, Bhagyavati, W. Summers, C. Whitehead. Online Discussions in Computer Science Courses: How to Make Them an Effective Learning Tool. In Proceedings of *The 2<sup>nd</sup> IEEE International*

*Conference on Information Technology: Research and Education (ITRE-2004)*, London, UK, June 28-July 1, 2004.

- S. Kurkovsky, Bhagyavati, M. Shah. Integrating Diverse IT Areas: Bridging the Gap between Multimedia Kiosks and the Wireless World. In Proceedings of *The 2<sup>nd</sup> IEEE International Conference on Information Technology: Research and Education (ITRE-2004)*, London, UK, June 28-July 1, 2004.
- S. Kurkovsky, Bhagyavati, M. Shah. Developing an Interactive Kiosk for Mobile Devices: A Practical Experience. In Proceedings of *The 2004 International Conference on Pervasive Computing (PCC-04)*, Las Vegas, NV, June 21-24, 2004.
- S. Kurkovsky, K. Harihar. Intelligent Pervasive Framework for Consumer-Supplier Interaction. In Proceedings of *The 2004 International Conference on Pervasive Computing (PCC-04)*, Las Vegas, NV, June 21-24, 2004.
- S. Kurkovsky, Bhagyavati, M. Yang, A. Ray. Modeling a Grid-Based Problem-Solving Environment for Mobile Devices. In Proceedings of *The 2004 IEEE International Conference on Information Technology: Coding and Computing (ITCC-04)*, Las Vegas, NV, April 5-7, 2004.
- M. Yang, S. Q. Zheng, Bhagyavati, S. Kurkovsky. Programmable Weighted Arbiters for Constructing Switch Schedulers. In Proceedings of *The 2004 IEEE Workshop on High Performance Switching and Routing (HPSR-04)*, Phoenix, AZ, April 18-21, 2004.
- S. Kurkovsky, Bhagyavati, A. Ray. A Collaborative Problem-Solving Framework for Mobile Devices. In Proceedings of *The 42<sup>nd</sup> Annual ACM Southeast Conference*, Huntsville, AL, April 2-3, 2004.
- S. Kurkovsky, Bhagyavati. Wireless Grid Enables Ubiquitous Computing. In Proceedings of *The 16<sup>th</sup> International Conference on Parallel and Distributed Computing Systems (PDCS-2003)*, Reno, NV, August 13-15, 2003.
- S. Kurkovsky, Bhagyavati. Agent-Based Distributed IDA\* Search Algorithm for a Grid of Mobile Devices. In Proceedings of *The 7<sup>th</sup> World Multi-Conference on Systemics, Cybernetics and Informatics (SCI-2003)*, Orlando, FL, July 27-30, 2003.
- S. Kurkovsky, Bhagyavati. Modeling a Computational Grid of Mobile Devices as a Multi-Agent System. In Proceedings of *The 2003 International Conference on Artificial Intelligence (IC-AI-03)*, Las Vegas, NV, June 23-26, 2003.
- A. Ray, S. Kurkovsky. A Survey of Intelligent Pervasive Computing. In Proceedings of *The 2003 International Conference on Artificial Intelligence (IC-AI-03)*, Las Vegas, NV, June 23-26, 2003.
- S. Kurkovsky. Graduate Computer Science Courses: Facilitating Online Discussions. In Proceedings of *The 2002 ACM Mid-Southeast Chapter Fall Conference*, Gatlinburg, TN, November 2002.
- S. Kurkovsky. Web-Based Storage and Presentation of Program Source Code. In Proceedings of *The 2002 ACM Mid-Southeast Chapter Fall Conference*, Gatlinburg, TN, November 2002.
- S. Kurkovsky, R. Loganantharaj. Modeling of, and Reasoning with Recurrent Events with Imprecise Durations. In Proceedings of *The 13<sup>th</sup> International Conference on Industrial And Engineering Applications of Artificial Intelligence And Expert Systems (IEA/AIE-2000)*, New Orleans, LA, June 2000, Lecture Notes in Computer Science, Vol. 1821, pp. 272-283, Springer Verlag.

