

School of Computer Science  
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## EDUCATION

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Ph.D. Computer Science, Illinois Institute of Technology, Chicago, IL, 1991.  
M.S. Computer Science, Missouri University of Science and Technology, Rolla, MO, 1986.  
B.S. Computer Science, Northwestern University, Evanston, IL, 1983

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## RESEARCH INTERESTS

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Multimedia and network systems design for secure service delivery; mobile computing; programming languages; human-computer interaction (HCI).

Computer science and information technology education research for broadening participation in computing.

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## PROFESSIONAL EXPERIENCE

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Kean University, Hennings College of Science, Mathematics, and Technology <i>Professor of Computer Science</i> <i>Executive Director (Founding), School of Computer Science &amp; Technology</i> <i>Chair, Department of Computer Science &amp; Technology</i> <i>Director, Kean University Multimedia and Network Laboratory</i> <i>Coordinator, Information Technology Program</i>	Union, NJ  January 2017 - present September 2011 - 2016 September 2006 – present September 2008 – 2011
Stevens Institute of Technology, School of Applied Sciences and Liberal Arts  <i>Associate Professor of Computer Science,</i> <i>Research Associate Professor of Computer Science</i>	Hoboken, NJ  September 1999- June 2002 January 1995- August 1999
Stevens Institute of Technology, School of Applied Sciences and Liberal Arts <i>Associate Dean for Research and Development</i> <i>Director, Advanced Telecommunications Institute (ATI)</i> <i>Director, Multimedia Laboratory, ATI</i>	Hoboken, NJ September 1999- June 2000 January 1998- June 2000 January 1995- Dec 1997
Northeastern Illinois University, College of Arts and Sciences <i>Assistant Professor of Computer Science</i>	Chicago, IL September 1991- June 1997
Sears Communications Network (STS/Advantis/IBM) <i>Project Manager, Network Design</i>	Arlington Heights, IL January 1987- June 1989
McDonnell Douglas Corporation <i>Senior Telecommunications Engineer</i>	St. Louis, MO January 1983- Dec 1986

## PATENT

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“*Processing Database Information Having Nonwhite Noise*”, U.S. Patent #5,410,492, with K. Gross, granted 1995. Work conducted at Argonne National Laboratory; patent successfully commercialized.

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## HONORS AND AWARDS

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Fellow, American Association for the Advancement of Science (AAAS), 2018.  
Council on Undergraduate Research (CUR) Faculty Mentoring Award, Math and Computer Science, 2016.  
Kean University Faculty Research Mentor of the Year, 2013.  
Best Paper IEEE AINA “Design of a Mobile Ad Hoc Communication App for Disaster Recovery”, 2014.  
Best Paper IEEE ATM, “Adaptive Mobile Network Protocol – Extending Hybrid IP/ATM”, 1999.

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## HONORS AND AWARDS received by my students or programs

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National Cyberwatch 2020 Innovations Award (Practice), Center for Cybersecurity, Kean. (**P. Morreale**, co-Lead)

CRA-W Scholarship for Women Studying Information Security (\$2,000), Kingberli Capellan, 2018. (**P. Morreale**, Undergraduate Advisor)

NSF Graduate Research Fellowship, Yerika Jimenez, 2016 (**P. Morreale**, Undergraduate Advisor)

NSF Graduate Research Fellowship, Marvin Andujar, 2014 (**P. Morreale**, Undergraduate Advisor)

GEM Ph.D. Fellowship (\$16,000 first year, Intel summer internship), Yerika Jimenez, 2014. (**P. Morreale**, Advisor)

GEM Ph.D. Fellowship (\$16,000 first year, Intel summer internship), Marvin Andujar, 2013. (**P. Morreale**, Advisor)

Google Hispanic College Fund Scholarship Award (\$10,000), Rosangela Arlequin, 2012. (**P. Morreale**, Advisor)

Grace Hopper Poster Presentations, 2012, 2013, and 2014 [4 posters total]. (**P. Morreale**, Advisor)

Phi Kappa Phi (Kean Chapter) awards (numerous) for research paper excellence (detailed in *Projects Supervised*)

Undergraduate Research Award, *Kean University*, Isabel Morais, 2019. (**P. Morreale**, Advisor)

Undergraduate Research Award, *Kean University*, Luis Jimenez, 2014. (**P. Morreale**, Advisor)

Undergraduate Research Award, *Kean University*, Frank Kendall, 2010. (**P. Morreale**, Advisor)

Undergraduate Research Award, *Kean University*, Ryan Suleski, 2009. (**P. Morreale**, Advisor)

Best Undergraduate Research Award, *IEEE Supercomputer '08*, Ryan Suleski, *Implementation and Assessment of a Wireless Network for Environmental Sensing*, 2008. (**P. Morreale**, Advisor)

Best Electrical and Computer Engineering Project, *Stevens Institute of Technology*, Senior Design Capstone, *Wireless Car Media Player*, 2000. (**P. Morreale**, Advisor)

Best Electrical and Computer Engineering Project, *Stevens Institute of Technology*, Senior Design Capstone, *Honeyweb*, 1999. (**P. Morreale**, Advisor)

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## EXTERNAL RESEARCH FUNDING

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National Science Foundation, *Pathway to Success for Students and Faculty in Computing*, PI, NSF HRD-1928452, \$1,684,277, 2019-2024.

National Science Foundation, *Project ASK: Applying Student Knowledge for Success*, PI, NSF DUE-1355582, \$621,925, 2014-2020.

National Science Foundation, *Hardware for Data Visualization and Exploratory Analysis*, co-PI, NSF MRI-0959504, \$593,820, 2010-2013.

National Science Foundation, *Project ASK: Applying Student Knowledge for Success*, PI, NSF DUE-0804664, \$584,875, 2008–2014.

National Science Foundation, *Engineering and Technology Pathsetting*, PI, NSF CNS-9975889, \$362,000, 1999-2001.

Computing Research Association, *Analyzing Student Understanding of Cyber Security Concepts Using a Brain Computer Interface (BCI)*, Collaborative Research Experience for Undergraduates (CRE-CREU), PI, \$10,500, 2018-2019.

Computing Research Association, *Teaching Computational Thinking (TCT): A Comparison of Alice and Android App Inventor Programming Environments for Hispanic Students*, Collaborative Research Experience for Undergraduates (CRE-CREU), PI, \$15,000, 2011-2012.

Google, *Improving the Outcomes of Hispanics in AP Computer Science*, co-PI, CSER, \$113,000, 2019-2021.

Google, *Building a Community to Introduce Undergraduate Women to CS Research*, PI, exploreCSR, \$18,000, 2019.

Google, *Even More CS Principles@Kean*, PI, CS4HS, \$10,000, 2014.

Google, *CS Principles@Kean*, PI, CS4HS, \$15,000, 2013.

Google, *Beauty and Joy of Computing@Kean*, PI, CS4HS, \$10,000, 2012.

Google, *Teaching Computational Thinking*, PI, CS4HS, \$15,000, 2011.

BRAID Affiliate Program (AnitaB), *Building a Regional Community for Women in CS Research*, PI, \$3,000, 2019.

National Center for Women in Information Technology (NCWIT), *GirlsCodingWithGirls Camp*, \$2,000, 2014.

Verizon Foundation, *Innovative Learning Schools: Computer Science Education*, PI, \$10,000, 2014.

New Jersey Commission on Science and Technology, *Software Engineering for Distributed Computing and Networking*, PI with co-PIs J. Geller (NJIT) and N. Minsky (Rutgers), \$2 million, 2000-2004.

New Jersey Commission on Science and Technology, *Digital Radio as an Enabling Technology for Computing, Communications, and Information Systems*, PI with co-PIs David Goodman (Rutgers), Stuart Schwartz (Princeton), and Richard Haddad (NJIT), \$5.3 million, 1999-2003.

Nortel Networks, Parsippany, NJ, *Telecommunications Research*, PI, \$10,000, 2000.

Panasonic Laboratories, Princeton, NJ, *DVD Multimedia Research*, PI, \$45,000, 1999-2000.

AT&T Research, Florham Park, NJ, *High-Speed Network Evaluation*, PI, \$15,000, 1999.

AT&T Research, Florham Park, NJ *Wireless Network Project*, PI, \$47,700, 1998-1999.

U.S. Air Force, *Situational Awareness Visualization System*, AF97T004, PI, \$100,000, 1997-1998.

U.S. Navy, *Multimedia Educational Development*, PI, \$66,000, 1997.

Allied Signal, Morristown, NJ, *Process Asset Library (PAL)*, PI, \$29,374, 1997.

Allied Signal, Morristown, NJ, *Electronic Database Design*, PI, \$94,500, 1996.

Allied Signal, Morristown, NJ, *Multimedia Research*, PI, \$26,000, 1996.

Bell Atlantic, NJ, *Intelligent Agents*, PI, \$138,100, 1996.

Bell Atlantic, NJ, *ISDN Distance Learning Design*, PI, \$100,000, 1995-1996.