- S. Kurkovsky, R. Loganantharaj. Extension of Petri Nets and its Applications to Model Systems with Imprecise Task Duration. In Proceedings of *The 9<sup>th</sup> IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2000)*, San Antonio, TX, May 2000.
- R. Loganantharaj, S. Kurkovsky. A New Model for Projecting Temporal Distance Using Fuzzy Temporal Constraints. In Proceedings of *The 10<sup>th</sup> International Conference on Industrial Engineering Applications of Artificial Intelligence Expert Systems (IEA/AIE-97)*, Atlanta, GA, June 1997.
- N. Pissinou, S. Kurkovsky, R. Benton, Bhagyavati. A Roadmap to the Utilization of Intelligent Information Agents: Are Agents the Link Between the Database and Artificial Intelligence Communities? In Proceedings of *1997 IEEE Knowledge and Data Engineering Exchange Workshop (KDEX-97)*.
- S. Kurkovsky. Modeling of Emission Functions for Aerosol Distribution. In Proceedings of *The Second International Aerosol Symposium*, Moscow, July 1995.
- S. Kurkovsky. Modeling of Inexactly and Incompletely Determined Systems. In Proceedings of *The 11<sup>th</sup> International Symposium on Problems of Modular Information and Computer Systems and Networks, ICS-NET-95*, S-Petersburg, June 1995.

### **Publications – Poster Presentations with Abstracts**

- S. Kurkovsky. Managing Scope in Service Learning Projects. In Proceedings of *The 27<sup>th</sup> ACM Conference on Innovation and Technology in Computer Science Education (ITICSE 2022)*, Dublin, Ireland, July 11-13, 2022.
- S. Kurkovsky. A Simple Game to Introduce Scrum Concepts. In Proceedings of *The 51<sup>st</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2020)*. March 11-13, 2020.
- S. Kurkovsky, M. Mulcahy. Student Projects with Real-time Sensor Data. Proceedings of *The 20<sup>th</sup> Annual Conference on Innovation and Technology in Computer Science Education (ITICSE 2015)*, Vilnius, Lithuania, July 6-8, 2015.
- S. Kurkovsky. Issues and Challenges in Handheld Augmented Reality Applications. In Proceedings of *The 8<sup>th</sup> International Conference on Web Information Systems and Technologies*, Porto, Portugal, April 18-21, 2012.
- S. Kurkovsky. Making the Case for Mobile Game Development. In Proceedings of *The 14<sup>th</sup> ACM–SIGCSE Annual Conference on Innovation and Technology in Computer Science Education (ITICSE 2009)*, Paris, France, July 6-8, 2009.
- S. Kurkovsky. Four Roles of Instructor in Software Engineering Projects. In Proceedings of *The 13<sup>th</sup> ACM-SIGCSE Annual Conference on Innovation and Technology in Computer Science Education (ITICSE 2008)*, Madrid, Spain, June 30-July 2, 2008.
- S. Kurkovsky, V. Zanev, A. Kurkovsky. SMMART: Using Context-Awareness in m-Commerce. In proceedings of *The 7<sup>th</sup> International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI-05)*, Vienna, Austria, September 19-22, 2005.

### **Publications – Workshops with Abstracts**

- S. Kurkovsky, S. Ludi. LEGO-based Active Learning Exercises for Teaching Software Development. In *Proceedings of the 49<sup>th</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2018)*, Baltimore, MD, February 21-24, 2018.

- S. Kurkovsky. Lego-based Case Studies for Teaching Software Engineering Concepts throughout the Curriculum. In *Proceedings of the 47<sup>th</sup> ACM Technical Symposium on Computing Science Education (SIGCSE 2016)*, Memphis, TN, March 3-5, 2016.
- S. Kurkovsky. Android+Sphero: Teaching Mobile Computing and Robotics in a Single Course. In *Proceeding of The 44<sup>th</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2013)*, Denver, CO, March 6-9, 2013.
- S. Kurkovsky, D. Defoe. Short Mobile Game Development Projects for CS1/2. In *Proceeding of The 42<sup>nd</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2011)*, Dallas, TX, March 9-12, 2011.
- S. Kurkovsky. CS 1.5: Mobile Game Development – Engaging Students Early in the Program. In *Proceeding of The 40<sup>th</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2009)*, Chattanooga, TN, March 4-7, 2009.

### **Publications – Invited Papers**

- S. Kurkovsky. Pervasive Computing: Past, Present and Future. In *Proceedings of The 5<sup>th</sup> International Conference on Information and Communication Technology (ICICT 2007)*, Cairo, Egypt, December 2007.

### **Publications – Articles in Trade Magazines**

- S. Kurkovsky. Representation of Inexact Quantities. *Monitor*, Moscow, 7/1995.
- S. Kurkovsky. Interval Methods in Computer Graphics. *Monitor*, Moscow, 7-8/1993.
- S. Kurkovsky. PCX Graphics + Special Effects. *Monitor*, Moscow, 6/1993.
- S. Kurkovsky. Hypertexts: A Practical Approach. *Monitor*, Moscow, 4-5/1993.
- S. Kurkovsky. Sorting Algorithms. *Monitor*, Moscow, 6-7/1992.
- S. Kurkovsky. Building Menu Systems for Graphical User Interfaces. *Monitor*, Moscow, 3/1992.
- S. Kurkovsky. Design of Graphical User Interfaces. *Monitor*, Moscow, 1/1992.

### **Publications – Other**

- S. Kurkovsky. Agent Technology: Application to Personalized Information Systems. Unpublished manuscript, 1998.

### **Selected Invited Talks and Presentations**

- *Mobile Commerce Technologies*. Tutorial at the 5<sup>th</sup> International Conference on Information and Communication Technology (ICICT 2007), Cairo, Egypt, December 2007.
- *Wireless Grids: a Look at the Future Computing Portals*. Lecture at NSF REU Research Colloquium, Department of Computer Science, Columbus State University, Columbus, GA, June 2004.
- *Bringing Mobile Devices into the World of Grid Computing*. Invited lecture at the Center for Advanced Computer Studies, University of Louisiana at Lafayette, Lafayette, LA, March 2004.
- *Using Grid Computing to Solve Emerging Problems of Health Sciences*. Invited lecture at the University of the Sciences in Philadelphia, Philadelphia, PA, January 2004.

- *Graduate Computer Science Courses: Facilitating Online Discussions*. Presentation at the ACM Mid-Southeast Chapter Fall Conference, Gatlinburg, TN, November 2002.
- *Web-Based Storage and Presentation of Program Source Code*. Presentation at the ACM Mid-Southeast Chapter Fall Conference, Gatlinburg, TN, November 2002.
- *Practical Applications of Possibilistic Temporal Propagation*. Presentation at the Computer Science Research Colloquium, Columbus State University, Columbus, GA, March 2000.

### Peer Reviewing – Funding Agencies

- *National Science Foundation* Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) program: 1-2 panels every year since 2007.
- *National Science Foundation* IUSE/TUES/CCLI program: 1-2 panels every year since 2011.

### Peer Reviewing – Books and Book Chapters

- *Encyclopedia of Software Engineering* by P. Laplante, Ed., Taylor and Francis, 2009.
- *Augmented Learning: Research and Design of Mobile Educational Games* by E. Klopfer, MIT Press, 2008, for ACM Computing Reviews.
- *Creating Mobile Games* by C. Hamer, APress, 2007, for ACM Computing Reviews.
- *Preserving Digital Information* by H. M. Gladney, Springer-Verlag, 2007, for ACM Computing Reviews.
- *Mobile Information Systems* by B. Pernici, Ed., Springer-Verlag, 2006, for ACM Computing Reviews.
- *Personal, Portable, Pedestrian: Mobile Phones in Japanese Life* by M. Ito et al, Eds., MIT Press, 2005, for ACM Computing Reviews.
- *Cross-Platform .NET Development: Using Mono, Portable.NET, and Microsoft .NET* by M. J. Easton, J. King, APress, 2004, for ACM Computing Reviews.
- *Peer-to-peer Networking in Mobile Communications Based on SIP* by J. Huber, In *Wireless Communications Systems and Networks*, Plenum Press, 2004, for ACM Computing Reviews.
- *Web Data Management* by S. Madria, S. Bhowmick, and W. Ng, Springer-Verlag, 2003, for ACM Computing Reviews.
- *Peer to Peer: Collaboration and Sharing over the Internet* by B. Leuf, Addison Wesley, 2002, for ACM Computing Reviews.
- *C# Bible* by J. Ferguson et al., J. Wiley and Sons, 2002, for ACM Computing Reviews.
- *.NET Framework Security* by B. LaMacchia, Addison Wesley, 2002, for ACM Computing Reviews.
- *Developing Enterprise Java Applications with J2EE and UML* by K. Ahmed and C. Umrysh, Addison Wesley, 2002, for ACM Computing Reviews.
- *Advanced Visual Basic .NET Programming* by M. Ekedahl for Course Technology, 2003 (pre-publication review)
- *C#: Learning to Program* by Horspool and Bishop for J. Wiley and Sons, 2002 (proposal review).
- *C++: How to Program* 3<sup>rd</sup> edition by Deitel and Deitel for Prentice Hall, 2002 (post-publication review)
- *VB.NET: How to Program* by Deitel and Deitel for Prentice Hall, 2001 (pre-publication review).