**Grand total funding**

**\$12,040,071**

## BOOKS

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- 1) P. Morreale and J. Anderson, *Software Defined Networking: Design and Deployment*, Taylor and Francis Group, LLC, CRC Press, Boca Raton, FL, 2015, ISBN 1-4822-3863-2.
  - 2) P. Morreale, M. Burnett, A. Gates, J. Cossa, and N. Amato, *REU in a Box: Expanding the Pool of Computing Researchers*, National Center for Women & Information Technology (NCWIT), [www.ncwit.org/reubox](http://www.ncwit.org/reubox), June 2011.
  - 3) P. Morreale and K. Terplan, editors and contributing authors, *The CRC Handbook of Modern Telecommunications*, 2<sup>nd</sup> Edition, CRC Press, Boca Raton, FL, 2009, ISBN 1-4200-7800-3.
  - 4) P. Morreale and K. Terplan, editors and contributing authors, *The CRC Handbook of Modern Telecommunications*, CRC Press, Boca Raton, FL, 2001, ISBN 0-8493-3337-7.
  - 5) K. Terplan and P. Morreale, editors and contributing authors, *The Telecommunications Handbook*, CRC Press, Boca Raton, FL, 2000, ISBN 0-8493-3137-4.
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## BOOK CHAPTERS

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- 6) P. Morreale, Allan Goncalves and Carlos Silva, “Analysis and Visualization of Large Scale Time Series Network Data” (invited chapter), *Modeling and Processing for Next Generation Big Data Technologies and Applications*, edited by Fatos Xhafa and Leonard Barolli, Springer, 2014, ISBN 978-3319091761, pp.211-229 .
  - 7) P. Morreale, “InfoCity: Providing QoS to Mobile Hosts; Mobile Multimedia on the Wireless Internet”, (invited chapter), *Next Generation Wireless Networks*, edited by Sirin Tekinay, Kluwer Academic Publishers, 2000, ISBN 0-7923-7240-9, pp. 109-120.
  - 8) P. Morreale, “Metropolitan Area Networks”, (invited chapter), *Encyclopedia of Computers and Computer History*, edited by Raul Rojas, The Moschovitis Group, December 2000.
  - 9) P. Morreale, “Broadband Support for the Development of Distributed Multimedia Systems”, (invited chapter), *Multimedia over Broadband Networks*, International Engineering Consortium, Chicago, IL, June 1996, pp.127-132.
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## JOURNAL ARTICLES (\* indicates undergraduate student author; † indicates graduate student author)

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- 10) P. Morreale and N. Diplan, “Using Gamification to Encourage Student Success”, *Journal of Computing Sciences in Colleges*, ACM, Vol. 35, No. 8, April 2020, pp 106-115.
- 11) J. Chu, P. Morreale, and M. Press, “Workforce and Career Readiness for Computing and Technology Students”, *Journal of Computing Sciences in Colleges*, ACM, Vol. 35, No. 8, April 2020, pp. 76-86.
- 12) R. Kaur† and P. Morreale, “User-centered design and assessment of a prescription prior authorization processing system”, *International Journal of Electronic Healthcare*, 2018, Vol. 10, No. 3, 2018, pp. 131-158.

- 13) T. Tang, M. Falzarano, and P. Morreale, “Assessment of the Utility of Gesture-Based Applications for the Engagement of Chinese Children with Autism”, *Universal Access in the Information Society*, Springer, June 2018, Vol. 17, Issue 2, pp. 275-290.
- 14) K. Cabrera\*, P. Morreale, and J. Jenny Li, “Computer Science Education: An Assessment of CS Professional Development”, *Journal of Computing Sciences in Colleges*, ACM, Vol. 33. No. 3, January 2018, pp.141-147.
- 15) J. Li and P. Morreale, “Enhancing CS1 Curriculum with Testing Concepts”, *Journal of Computing Sciences in Colleges*, ACM, Vol. 31, No. 3, January 2016, pp. 36-43.
- 16) P. Morreale, A. Goncalves\*, and C. Silva†, “Mobile Ad Hoc Network Communication for Disaster Recovery”, *International Journal for Space-Based and Situated Computing*, 5 (3), 2015, pp. 178-186.
- 17) C. Knezek, P. Morreale, R. Keddis, and R. James, “Ethics in Practice: Research and Technology”, *Council of Undergraduate Research Quarterly*, Volume 36, Number 1, Fall 2015, pp. 4-11.
- 18) K. Miller\* and P. Morreale, “Finding the Needle in the Image Stack: Performance Metrics for Big Data Image Analysis”, *IEEE Multimedia*, Vol. 21, No. 1, Jan-March 2014, pp. 84-89.
- 19) H. Patel\* and P. Morreale, “Education and Learning: Electronic Books or Traditional Printed Books?”, *Journal of Computing Sciences in Colleges*, ACM, Vol. 29, No. 3, January 2014, pp. 21-28.
- 20) M. Andujar\*, L. Jimenez\*, J. Shah\*, and P. Morreale, “Evaluating Visual Programming Environments to Teach Computing to Minority High School Students”, *Journal of Computing Sciences in Colleges*, ACM, Vol. 29, No. 2, December 2013, pp. 140-148.
- 21) P. Morreale, C. Goski\*, L. Jimenez\* and C. Stewart-Gardiner, “Measuring the Impact of Computational Thinking Workshops on High School Teachers”, *Journal of Computing Sciences in Colleges*, ACM, Vol. 27, No. 6, June 2012, pp. 151-157.
- 22) J. Howard\*, O. Padron\*, P. Morreale, and D. Joiner, "Applications of Computational Science: Data Intensive Computing”, *IEEE Computing in Science and Engineering*, Vol. 14, No. 2, March/April 2012, pp. 84-88.
- 23) P. Morreale, F. Qi, and P. Croft, “A Green Wireless Sensor Network for Environmental Monitoring and Risk Identification”, *International Journal on Sensor Networks*, Volume 10, Nos. 1/2, 2011, pp. 73-82.
- 24) P. Morreale, and D. Joiner, “Changing Perceptions of Computer Science and Computational Thinking Among High School Teachers”, *Journal of Computing Sciences in Colleges*, ACM, Vol. 26, No. 6, June 2011, pp. 71-77.
- 25) P. Morreale, and D. Joiner, “Reaching Future Computer Scientists”, *Communications of the ACM*, April 2011, Volume 54, Number 4, pp. 121-124.
- 26) P. Morreale, F. Qi, P. Croft, R. Suleski\*, B. Sinnicke\*, and F. Kendall\*, “Real-time Environmental Monitoring and Notification for Public Safety”, *IEEE Multimedia*, 17(2), April-June 2010, pp.4-11.
- 27) P. Morreale, D. Joiner, and G. Chang, “Connecting Undergraduate Programs to High School Students: Teacher Workshops on Computational Thinking and Computer Science”, *Journal of Computing Sciences in Colleges*, ACM, Volume 25, Number 6, June 2010, pp. 191-197.

- 28) P. Morreale, S. Kurkovsky, and G. Chang, “Methodology for Successful Undergraduate Recruiting in Computer Science at Comprehensive Public Universities”, *ACM Inroads: SIGCSE Bulletin*, 41(1), March 2009, pp. 91-95.
- 29) P. Morreale, G. Chang, and L. Wittenberg, “Transitioning from a Community College to a Four-year University”, *IEEE Computer*, Volume 41, Number 3, March 2008, pp. 89-91.
- 30) K. Sohraby, P. Morreale, M. Fatehi, and V. Lawrence, “Heterogeneous Traffic Transport over Optical Networks”, *Proceedings of SPIE – International Society for Optical Engineering*, Vol. 4233, Sept. 2000, pp. 121-128.
- 31) P. Morreale, K. Sohraby, B. Li, and Y. Lin, “Active, programmable, and mobile code networking”, *IEEE Communications*, Volume 38, Issue 4, April 2000, pp. 104. (**Guest Editor**)
- 32) P. Morreale, K. Sohraby, B. Li, and Y. Lin, “Active, programmable, and mobile code networking”, *IEEE Communications*, Volume 38, Issue 3, March 2000, pp. 122-128. (**Guest Editor**)
- 33) A. Mangla<sup>†</sup>, H. Basrai<sup>†</sup>, P. Punja<sup>†</sup>, and P. Morreale, “Enhancing Call-Detail Reporting Using Multimedia Technologies”, *IEEE Multimedia*, Vol. 5, Number 4, October-December 1998, pp.74-77.
- 34) P. Morreale, “Agents on the Move”, *IEEE Spectrum*, Vol. 35, Number. 4, April 1998, pp. 34-41.
- 35) P. Morreale, R. Deshpande<sup>†</sup>, and A. Kamath<sup>†</sup>, “An Electronic Database Delivery System”, *IEEE Multimedia*, Vol. 4, Number 4, October-December 1997, pp. 63-66.
- 36) P. Morreale and G. Campbell, “Metropolitan Area Networks”, *IEEE Spectrum*, Vol. 27, Number 5, May 1990, pp. 40-42.

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**CONFERENCE PUBLICATIONS (\* indicates undergraduate student author; † indicates graduate student author)**

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- 37) Y. Kumar, J. Li, P. Morreale, R. Kulesza†, E. Weinman\*, R. Ruiz\*, A. Torres\*, “Investigating Deep Learning for Predicting Multi-Linguistic Conversations with a Chatterbot”, *Proceedings of the 2020 IEEE Conference on Big Data and Analytics (ICBDA)*, November 17-19, 2020, to appear.
- 38) M. Bachrach, P. Morreale, and G. Verdi, “Exploration of Pedagogical Interventions to Improve the Outcomes of Hispanics in AP Computer Science”, *Proceedings of the 2020 IEEE Integrated STEM Education Conference (ISEC '20)*, Princeton, NJ, March 28, 2020, to appear.
- 39) K. Capellan\*, M. Condado\*, I. Morais\* and P. Morreale “Analyzing Cybersecurity Understanding using a Brain Computer Interface (BCI)”, *Proceedings of the 22<sup>nd</sup> International Conference on Human Computer Interaction (HCI '20)*, Copenhagen, DE, July 19-24, 2020, LNCS, Springer, pp. 92-104.
- 40) M. Bachrach, G. Verdi, and P. Morreale, “Improving the Outcomes of Hispanics in AP Computer Science”, *Proceedings of the ACM Special Interest Group on Computer Science Education (SIGCSE '20)*, Portland, OR, ACM, 2020, pp. 1411.
- 41) I. Morais\*, M. Condado\*, R. Quinn\*, S. Patel\*, P. Morreale, E. Johnston, and E. Hyde, “Design of a Contextual Digital Wayfinding Environment”, *Proceedings of the 21<sup>st</sup> International Conference on Human Computer Interaction (HCI '19)*, Orlando, FL, July 26-31, 2019, LNCS Springer, pp. 221-232.
- 42) M. Condado\*, I. Morais\*, R. Quinn\*, S. Patel\*, P. Morreale, E. Johnston, and E. Hyde, “Integrating Historical Content with Augmented Reality in an Open Environment”, *Proceedings of the 21<sup>st</sup> Intl. Conf. on Human Computer Interaction (HCI '19)*, Orlando, FL, July 26-31, 2019, LCNS Springer, pp. 196-205.
- 43) V. Jacobson\*, J. J. Li, K. Tapia\*, and P. Morreale, “Visualizing Neural Networks for Pattern Recognition”, *Proceedings of the International Conference of Pattern Recognition and Artificial Intelligence (PRAI 2018)*, Union, NJ, August 15-17, 2018, ACM, pp. 18-22.
- 44) C. Copeland\*, P. Morreale, and J. Li, “M-Health Application Interface Design for Symptom Checking”, *Proceedings of the 10<sup>th</sup> International Conference on e-Health 2018 (EH 2018)*, Madrid, Spain, July 17-19, 2018, pp. 210-214.
- 45) V. Jacobson\*, C. Iglesias\*, and P. Morreale, “User Interface Design and Evaluation of a Mobile Pollen Tracking Application”, *Proceedings of the 12th International Conference on Interfaces and Human Computer Interaction 2018 (IHCI 2018)*, Madrid, Spain, July 18-20, pp. 324-328.
- 46) M. Brattstrom\*, and P. Morreale, “Scalable Agentless Cloud Network Monitoring”, *Proceedings of the 4<sup>th</sup> IEEE International Conference on Cybersecurity and Cloud Computing (CSCloud 2017)*, New York, NY, June 26-28, 2017, pp. 171-176.
- 47) R. Kaur†, P. Morreale, M. Andujar, “SmartPA: An Electronic Solution for Secure Prior Authorization Processing”, *Proceedings of the International Conference of Design, User Experience, and Usability*, Vancouver, Canada, July 12-14, 2017, Springer, pp. 664-676.
- 48) G. Deluca\*, M Brattstrom\*, and P. Morreale, “Designing a Secure e-Health Network System”, *Proceedings of the 10th IEEE International Systems Conference (IEEE SysCon 2016)*, Orlando, FL, April 18-21, 2016, pp. 99-103.

- 49) T. Tang, M. Falzarano, and P. Morreale, “Engaging Chinese Children with Autism to Interact with Portable Hand- and Finger-Gesture Based Applications”, *International Conference on Learning and Collaborating Technologies*, Toronto, Canada, July 17-22, 2016, Springer, pp. 562-572. **(Invited paper)**
- 50) M. Andujar†, P. Morreale, Jimenez, Y.†, Jimenez, L., & Gilbert, J.E., “Evaluation of User’s Neurophysiological Engagement while interacting with Educational Technologies”, *Proceedings of the 7<sup>th</sup> International Conference on Applied Human Factors and Ergonomics (AHFE 2016)*, Advances in Neuroergonomics and Cognitive Engineering. Orlando, FL, July 27-31, 2016, Springer, pp.97-105.
- 51) C. Chen\*, J. Iglasias\*, X. Lin\*, J. Li, P. Morreale, and L. Ness, “Facebook Traffic Pattern Analytics”, *Proceedings of the 3<sup>rd</sup> Multidisciplinary International Social Networks Conference on Social Informatics in Data Science (MISNC SI DS 2016)*. ACM, New York, NY, August 15-17, 2016, Article No. 10.
- 52) J. MacDuffie\*, and P. Morreale, “Comparing Android App Permissions”, *International Conference on Design, User Experience, and Usability*, Toronto, Canada, July 17-22, 2016, Springer, pp. 57-64.
- 53) Y. Rossikova†, J. Li, P. Morreale. “Intelligent Data Mining for Translator Correctness Prediction”, *Proceedings of the IEEE 2<sup>nd</sup> International Conference on Big Data Security on Cloud (BigDataSecurity) and Intelligent Data and Security (IEEE IDS 2016)*, New York City, April 8-10, 2016, pp. 394-399.
- 54) J. Galindo\*, and P. Morreale, “Contextual Presentation and Navigation of Historical Artifacts in a Digital Design Library”, *Proceedings of the 18th International Conference on Human-Computer Interaction (HCI)*, Toronto, Canada, July 17-22, 2016, Springer, pp. 204-210.
- 55) C. Huang and P. Morreale, “A Web-based, Self-Controlled Mechanism to Support Students Learning SQL”, *Proceedings of the IEEE Integrated STEM Education Conference (ISEC 2016)*, Princeton, NJ, March 5, 2016, pp. 218-223.
- 56) P. Morreale, J. McAllister\*, S. Mishra†, and T. Dowluri†, “Turning Leaf: Eco-visualization for Mobile User Engagement”, *Proceedings of the 6<sup>th</sup> International Conference on Ambient Systems, Networks, and Technologies (ANT-2015)*, Procedia Computer Science, Elsevier, Vol. 52, London, UK, June 2-5, 2015, pp. 690-694.
- 57) L. Jimenez\*, and P. Morreale, “Mobile Assistive Technology: Mapping and Integration”, *Proceedings of the 17th International Conference on Human-Computer Interaction (HCI)*, Lecture Notes in Computer Science series, HCI(7), Springer Computer Science, Los Angeles, CA, August 2-7, 2015, pp. 306-317.
- 58) P. Morreale, J. Li, J. McAllister\*, S. Mishra†, and T. Dowluri†, “Mobile Persuasive Design for HEMS Adaptation”, *Proceedings of the 5<sup>th</sup> International Conference on Sustainable Energy Information Technology (SEIT-2015)*, Procedia Computer Science, Elsevier, Vol. 52, London, UK, June 2-5, 2015, pp.764-771.
- 59) Y. Rossikova\*, J. Li, P. Morreale, “Predicting Correctness of “Google Translate””, *Proceedings of 17<sup>th</sup> International Conference on Artificial Intelligence (ICAI ’15)*, CSREA Press, Las Vegas, NV, July 27-30, 2015, pp. 825-826.
- 60) Y. Jimenez\* and P. Morreale, “Social Media Use and Impact on Interpersonal Communication”, *Proceedings of the 17th International Conference on Human-Computer Interaction (HCI)*, Lecture Notes in Computer Science, HCI (28), Los Angeles, CA, August 2-7, 2015, Springer, pp.91-96.
- 61) C. Huang and P. Morreale, “An Integrated Automatic Compiling System for Student Feedback on Java Programs”, *Proceedings of the IEEE Integrated STEM Education Conference (ISEC ’15)*, Princeton, NJ, March 7, 2015, pp. 201-204.