## Peer Reviewing – Refereed Journals and Conferences

- IEEE Transactions on Multimedia
- IEEE Transactions on Fuzzy Systems
- IEEE Transactions on Parallel and Distributed Systems
- Communications of the ACM
- Proceedings of the IEEE
- ACM Inroads
- International Journal of Pattern Recognition and Artificial Intelligence (World Scientific)
- Future Generation Computer Systems journal (Elsevier)
- Data & Knowledge Engineering journal (Elsevier)
- Swarm Intelligence journal (Springer)
- Applied Intelligence journal (Kluwer)
- International Journal of Grid Computing (Elsevier)
- Information Fusion journal (Elsevier)
- Security and Communication Networks journal (Wiley)
- The Handbook of Information Security (John Wiley and Sons)
- IFIP International Conference on Embedded and Ubiquitous Computing
- International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE)
- SIGCSE Symposium on Computer Science Education
- ITICSE Conference on Innovation and Technology in Computer Science Education

## Conferences – Organizing

### ***Program Chair***

- Track on *Mobile and Context-aware Computing* of *The 9<sup>th</sup> IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC 2011)*, Melbourne, Australia, October 24-26, 2011.
- *Workshop on Advances in Mobile Computing and Applications: Security, Privacy and Trust*, in conjunction with the *24<sup>th</sup> IEEE International Conference on Advanced Information Networking and Applications (IEEE AINA 2010)*, April 20-23 2010, Perth, Australia.
- *3<sup>rd</sup> Workshop on Intelligent Pervasive Computing*, in conjunction with *2005 Multiconference in Computer Science and Computer Engineering*, June 27-30, 2005, Las Vegas, NV, USA.
- Track on *Wireless Ad Hoc/Sensor Networks and Network Security* at the *2005 IEEE International Conference on Information Technology (IEEE ITCC 2005)*, co-chair of Program Committee, April 11-13, 2005, Las Vegas, NV.



- *2<sup>nd</sup> Workshop on Intelligent Pervasive Computing*, in conjunction with *2004 Multiconference in Computer Science and Computer Engineering*, June 21-24, 2004, Las Vegas, NV, USA.
- *Workshop on Intelligent Pervasive Computing*, in conjunction with *2003 International Conference on Artificial Intelligence (IC-AI-03)*, June 23-26, 2003, Las Vegas, NV, USA.

### **Program Committee Member**

- *2023 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2023)*, Submissions Co-Chair, July 10-12, 2023, Turku, Finland.
- *2022 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2022)*, Submissions Co-Chair, July 11-13, 2022, Dublin, Ireland.
- *2021 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2021)*, Submissions Co-Chair, June 26-July 1, 2021, Paderborn, Germany (virtual).
- *52<sup>nd</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2021)*, ACM SRC (Student Research Competition) Co-chair, March 13-20, 2021, online.
- *2020 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2020)*, Submissions Chair, June 17-18, 2020, Trondheim, Norway (virtual).
- *51<sup>st</sup> ACM Technical Symposium on Computer Science Education (SIGCSE 2020)*, ACM SRC (Student Research Competition) Co-chair, March 11-14, 2020, Portland, OR (online).
- *2019 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2019)*, Proceedings Co-chair, July 15-17, 2019, Aberdeen, UK.
- *2018 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2018)*, Proceedings Chair, July 2-4, 2018, Larnaca, Cyprus.
- *2017 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2017)*, Proceedings Chair, July 3-5, 2017, Bologna, Italy.
- *2016 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2016)*, Proceedings Co-chair, July 11-13, 2016, Arequipa, Peru.
- *2015 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2015)*, Proceedings Co-chair, July 6-8, 2015, Vilnius, Lithuania.
- *2013 Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2013)*, Posters Chair, July 1-3, 2013, Canterbury, UK.
- *2010 International Conference on Information Science and Applications (ICISA 2010)*, April 21-23, 2010, Seoul, Korea.
- *2009 International Conference on Security Technology (SecTech 2009)*, December 10-12, 2009, Jeju Island, Korea.
- *2009 International Conference on Next Generation Wireless Systems (NGWS 2009)*, October 12-14, 2009, Melbourne, Australia.
- *The 18<sup>th</sup> International Conference on Computer Communications and Networks (ICCCN 2009)*, Track on Pervasive Computing and Grid Networking, August 2-6, 2009, San Francisco, CA, USA.