- 62) A. Goncalves\*, C. Silva\*, and P. Morreale, “Design of a Mobile Ad Hoc Communication App for Disaster Recovery”, *Proceedings of the 28<sup>th</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA '14)*, Victoria, Canada, May 13-16, 2014, pp.121-126. (**Best paper award**)
- 63) A. Goncalves\*, C. Silva\*, P. Morreale, and Jason Bonafide\* “Crowd Sourcing for Public Safety”, *Proceedings of the 8th IEEE International Systems Conf.*, Ottawa, Ontario, Canada, March 31-April 3, 2014, pp. 50-56.
- 64) P.Morreale, D. Church\*, A. Goncalves\*, S. Holtz\*, J. Lisojo\*, N. Lozano\*, C. Silva\*, and J. Bonafide\*, “Visual and Spatial Data Integration in Mobile Application Design”, *International Conference on Learning and Collaborative Technologies*, Crete, Greece, June 22-27, 2014, Springer, pp. 173-181. (**Invited paper**)
- 65) J. Landy\*, T. Lopez\*, N. Ndee†, P. Predaswad†, E. Lozano\*, and P. Morreale, “Finding Directions to a Good GPS System”, *Proceedings of the 16<sup>th</sup> International Conference on Human-Computer Interaction (HCI)*, Crete, Greece, June 22-27, 2014, Springer, pp.454-465.
- 66) J. Li, P. Morreale, and J. Palframan, “Diagnosis-Guided Regression Test Refinement”, *Proceedings of the 8<sup>th</sup> IEEE International Conference on Software Security and Reliability (SERE 2014)*, San Francisco, CA, June 30-July 2, 2014, pp. 64-70.
- 67) J. Li and P. Morreale, “Enhancing Computer Science Programming Courses to Prepare Students for Software Engineering”, *Proceedings of the 2014 American Society of Engineering Educators (ASEE) Conference*, Indianapolis, IN, June 15-18, 2014.
- 68) Y. Jimenez\*, and P. Morreale, “Design and Evaluation of a Predictive Model for Smart Phone Selection”, *Proceedings of the 15<sup>th</sup> International Conference on Human-Computer Interaction (HCI), Lecture Notes in Computer Science series*, HCI(12), Springer Computer Science, Las Vegas, July 21-26, 2013, pp. 376-384.
- 69) M. Andujar†, J. Ekandeam†, J. Gilbert, P. Morreale, “Evaluating Engagement Physiologically and Knowledge Retention through Two Different Learning Techniques”, *Proceedings of the 15th International Conference on Human-Computer Interaction (HCI), Lecture Notes in Computer Science series*, HCI(2), Volume 8005, Springer Computer Science, Las Vegas, July 21-26, 2013, pp. 335-342.
- 70) P. Morreale, S. Holtz\*, and A. Goncalves\*, “Data Mining and Analysis of Large Scale Time Series Network Data”, *Proceedings of the 27<sup>th</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA '13)*, Barcelona, Spain, March 25-28, 2013, pp. 39-43.
- 71) M. Andujar\*, L. Aguilera\*, L. Jimenez\*, F. Zabe\*, J. Shah\*, Y. Jimenez\*, and P. Morreale, “Attracting High School Students to Computing: A Case Study with Drag-Drop Interfaces”, *Proceedings of the World Conference on Educational Multimedia, Hypermedia and Telecommunications*, AACE: Chesapeake, VA, Denver. CO, June 26-29, 2012, pp. 525-530.
- 72) S. Holtz\*, G. Valle\*, J. Howard†, and P. Morreale, "Visualization and Pattern Identification in Large Scale Time Series Data", *IEEE Symposium on Large Scale Data Analysis and Visualization (LDAV 2011)*, Providence, RI, October 23-24, 2011, pp. 17-18.
- 73) P. Morreale, J. Callegari\*, G. Valle\*, and F. Kendall\*, “Sensor Integration and Analysis for Visual Identification of Environmental Patterns”, *Proceedings of the 5<sup>th</sup> IEEE International Systems Conference*, Montreal, Quebec, Canada, April 4-7, 2011, pp. 7-12.
- 74) F. Kendall\* and P. Morreale, “SPF-Net: A Scalable Protocol for Flexible Sensor Networks”, *Proceedings of the 33<sup>rd</sup> IEEE Sarnoff Symposium*, Princeton, NJ, April 12-14, 2010.

- 75) J. Callegari\* and P. Morreale, “Assessment of the Utility of Tag Clouds for Faster Image Retrieval”, *Proceedings of the 11<sup>th</sup> ACM SIGMM International Conference on Multimedia Information Retrieval (MIR '10)*, Philadelphia, PA, March 29-31, 2010, pp. 437-440.
- 76) P. Medicherla\*, G. Chang, and P. Morreale, “Visualization for Increased Understanding and Learning using Augmented Reality”, *Proceedings of the 11<sup>th</sup> ACM SIGMM International Conference on Multimedia Information Retrieval (MIR '10)*, Philadelphia, PA, March 29-31, 2010, pp. 441-444.
- 77) G. Chang, P. Morreale, and P. Medicherla\*, "Applications of Augmented Reality Systems in Education," *Proceedings of the 21<sup>st</sup> International Conference of the Society for Information Technology and Teacher Education (SITE '10)*, San Diego, CA, March 29-April 2, 2010, pp. 1380-1385.
- 78) P. Croft, F. Qi , P. Morreale, and A. Trzopek\*, “UrbanNet: Urban Environmental Monitoring and Modeling with a Wireless Sensor Network”, *Proceedings of the 90<sup>th</sup> Annual American Meteorological Society (AMS) Meeting*, Atlanta, Georgia, January 17-21, 2010, J3.2.
- 79) P. Morreale, F. Qi, P. Croft, G. Chang, J. Czarnik\*, N. Doell\*, J. Espin\*, and R. Suleski\*, “Real-time Contextual Representation of Sensor Network Data for Environmental Trend Identification”, *Proceedings of the 23<sup>rd</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA '09)*, Bradford, UK, May 26-29, 2009, pp. 407-412.
- 80) P. Morreale, “Street CORNERS: An Architecture for Correlation of Networked Environmental Sensors”, *Proceedings of the 2<sup>nd</sup> IEEE International Systems Conference*, Montreal, Quebec, Canada, April 7-10, 2008, pp. 387-392.
- 81) P. Morreale, “Wireless Sensor Network Applications in Urban Tele-Health”, *Proceedings of the 21<sup>st</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA '07)*, Niagara Falls, Ontario, CA, May 21-23, 2007, pp.810-814.
- 82) E. Tse-Au<sup>†</sup> and P. Morreale, “End-to-End QoS Measurement: Analytic Methodology of Application Response Time vs. Tunable Latency in IP Networks”, *Proceedings of IEEE/IFIP Network Operations and Management Symposium (NOMS 2000)*, April 11-13, 2000, Honolulu, Hawaii, pp.129-142.
- 83) C. Iaccarino\*, D. Perrozzi\*, M. Sigel\*, A. Staikos\*, R. Taylor, Jr.\* , and P. Morreale “HoneyWeb: Embedded Web-based Control Applications”, *Proceedings of the IEEE 20<sup>th</sup> Real-Time Systems Symposium*, Phoenix, AZ, December 1-3, 1999, pp. 214-217.
- 84) R. Kazi<sup>†</sup> and P. Morreale, “Mobile Agents for Active Network Management”, *Proceedings of IEEE MILCOM '99 (Volume 1)*, Atlantic City, NJ, October 31-November 3, 1999, pp. 149-153.
- 85) K. Malick\*, C. Giammarco\*, and P. Morreale, “Wireless QoS Assurance for Network Survivability”, *Proceedings of IEEE MILCOM '99 (Volume 2)*, Atlantic City, NJ, Oct. 31-Nov 3, 1999, pp. 893-896.
- 86) P. Morreale, “Modeling Multimedia Traffic Between Network Segments”, *Proceedings of the 3<sup>rd</sup> Operations Research Society of America (INFORMS) Telecommunications Conference*, Boca Raton, FL, March 20-22, 1995, p. 255.
- 87) P. Morreale, “A Quantitative Model of a Network for Multimedia Service Delivery”, *Proceedings of the IASTED/ISMM International Conference on Distributed Multimedia Systems and Applications*, Honolulu, HI, August 15-17, 1994, pp. 41-44.
- 88) P. Morreale, “An Analytic Model of a Residential Metropolitan Area Network”, *Proceedings of the 9<sup>th</sup> International Conference on Advanced Science and Technology (ICAST)*, Chicago, IL, March 27, 1993, pp. 97-101.

- 89) P. Morreale, “Experience Report on the Design and Implementation of a Multimedia Metropolitan Area Network”, *Proceedings of the 9<sup>th</sup> International Conference on Advanced Science and Technology (ICAST)*, Chicago, IL, March 27, 1993, pp. 111-124.

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**WORKSHOP PUBLICATIONS (\* indicates undergraduate student author; † indicates graduate student author)**

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- 90) Y. Yang<sup>†</sup> and P. Morreale, “Multiple Frequency Band Deployment for Mobile ATM Access Networks”, *Second IEEE International Workshop on Wireless Mobile ATM Implementations*, San Francisco, CA, June 1999.
- 91) Y. Yang<sup>†</sup>, and P. Morreale, “Adaptive Mobile Network Protocol – Extending the Idea of Hybrid IP/ATM for General Mobile Network”, *IEEE ATM Workshop '99*, Kochi City, Kochi, Japan, May 24-27, 1999. **Winner, IEICE “Best Paper” Award (50,000 yen).**
- 92) P. Morreale, “Agents for Network Monitoring”, *Symposium on Information and Data Hiding*, NJIT '99, May 1999.
- 93) K. Sohraby and P. Morreale, “Application Specific Functions in Active Networks”, *Proceedings of the 13<sup>th</sup> IEEE Workshop on Computer Communications*, Oxford, Mississippi, October 11-14, 1998.
- 94) A. Chandra<sup>†</sup> and P. Morreale, “Dynamic Deployment of Protocols in an Active Network”, *IEEE International Conferences on Communications (ICC) Workshop on Active and Programmable Networks*, Atlanta, GA, June 7-11, 1998.
- 95) P. Morreale, “Distributed Multimedia Education with Real-time Feedback”, *Proceedings of the First IEEE Workshop in Multimedia Signal Processing*, pp. 507-512, June 23-25, 1997, Princeton, NJ.
- 96) S Ghosh<sup>†</sup>, P. Morreale, and N. Mir, “An Identification Technique for Agent Mobility in ATM Network Management”, *Proceedings of the IEEE ATM Workshop '95*, Washington, D.C., Oct 30- Nov 1, 1995.
- 97) P. Morreale, “Constraints on the Development of Residential Metropolitan Area Network Applications in the United States”, *Proceedings of the 5<sup>th</sup> IEEE Workshop on Metropolitan Area Networks*, Taromina, Italy, May 10-13, 1992.
- 98) P. Morreale, “Residential Metropolitan Area Networks”, *Proceedings of the 4<sup>th</sup> IEEE Workshop on Metropolitan Area Networks*, Captiva Island, Florida, November 4-7, 1990.

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**POSTER PRESENTATIONS (\* indicates undergraduate student author, † indicates graduate student author)**

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- 99) P. Morreale, N. Diplan, and D. York, “A Gamification Pathway for Computer Science Student Success”, *Proceedings of the 24<sup>th</sup> Annual ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2019)*, July 15-17, 2019, Aberdeen, Scotland, UK, p. 317.
- 100) M. Condado\*, S. Patel\*, I. Morais\*, R. Quinn\*, P. Morreale and E. Johnston, “Traversing Historical Content with Augmented Reality in an Outdoor Environment”, *Great Minds in STEM/HENAAC Conference*, October 17-19, 2018, Pasadena, CA.
- 101) R. Vachhani\*, J. Li, and P. Morreale, “Data Analytics to Predict Notification of System Performance”, *Grace Hopper Computing Conference*, October 8-10, 2014, Phoenix, AZ.

- 102) N. Lozano\*, D. Church\*, C. Silva\*, D. Das\*, A. Goncalves\*, S. Holtz\*, H. Liao\*, J. Lisojo\*, J. Shah\*, J. Bonafide\*, and P. Morreale, “Comparative case study of mobile application design: Apple iOS vs Google Android”, *Grace Hopper Computing Conference*, October 2-5, 2013, Minneapolis, MN.
- 103) Y. Jimenez\* and P. Morreale, “Design and Evaluation of a Predictive Model for Smartphone Selection”*Grace Hopper Computing Conference*, October 2-5, 2013, Minneapolis, MN.
- 104) M. Andujar\*, L. Aguilera\*, Y. Jimenez\*, F. Zabe\*, P. Morreale, “Improving Hispanic High School Student Perceptions of Computing”, *Proceedings of the 44th ACM Technical Symposium on Computer Science Education (SIGCSE’13)*, Denver, CO, March 6-9, 2013, p. 741.
- 105) L. Aguleria\*, M. Andujar\*, L. Jimenez\*, F. Zabe\*, J. Shah\*, Y. Jimenez\*, and P. Morreale, “Innovative Programming Environments: A Comparative Study of Alice & Android App Inventor with High School Students”, *Grace Hopper Computing Conference*, October 3-6, 2012, Baltimore, MD.
- 106) R. Arlequin\* and P. Morreale, “Analysis of the Real-time Performance of an Android Application”, *Society of Hispanic Professional Engineers (SHPE) Conference*, Anaheim, CA, October 26-30, 2011.
- 107) P. Croft, F. Qi, P. Morreale, S. Docherty\*, T. Giordano\*, J. Crocker\*, “Community Environmental Networks for Risk Identification and Management”, *Annual Meeting of the National Weather Association*, Tucson, AZ, October 2-7, 2010, P0.4.
- 108) M. Andujar\* and P. Morreale, “Interface Design for Scientists: A Case Study using Carbon Sequestration Models”, *Proceedings of the 11<sup>th</sup> National Conference for McNair Scholars and Undergraduate Research*, College Park, Maryland, March 11-14, 2010, p. 70.
- 109) F. Kendall\*, B. Sinnicke\*, R. Suleski\*, and P. Morreale, “Knowledge Discovery from Sensor Data for Environmental Information”, *Proceedings of the IEEE International Conference on High Performance Computing, Networking, Storage, and Analysis (IEEE SC ’09)*, Portland, OR, Nov. 14-20, 2009, p. 60.
- 110) M. Andujar\* and P. Morreale, “Interface Design for Scientists: A Case Study using Carbon Sequestration Models”, *Society of Hispanic Professional Engineers (SHPE) Conference*, Washington, D.C., October 28-November 1, 2009.
- 111) M. Andujar\*, P. Morreale, and G. Chang, “Alice vs. Java: Determining the Best Entry Point into Undergraduate Computer Science Education”, *Proceedings of the 23<sup>rd</sup> Annual Ronald E. McNair Commemorative Symposium*, North Carolina A&T, Greensboro, North Carolina, January 28-30, 2009.
- 112) M. Andujar\*, G. Johnson\*, G. Chang and P. Morreale, “How 3-D Software is Attracting Students to Computer Science”, *Proceedings of the Sixth Annual National McNair Scholars Research Conference*, University of Delaware, Newark, Delaware, October 3-4, 2008, p. 49.
- 113) P. Morreale, G. Chang, and L. Wittenberg, “Encouraging Successful Transition in Computer Science from Community College to University”, *Proceedings of the 39<sup>th</sup> ACM Technical Symposium on Computer Science Education (SIGCSE’08)*, Portland, Oregon, March 2008, p. 565.

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## INVITED TALKS AND PRESENTATIONS

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**P. Morreale**, *Establishing and Managing CAHSI’s Virtual Research Experiences for Undergraduates*, 2020 Arizona Internship Summit: A Guide to Moving Forward for Industry and Education, Arizona State University, virtual, Sept. 17, 2020.

- P. Morreale** with D. Kwak, R. Hasan, *Building and Scaling Undergraduate Research*, 20<sup>th</sup> Annual Council on Undergraduate Research (CUR) Biennial Conference, West Lafayette, IN, June 28, 2020.
- P. Morreale**, with C. Knezek and H. Haeger, *Assessing the Impact of Undergraduate Research in STEM Education*, 20<sup>th</sup> Annual Council on Undergraduate Research (CUR) Biennial Conference, West Lafayette, IN, June 28, 2020.
- P. Morreale**, *Cybersecurity Pathways*, New Jersey Cybersecurity and Communications Integration Cell (NJCCIC) Cybersecurity Conference, Union, NJ, September 28, 2018.
- P. Morreale** with J. Barthell, M. Dorff, M. Jackson, and P. Rault, *Sharing and Reflecting on the Institutional Models which support Undergraduate Research*, 19<sup>th</sup> Annual Council on Undergraduate Research (CUR) Biennial Conference, Washington, D.C., July 1, 2018.
- P. Morreale**, *Using Effective Messaging for Recruiting and Retention*, Engage IT Advisory Board Flash Talk, 2018 NCWIT Summit Meeting, Grapevine, TX, May 15, 2018.
- P. Morreale**, *CS and IT Careers: The Places You'll Go*, NJ Department of Education Career Awareness Day, Kean University, Union, NJ, June 7, 2017. [Presentations to both 7<sup>th</sup> graders (day) and parents (evening).]
- P. Morreale**, *Connecting High School Teachers to CS: Reaching Teachers, Reaching Students*, NCWIT Academic Alliance Lightning Talk, 2017 NCWIT Summit Meeting, Tucson, Arizona, May 22, 2017.
- P. Morreale**, *Increasing Diversity in Computer Science: Teachers, Students, and Programs*, 2017 CS Summit on Scalability and Diversity, Rutgers University, Piscataway, NJ, May 12, 2017.
- P. Morreale**, *Computer Science Success Stories*, 3<sup>rd</sup> Kentucky Community College - Women in Computing Conference, (KYCC-WiC), Bluegrass Community College, Lexington, KY, March 30-31, 2017.  
*Invited and funded by the CRA-W Distinguished Lecture Series (DLS).*
- P. Morreale**, *Building Undergraduate Research with Diversity and Inclusion: Simple Steps Lead to Measurable Outcomes*, 18<sup>th</sup> Annual Council on Undergraduate Research (CUR) Biennial Conf., Tampa, FL, June 26, 2016.
- P. Morreale**, *Undergraduate Research in Computing*, Division of Engineering Technology and Computer Sciences, Essex County College, Newark, NJ, Friday, May 6, 2016.
- P. Morreale**, *Computer-Assisted Techniques for e-Health*, Invited Panel Discussion, 10<sup>th</sup> Annual IEEE International Systems Conference, Orlando, Florida, April 19, 2016.
- P. Morreale**, *Building Partnerships for Computer Science Teacher Professional Development*, Google CS4HS program, Hangout on Air (HOA), January 19, 2016.
- P. Morreale**, *Building Undergraduate Programs: Creative High School Outreach*, Kean University, May 27, 2015.
- P. Morreale**, *Strategies for Preparing NSF S-STEM Proposals*, Community College Outreach Project, Academic Alliance, 2015 National Center for Women and Information Technology (NCWIT) Summit Academic Alliance Meeting, Hilton Head, S.C, May 19, 2015.
- P. Morreale**, *Innovations in Health Care Technology*, NJ Technology Entrepreneurship Network, Kean University, March 13, 2014.
- P. Morreale**, *Science Research Funding*, Research and Funding Workshop Series, Office of Research and Sponsored Projects, Kean University, March 4, 2014.
- P. Morreale**, *Future of Computer Science Education*, Chatham STEM Computer Science Forum, Chatham, NJ, December 15, 2013.