- *The 3<sup>rd</sup> International Conference on Complex, Intelligent and Software Intensive Systems (CISIS-2009)*, Pervasive Computing and Ad Hoc Networking Track, and International Workshop on Intelligent Interfaces for Human-Computer Interaction (IIHCI-2009), March 2009, Fukuoka, Japan.
- *International Conference on Agents and Artificial Intelligence (ICAART 2009)*, 19-21 January 2009, Porto, Portugal.
- *2008 International Conference on Security Technology (SecTech 2008)*, December 13-15, 2008, Hainan Island, China.
- *The 10<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS-08)*, June 12-16, 2008, Barcelona, Spain.
- *International Conference on Information Security and Assurance (ISA 2008)*, April 24-26, 2008, Busan, Korea.
- *The 22<sup>nd</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA-08)*, March 25-28, 2008, Okinawa, Japan.
- *The 4<sup>th</sup> IEEE International Conference on Ubiquitous Intelligence and Computing (UIC-07)*, July 11-13, 2007, Hong Kong, China.
- *The 9<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS-07)*, June 12-16, 2007, Funchal, Madeira, Portugal.
- *The 2007 IEEE International Symposium on Ubiquitous Computing and Intelligence (UCI-07)*, Publicity Co-chair, May 21-23, 2007, Niagara Falls, Ontario, Canada.
- *The 2<sup>nd</sup> IEEE International Symposium on Pervasive Computing and Ad Hoc Communications (PCAC-07)*, May 21-23, 2007, Niagara Falls, Ontario, Canada.
- *The 21<sup>st</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA-07)*, May 21-23, 2007, Niagara Falls, Ontario, Canada.
- *2007 International Conference on Multimedia and Ubiquitous Engineering (MUE-07)*, April 26-28, 2007, Seoul, Korea.
- *The 3<sup>rd</sup> IFIP International Conference on Ubiquitous Intelligence and Computing (UIC-06)*, September 3-6, 2006, Wuhan and Three Gorges, China.
- *The 8<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS-06)*, May 23-27, 2006, Paphos, Cyprus.
- *The Second International Symposium on Ubiquitous Intelligence and Smart Worlds (UISW-05)*, also Session Chair, December 6-7, 2005, Nagasaki, Japan.
- *The 2005 IEEE International Conference on Information Technology: Research and Education (ITRE-05)*, June 27-30, 2005, Hsinchu, Taiwan.
- *International Workshop on Ubiquitous Computing (IWUC 2005)*, May 24-25, 2005, Miami, FL, USA.
- *The 7<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS-05)*, May 24-28, 2005, Miami, FL, USA.
- *IEEE SoutheastCon 05*, also *Intelligent Information Systems* track chair, April 8-10, 2005, Fort Lauderdale, FL, USA.

- *The 2004 International Conference on Artificial Intelligence*, June 21-24, 2004, Las Vegas, NV, USA.
- *The 2004 International Conference on Software Engineering Research and Practice*, June 21-24, 2004, Las Vegas, NV, USA.
- *The 2004 International Conference on Internet Computing*, June 21-24, 2004, Las Vegas, NV, USA.
- *The 2004 International Conference on Pervasive Computing and Communications*, June 21-24, 2004, Las Vegas, NV, USA.
- *The 2003 International Conference on Artificial Intelligence*, June 23-26, 2003, Las Vegas, NV, USA.
- *The 13<sup>th</sup> International Conference on Industrial and Engineering Application of Artificial Intelligence and Expert Systems (IEA/AIE-2000)*, also Local Arrangements Chair, June 19-22, 2000, New Orleans, LA, USA.