- P. Morreale** (with S. Gannon), *Measurable Benefits to the University from Undergraduate Research*, 14<sup>th</sup> Annual Council on Undergraduate Research (CUR) Biennial Conf., Ewing, NJ, June 26, 2012.
- P. Morreale**, *Research Experiences for Undergraduates (REUs) Faculty Mentoring Awards*, 2012 National Center for Women and Information Technology (NCWIT) Summit Academic Alliance Meeting, Chicago, IL, May 2012.
- P. Morreale**, *Research Experiences for Undergraduates (REUs)*, 2011 National Center for Women and Information Technology (NCWIT) Summit Academic Alliance Meeting, New York City, May 24, 2011.
- P. Morreale**, *Street CORNERS: Real-time Contextual Representation of Sensor Network Data for Environmental Trend Identification*, Bell Laboratories, Murray Hill, NJ, December 17, 2008.
- P. Morreale**, *Wireless Sensor Network Applications in Urban Tele-Health*, AT&T Research, Florham Park, NJ, May 15, 2007.
- P. Morreale**, *Delegated Mobile Agents in Active Networks for Differentiated Service Delivery*, Department of Computing, Imperial College of Science and Technology, London, UK, July 13, 2001.
- P. Morreale**, *InfoCity: Mobile Multimedia on the Wireless Internet*, Symposium on Next Generation Wireless Networks: Defining Applications and Services for the Next Generation, NJIT, Newark, NJ, May 26, 2000.
- P. Morreale**, *Emerging Telecommunications Technologies*, Center for Improved Engineering and Science Education (CIESE), Stevens Institute of Technology, Hoboken, NJ, May 17, 2000.
- P. Morreale**, *Agents for Network Monitoring*, Symposium on Content Security and Data Hiding in Digital Media, NJIT, Newark, NJ, May 14, 1999.
- P. Morreale**, *“Partnering for the Information Age: University Research Partnerships”*, 1999 Defense Forum Seminar, CECOM Research and Development Center (RDEC), Ft. Monmouth, NJ, April 23, 1999.
- P. Morreale**, *Mobile Agents for Wireless Communications*, IEEE Vehicular Technology Society, Whippany, NJ, April 6, 1999.
- P. Morreale**, *Doing Business on the Internet: Leveraging Technology for Success*, Stevens Institute of Technology, Hoboken, NJ, March 1999.
- P. Morreale**, *Broadband Service Models: Service Provisioning Using Mobile Agents*, Integrated Broadband Networks '98, Chicago, IL, August 1998.
- P. Morreale**, *Wireless Systems, Mobile Agents, and Applications*, U.S. Army Communications and Electronic Command (CECOM), Ft. Monmouth, NJ, May 1998.
- P. Morreale**, *Mobile Agents for Distributed Multimedia Systems*, Distributed Artificial Intelligence Unit, Department of Electronic Engineering, Queen Mary and Westfield College, University of London, July 1997.
- P. Morreale**, *Distance Learning: Education for a Distributed Workforce*, U.S. Navy, Washington, D.C., Feb. 1997.
- P. Morreale**, *Multimedia System Design for Distance Education Support*, Siemens Corporate Research, Feb. 1997.
- P. Morreale**, *Distributed Network Design for Information Delivery*, New Jersey Institute of Technology, March 1996.

## INVITED PARTICIPANT (Selected)

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- NSF Workshop on *Building Research Capacity at Hispanic-Serving Institutions*, Orlando, FL, July 9-10, 2019  
NSF Workshop on *POSSE - Professors' Open Source Software Experience*, John Jay College-CUNY, New York, NY  
January 9-10, 2019  
NSF Workshop on *Authentic Inclusion of Community Colleges in Broadening Participation in Computing*, Google,  
Mountainview, CA, January 30-February 1, 2018.  
NSF Workshop on *Cloud Security*, University of North Carolina, Chapel Hill, NC, July 13-15, 2016  
NSF Workshop on *Peer Led Team Learning (PLTL) in Computer Science*, Duke, Durham, NC, April 27-29, 2007.
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## PROFESSIONAL SERVICE ACTIVITIES

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### National Center for Women and Information Technology (NCWIT)

- Member, NCWIT Academic Alliance Emeritus Chairs Council (AECC), 2016-present  
Member, NCWIT Academic Alliance Advisory Board Member (AAAB), 2020-2022 (term expires 6/30/22)  
Co-Leader, *NCWIT Academic Alliance*, 2013-2016.  
AA Liaison for *Harrold Notkin Graduate Mentoring Award* (2014-2016)  
AA Liaison for *Community College Outreach Project* (2013-2016)  
AA Liaison for *Undergraduate Research Mentoring Award* (2014-2015)  
AA Liaison for *Recruiting and Engagement Project* (2013-2014)  
Member, *NCWIT Aspirations in Computing (NJ) Award Committee*, 2014-present  
Kean University, host, *NJ NCWIT Aspirations in Computing Award Ceremony* 2015, 2016, 2017.  
Co-Leader, *NCWIT AA Research Experiences for Undergraduates (REU) Toolkit Project*, 2010 -2013.  
[www.ncwit.org/reubox](http://www.ncwit.org/reubox) (2011), Undergraduate Research Mentoring Award (established 2012)  
Member, *NCWIT AA Executive Committee*, 2010-2016.  
University Representative to the *NCWIT Academic Alliance (AA)*, 2009 – present.  
Point Person, *NCWIT Pacesetters* (Cohort 3), 2016-2018.

Computer Science Advisory Board Member, NJ State Department of Education, 2018-present.

### Council on Undergraduate Research (CUR)

- Chair, CUR Fellows Committee, 2018-2020.  
Vice-Chair, CUR Fellows Committee, 2016-2018.  
CUR Fellows Committee Representative, *Mathematics and Computer Science Division* (2014-2020)  
Councilor (elected), *Mathematics and Computer Science Division*, 2014-2017, 2017-2020.

ABET *Computing Accreditation Commission (CAC)* Program Evaluator, 2014-present.

Computer Science and Information Technology programs

### Grant Proposal Review Activities:

- National Science Foundation*, 10 panels. 2009 (3), 2010, 2011(2), 2016, 2018, 2019, 2020  
*Alberta (Canada) New Faculty Ingenuity Fund*, 2009.

### Computing Research Association (CRA)

#### *Committee on Education (CRA-E)*

- Chair, Selection Committee, Undergraduate Research Mentoring Award, 2018-2019.  
Member, Selection Committee Undergraduate Research Mentoring Award, 2015-2019.  
Collaborated with colleagues on the development of this award to recognize faculty mentoring of undergraduates leading to student matriculation in Ph.D. programs (established 2016).

Conference Referee for *SIGCSE, ACM Symposium on Computer Science Education*, 2008-present.

Patricia A. Morreale – Curriculum Vitae

ITICSE, ACM Innovation and Technology in Computer Science Education, 2009-present

CCSC, ACM Consortium for Computing Sciences in Colleges, 2009-present.

SIGCHI, ACM Conference on Human Factors in Computer Systems, 2012-present

IEEE Integrated STEM Education Conference (ISEC) 2016

Referee for journals, including *IEEE Transactions on Education*.

#### Editorial Activities

Ed. Advisory Board, *Handbook of Research on Applied E-learning in Engineering and Architecture*

D. Fonseca and E. Rodondo, Editors, IGI Global, 2015.

Guest Editor, Special Issues on Active and Mobile Code Networks,

*IEEE Communications*, March 2000 and April 2000 (2 issues).

Associate Editor, *Networks*, Wiley and Sons, 1997-2000.

Editorial Board member, *Journal of Multimedia Tools and Applications*, Kluwer, 1998-2000

#### Conference Organization Activities

Vice-Chair, *IEEE INFOCOM*, 2002.

Co-Chair, Technical Program Committee

*IEEE Advanced Information Networking and Applications (AINA 2015)*

Track: Mobile Networks, Multimedia Systems and Applications.

Technical Program Committees:

*ACM SIG Computer Science Education (SIGCSE 2021)*

PC Computer Science Education Research

*IEEE International Symposium on Multimedia (ISM 2015)*

TPC Security area

*IEEE International Conference on Multimedia Big Data. (BigMM 2015, BigMM 2016)*

*International Conf. on Ambient Systems, Networks, and Technologies (ANT-2015) -Internet of Things*

*IEEE International Symposium on Multimedia (ISM 2014)*

Chair, TPC Multimedia Networking and QoS area

*International Conf. on Ambient Systems, Networks, and Technologies (ANT-2014) -Internet of Things*

*Web-Age Information Management (WAIM'14)*

*Human Aspects in Social Ubiquitous Networking Environments (HRSUNE'14)*

*IEEE International Systems Conference (SysCon 2013, 2014, 2015, 2016, 2017)*

*IEEE Symposium on Wireless Technology and Applications (ISWTA 2013)*

*IEEE Symposium on Computers and Informatics (ISCI 2013)*

*IEEE Symposium on Wireless Technology & Applications (ISWTA 2012)*

*IEEE Symposium on Industrial Electronics & Applications (ISIEA 2012)*

*IEEE ATM Workshop 1999 and 2000.*

*IASTED International Conference on Networks 1996.*

Organizing Committees:

Session Chair, Studies on Cybersecurity, Privacy and Trust, *HCI 2020*

Session Chair, Applications of Virtual, Augmented, and Mixed Reality (VAMR), *HCI 2019*

Session Chair, Mobile Design, User Experience, and Usability (DUXU), *HCI 2016*

Session Chair, Multimodal Interfaces/Multimedia and Social Computing, *ANT 2015*

Session Chair, Interaction on Planet Earth, *HCI 2014*

Session Chair, Student Learning Assessments, *ACM/SIGCSE CCSCNE 2012*

Session Chair, Intelligent and Context Aware Services, *IEEE AINA 2007*

Session Chair, Network Reliability/Network Survivability, *IEEE MILCOM 1999*

Session Organizer, Network Performance, *IEEE ATM Workshop 1999.*

#### Community College Advisory Board Memberships:

Information Technology Advisory Committee, Bergen Community College, Paramus, NJ

Engineering and Technology Advisory Committee, Brookdale Community College, Lincroft, NJ

Engineering Technology & Computer Science, Essex County College, Newark, NJ

Computer Science and Information Technology Board, Middlesex County College, Edison, NJ



## MEMBERSHIPS

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*Association of Computing Machinery (ACM)*, Senior Member (M 1983, SM 2006)  
Member, SIGCHI, Special Interest Group on Computer and Human Interaction  
Member, SIGCSE, Special Interest Group in Computer Science Education  
*Institute of Electrical and Electronics Engineers (IEEE)*, Senior Member (M 1983, SM 1997)  
Member, IEEE Communications Society  
Member, IEEE Computer Society  
Member, IEEE Education Society  
*American Association for the Advancement of Science (AAAS)* (Fellow 2018)  
*American Society for Engineering Education (ASEE)*  
*Council on Undergraduate Research (CUR)*  
*Phi Kappa Phi* Honor Society  
*Scrum Alliance*, Certified Scrum Master (CSM) and Product Owner (CSPO)  
*Sigma Xi*, the Scientific Research Society

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## PRESS CITATIONS

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### Online Media

*Union News Daily*, “Kean computer science program awarded \$1.68 million federal grant”,  
August 31, 2019, <https://unionnewsdaily.com/news/48262>  
*Central Jersey*, “Kean University awarded nearly \$1.7 million in research funding”, July 19, 2019,  
<https://www.mycentraljersey.com/story/news/education/in-our-schools/2019/07/19/kean-university-awarded-nearly-1-7-million-research-funding/1697028001/>  
*Jersey's Best*, “Girl code: Computer science programs inspire future female tech leaders”, June 5, 2019,  
<https://www.jerseysbest.com/girl-code-computer-science-programs-inspire-future-female-tech-leaders/>  
*NJ Biz*, “Kean University’s Morreale named AAAS fellow”, November 29, 2018,  
<http://www.njbiz.com/article/20181129/NJBIZ01/181129874/kean-universitys-morreale-named-aaas-fellow>  
*NJ Business*, “Receiving an education in cybersecurity”, October 4, 2018,  
<https://njbmagazine.com/monthly-articles/receiving-an-education-in-cybersecurity/>  
*Suburban News*, “Kean student group awarded national funding for women in computing”, February 13,  
2017, [http://www.nj.com/suburbannews/index.ssf/2017/02/kean\\_u\\_student\\_group\\_awarded\\_n.html](http://www.nj.com/suburbannews/index.ssf/2017/02/kean_u_student_group_awarded_n.html)  
*AAAS EurekAlert!*, “Computer Science Education awards ceremony”, August 26, 2016,  
[http://www.eurekalert.org/pub\\_releases/2016-08/njio-nci082616.php](http://www.eurekalert.org/pub_releases/2016-08/njio-nci082616.php)  
*NJ Business*, “Kean Computer Science Professor Receives National Mentoring Award”, May 11, 2016,  
<http://njbmagazine.com/njb-news-now/kean-computer-science-professor-receives-national-mentoring-award/>

- Suburban News*, “CS4HS at Kean University provides high school teachers with tools for success”, July 23, 2014, [http://www.nj.com/suburbannews/index.ssf/2014/07/cs4hs\\_at\\_kean\\_university\\_provi.html](http://www.nj.com/suburbannews/index.ssf/2014/07/cs4hs_at_kean_university_provi.html)
- New Jersey Business*, “Higher education research endeavors”, June 30, 2014, [http://njbmagazine.com/monthly\\_articles/higher-education-research-endeavors/](http://njbmagazine.com/monthly_articles/higher-education-research-endeavors/)
- Fierce Mobile Government*, “Mobile app could help crowd source solutions following disasters”, June 4, 2014, <http://www.fiercemobilegovernment.com/story/mobile-app-could-help-crowdsourcing-solutions-following-disasters/2014-06-04>
- The New Jersey Star Ledger*, “Kean University professor receives National Science Foundation Grant”, May 29, 2014, [http://www.nj.com/suburbannews/index.ssf/2014/05/kean\\_university\\_professor\\_rece.html](http://www.nj.com/suburbannews/index.ssf/2014/05/kean_university_professor_rece.html)
- The New Jersey Star Ledger*, “Point and Shoot: Kean University students create a photo app to report power outages”, September 29, 2013. [http://www.nj.com/business/index.ssf/2013/09/point\\_and\\_shoot\\_kean\\_universit.html](http://www.nj.com/business/index.ssf/2013/09/point_and_shoot_kean_universit.html)
- The Independent Press*, “Kean University Techies Develop Cemetery Smartphone App”, September 6, 2013. [http://www.nj.com/suburbannews/index.ssf/2013/09/kean\\_university\\_techies\\_develo.html](http://www.nj.com/suburbannews/index.ssf/2013/09/kean_university_techies_develo.html)
- The Independent Press*, “Kean University Students in Union Travel “Beyond the Grave””, August 19, 2013. [http://www.nj.com/suburbannews/index.ssf/2013/08/kean\\_computer\\_science\\_students.html](http://www.nj.com/suburbannews/index.ssf/2013/08/kean_computer_science_students.html)
- The Alternative Press*: “Kean Students Create a New Utility Outage Reporting App, Inspired by the Effects of Hurricane Sandy”, August 2, 2013. <http://thealternativepress.com/articles/kean-students-create-a-new-utility-outage-reporti>
- Millburn Patch*: “Kean Students Create a New Utility Outage Reporting App, Inspired by the Effects of Hurricane Sandy, August 2, 2013. [http://millburn.patch.com/groups/announcements/p/kean-students-create-a-new-utility-outage-reporting-app-inspired-by-the-effects-of-hurricane-sandy\\_62018cdc](http://millburn.patch.com/groups/announcements/p/kean-students-create-a-new-utility-outage-reporting-app-inspired-by-the-effects-of-hurricane-sandy_62018cdc)
- Westfield Patch*: “Kean Students Create a New Utility Outage Reporting App, Inspired by the Effects of Hurricane Sandy”, August 2, 2013. <http://westfield.patch.com/groups/announcements/p/kean-students-create-a-new-utility-outage-reporting-app-inspired-by-the-effects-of-hurricane-sandy>
- The Independent Press*, “3<sup>rd</sup> Annual CS4HS Week Set for Kean University July 2013”, June 6, 2013, [http://www.nj.com/independentpress/index.ssf/2013/06/third\\_annual\\_cs4hs\\_week\\_set\\_at.html](http://www.nj.com/independentpress/index.ssf/2013/06/third_annual_cs4hs_week_set_at.html)
- The Alternative Press.com*, “Third Annual CS4HS Week at Kean University”, June 3, 2013, <http://thealternativepress.com/articles/third-annual-cs4hs-week-at-kean-university>
- Science Daily*, “Greener Disaster Alerts: Low-Energy Wireless Sensor Networks Warn of Hurricanes, Earthquakes”, June 27, 2011, <http://www.sciencedaily.com/releases/2011/06/110627134527.htm>
- AAAS EurekAlert!*, “Greener Disaster Alerts: Low-Energy Wireless Sensor Networks”, June 27, 2011. [http://www.eurekalert.org/pub\\_releases/2011-06/ip-gda062711.php](http://www.eurekalert.org/pub_releases/2011-06/ip-gda062711.php)
- Science Daily*, “New Resource Developed to Encourage Undergraduate Research Experience”, May 23, 2011. <http://www.sciencedaily.com/releases/2011/05/110523145052.htm>
- physorg.com*, “New Resource Developed to Encourage Undergraduate Research Experience”, May 23, 2011. <http://www.physorg.com/news/2011-05-resource-undergraduate.html>
- E!ScienceNews*, “New Resource Developed to Encourage Undergraduate Research Experience”. May 23, 2011 [http://esciencenews.com/articles/2011/05/23/new\\_resource\\_developed\\_encourage\\_undergraduate\\_research\\_experiences](http://esciencenews.com/articles/2011/05/23/new_resource_developed_encourage_undergraduate_research_experiences)
- AAAS EurekAlert!*, “New Resource Developed to Encourage Undergraduate Research Experience”, May 23, 2011. [http://www.eurekalert.org/pub\\_releases/2011-05/osu-nrd052311.php](http://www.eurekalert.org/pub_releases/2011-05/osu-nrd052311.php)
- Science News Online*, “Agents of Cooperation”. by Ivars Peterson, January 2, 1999. [http://www.sciencenews.org/pages/sn\\_arc99/1\\_2\\_99/bob2ref.htm](http://www.sciencenews.org/pages/sn_arc99/1_2_99/bob2ref.htm)

### **Print Media**

- NJ Star-Ledger*, “A Hurricane Sandy-inspired app”, September 29, 2013, Business (Section 3), page 1.
- International Innovation*, “Fostering Success: Inspiring High Flyers”, pp. 40-41, October 2012.
- Kean Magazine*, “Applied Research”, p. 43, Spring 2012.
- Kean Magazine*, “Bookmarks: REU-In-A-Box”, p. 48, Spring 2012.
- Kean Magazine*, “Beyond Limitations”, p. 62, Fall 2010.
- Kean Magazine*, “Computer Science & Technology Undergrads Discover Success”, pp. 13, Fall 2010.
- Kean Magazine*, “Predicting When and Where” and “Scholarship Opportunities”, pp. 44-45, Fall 2009.

Patricia A. Morreale – Curriculum Vitae

*InfoWorld*, “A Day in the Life of the IT Job Search”, March 20, 2000.