## PROFESSIONAL MEMBERSHIPS

- Institute of Electrical and Electronics Engineers, senior member
- Association of Computing Machinery, member
- Sigma Xi, Scientific Research Society, full member
- Upsilon Pi Epsilon, honor society in Computer Science, member

## COURSES TAUGHT

### **Central Connecticut State University (2005-present)**

- CS 110 – Introduction to Internet Programming and Applications
- CS 113 – Introduction to Computers
- CS 290 – Mobile Game Development (Selected Topics in CS)
- CS 354 – Digital Systems Design
- CS 355 – Systems Programming
- CS 410 – Software Engineering
- CS 415 – Agile Game Development
- CS 455 – Secure Software Development
- CS 490 – Computer Communication Networks and Distributed Processing
- CS 502 – Computing and Communications Technology
- CS 530 – Advanced Software Engineering

### **Columbus State University (1999-2005)**

- CPSC 1301 – Introduction to Computer Science I
- CPSC 1302 – Introduction to Computer Science II
- CPSC 2108 – Data Structures

- CPSC 2125 – Introduction to Web Development
- CPSC 3117 – Visual Basic .NET Programming
- CPSC 3132 – Database Systems II
- CPSC 3555 – Media Design for the Web (Selected Topics in CS)
- CPSC 4175 – Software Engineering
- CPSC 4176 – Senior Software Engineering Project
- CPSC 5138 – Advanced Database Systems
- CPSC 5157 – Computer Networks
- CPSC 5185 – Artificial Intelligence
- CPSC 5555 – Java Multimedia Applications (Selected Topics in CS)
- CPSC 5555 – C# Internet Programming (Selected Topics in CS)
- CPSC 5555 – Advanced Visual Basic .NET Programming (Selected Topics in CS)
- CPSC 6119 – Object-Oriented Development with Components
- CPSC 6137 – Distributed Software Architecture and Design
- CPSC 6157 – Network Management
- CPSC 6159 – Computer Forensics
- CPSC 6166 – Distributed Enterprise Software Development
- CPSC 6177 – Advanced Software Design
- CPSC 6555 – Data Mining (Selected Topics in CS)
- CPSC 6555 – Data Warehousing (Selected Topics in CS)
- CPSC 6555 – Decision Support Systems (Selected Topics in CS)

### **University of Louisiana, Lafayette (1996-1999)**

- CMPS 405 – Fundamental Principles of Computer Programming

## **SERVICE ACTIVITIES**

### **ABET**

- Program Evaluation Volunteer (2014-present)
- Computing Accreditation Commission, Team Chair (2021-present)

### **Central Connecticut State University**

- CCSU Grants and Funded Research Director Search Committee, member (2022)
- CCSU CIO Search Committee, member (2019)
- CCSU SEST Dean Search Committee, member (2018-2019)
- CCSU President’s Advisory Committee on Environmental Sustainability, member (2010-2014)
- CCSU Faculty Senate, member (2007-2011)
- CCSU Faculty Senate Elections Committee, member (2008-2009)
- CCSU Information Technology Committee, member (2006-present), vice chair (2007-2009)

- CCSU Information Technology Governance Committee, vice chair (2008-2010)
- CCSU Search Committee for the Director of Grants and Funded Research, member (2010)
- CSU Academic Computing Conference, Steering Committee, member (2007-2008)
- Computer Science Department faculty search committee, member (2007, 2011, 2015, 2021)
- Computer Science Department curriculum committee, member (2005-present)
- Department representative at the Undergraduate Open House (2006, 2009)

### **Columbus State University**

- Computer Science faculty search committee, chair (2003-2005)
- Computer Science, Mathematics and Philosophy faculty search committees, member (1999-2003)
- Computer Science graduate curriculum committee, member (2002-2005)
- Computer Science graduate admissions committee, member (2002-2005)
- Computer Science assessment committee, member (2002-2005)
- Computer Science tutoring services, supervisor (1999-2002)
- College of Science tenure and promotion committee, member (2004-2005)
- CSU athletic committee, member (2001-2003)
- CSU publications committee, member (2003-2005)
- CSU graduate council, member (2002-2005)
- Columbus Science Fair, judge (2000-2004)