*Interactive Week*, “Always On Means Establishing Personal Boundaries”, pp.48-52, January 10, 2000.

*Careers and the Engineer*, “Networking Your Future: Trends in Telecommunications”, by Patricia Morreale, pp. 64-65, Volume 11, Number 2, November 1999.

*Science News*, “Agents of Cooperation”. by Ivars Peterson, Vol. 155, No.1, pp. 12-13, January 2, 1999.

*Wall Street and Technology*, “On the Cutting Edge”, by Dean Tomasula, Volume 14, Number 12, December 1996. pp. 36-40.

*Forbes Magazine*, “Password Paralysis”, by Steve Kitchen, Volume 157, Number 9, May 6, 1996, p. 38.

### **Broadcast Media**

*RNN News*, NY/NJ/CT area, Network Commentary, February 14, 2000.

*ABC News Nightline*, Michel McQueen Y2K Panel Moderator, December 27, 1999.

*CBS News*, New York Area, Wireless Telephone Commentary, August 1999.

*RNN News*, NY/NJ/CT area, Technology Commentary, June 24, 1998.

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## **STUDENT SUPERVISION**

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### **Doctoral Dissertation Committee Memberships (5 Ph.D. Dissertations in total)**

B. Suran, *Exploring Web Search Strategies in Technical Environments*, Ph.D. dissertation, Stevens Institute of Technology, School of Technology Management, December 1999.

Y. Yang, *Adaptive Mobile Network Protocol for General Mobile Network*, Ph.D. dissertation, Stevens Institute of Technology, Department of Electrical and Computer Engineering, May 1999.

A. Mayer, *Predictive Retrieval and Caching of Interactive Multimedia Information*, Ph.D. dissertation, Stevens Institute of Technology, Department of Electrical and Computer Engineering, April 1997.

J. Duffany, *Virtual Path Optimization in ATM Networks Based on Statistical Multiplexing and Signaling Overhead*, Ph.D. dissertation, Stevens Institute of Technology, Department of Electrical and Computer Engineering, December 1996.

J. Bose, *Utility Maximization for Switched ATM Networks Using a Cascaded Overflow Source Traffic Model*, Ph.D. dissertation, Stevens Institute of Technology, Department of Electrical and Computer Engineering, May 1996.

### **M.S. Students Supervised (12 Masters Thesis or Research Projects in total)**

R. Kaur, *Design and Evaluation of a Smart Prior Authorization (SmartPA) Healthcare System*, Department of Computer Science, Kean University, 2016.

D. Patel, *User Input Mechanisms and Information Exchange*, Masters Research Project, Department of Computer Science, Kean University, 2015.

T. Dowluri and S. Mishra, *Information Visualization for Persuasive HCI Design*, Masters Research Project, Department of Computer Science, Kean University, 2014.

S. Askari, *Information Protection in Virtual Private Networks*, Masters Thesis, Telecommunications Management, Stevens Institute of Technology, May 2000.

K. Qian, *Multimedia Database Design for Education Assessment*, Masters Thesis, Stevens Institute of Technology, Department of Computer Science, December 1998.

*Patricia A. Morreale – Curriculum Vitae*

A. Mangla, *Active Network Management*. Masters Thesis, Stevens Institute of Technology, Department of Computer Science, December 1998.

M. Nemes, *Enhancing the Operation of ATM Network Elements for Multimedia Service Provisioning*, Masters Thesis, Stevens Institute of Technology, Department of Electrical Engineering and Computer Science, August 1998.

A. Kamath, *Implementation of Mobile Agents for a Distributed Environment*, Masters Thesis, Stevens Institute of Technology, Department of Computer Science, May 1997.

R. Deshpande, *Distributed Search Engine Architecture*, Masters Thesis, Stevens Institute of Technology, Department of Computer Science, May 1997.

N. Qureishi, *Full-Screen Full-Motion Video from CD-ROM*, Masters Thesis, Northeastern Illinois University, Department of Computer Science, December 1994.

G. Anderson, *Security Concerns in Maintaining the Confidentiality of Medical Information on a Remote Access LAN*, Masters Thesis, Northeastern Illinois University, Department of Computer Science, December 1994.

F. Rezapour, *Contrast and Comparison of Circuit Switching, Packet Switching, and Asynchronous Transfer Mode*, Masters Thesis, Northeastern Illinois University, Department of Computer Science, May 1994.

**Undergraduate Research Projects Supervised (106 unique students in total; 59 projects)**

- T. Barone, *Comparative Web-based Interface Analysis*, School of Computer Science and Technology, 2020.
- B. Mahipat, *Design and Programming of Small Games*, School of Computer Science and Technology, 2020.
- K. Capellan, M. Condado, I. Morais, *Understanding Cyber Security Concepts Using a Brain Computer Interface (BCI)*, School of Computer Science, Kean, 2019. **I. Morais received the 2019 Undergraduate Research Award, Kean University (04/19).**
- K. Capellan, *Static and Dynamic Analysis for Cybersecurity*, School of Computer Science, Kean, 2018.
- M. Condado, I. Morais, *Intelligent Wayfinding*, School of Computer Science, Kean University, 2018.
- C. Copeland, *Interface Design for Symptom Checker*, School of Computer Science, Kean University, 2018.
- A. Sosa, *Usable Cybersecurity Interface Design*, School of Computer Science, Kean University, 2017.
- S. Philippe, *Evaluation of Mobile Biometric Authentication*, School of Computer Science, Kean University, 2017.
- S. Gnapp, *Benchmark Testing and Assessment*, School of Computer Science, Kean University, 2017.
- M. Brattstrom, *Secure Network Monitoring*, Department of Computer Science, Kean University, 2016.
- K. Cabrara, *Longitudinal Study of the Impact of CS4HS PD on High School Computer Science Teachers*, Department of Computer Science, Kean University, 2016.
- B. Purbrick, *Internet of Things (IoT): Security and Bandwidth Considerations and Graph Path Finding*. Department of Computer Science, Kean, 2016.
- N. Tyler, *Increasing the Knowledge of Accessible Buildings*, Department of Computer Science, Kean, 2015.
- M. Brattstrom, G. De Luca, J. MacDuffie, K. Perera, *Secure Mobile App Design: Vulnerability Assessment and Analysis*, Department of Computer Science, Kean University, 2015.
- J. Galindo, *Digital Library Design*, Department of Computer Science, Kean University, 2014. **This undergraduate research project received the Phi Kappa Phi Honor Society 1<sup>st</sup> place award for Undergraduate Research Project, Kean University Chapter (12/15).**
- A.Toth. *Software Defined Network (SDN) Analysis*, Department of Computer Science, Kean University, 2014.
- J. McAllister, *Information Visualization and Sustainability*, Department of Computer Science, Kean University, 2014.
- L. Jimenez, *Designing a 3D Accessible Map for Usability and Navigation*, Department of Computer Science, Kean University, 2014. **L. Jimenez received the 2014 Undergraduate Research Award, Kean University (03/14).**
- K. Miller, *Finding the Needle in the Image Stack: A Comparison of Tools and Technologies for Big Data Image Analysis*, Department of Computer Science, Kean University, 2013. **This undergraduate research project received the Phi Kappa Phi Honor Society 1<sup>st</sup> Place award for Undergraduate Research Papers, Kean University Chapter (07/14).**
- A. Goncalves, *Mobile Application Research for Public Safety*, Department of Computer Science, Kean University, 2013.

- Y. Jimenez, *SmartApps: Extension of a Predictive Model for SmartPhone Selection*, Department of Computer Science, Kean University, 2013-2014.
- S. Vertil, *Contextual Social Media: YouHeardItHere*, Department of Computer Science, Kean University, 2013.
- A. Goncalves and C. Silva, *Community Dynamics for Mobile and Social Network Applications*, Department of Computer Science, Kean University, 2013.
- J. Bonafide, *Real-time Crowdsourcing for Public Safety*, Department of Computer Science, Kean University, 2013.
- P. Patel, *Utility of Python Programming Language for Core Mathematics Instruction*, Department of Computer Science, Kean University, 2013.
- D. Church, C. Da Silva, D. Das, A. Goncalves, S. Holtz, H. Liao, J. Lisojo, N. Lozano, J. Shah and J. Bonafide, *A Comparative Study of Mobile Application Development: Apple vs. Android*, Department of Computer Science, Kean University, 2012-2013. **This undergraduate research project received the Phi Kappa Phi Honor Society 3<sup>rd</sup> Place award for Undergraduate/Graduate Research Projects, Kean University Chapter (05/13). A poster presentation of this work was accepted for presentation at Grace Hopper 2013.**
- H. Patel, *Comparative Study of the Utility of e-Books vs. Traditional Books*, Department of Computer Science, Kean University, 2012. **This undergraduate research project received the Phi Kappa Phi Honor Society 1<sup>st</sup> Place award for Undergraduate/Graduate Research Projects, Kean University Chapter (05/13).**
- Y. Jimenez, *Design and Implementation of a Predictive Model for Smartphone Selection*, Department of Computer Science, Kean University, 2012. **This undergraduate research project received the Phi Kappa Phi Honor Society 2<sup>nd</sup> Place award for Undergraduate/Graduate Student Paper, Kean University Chapter (05/13). A poster presentation of this work was accepted for presentation at Grace Hopper 2013.**
- S. Holtz and A. de Oliveira Gonçalves, *Data Visualization for Human Computer Interaction*, Department of Computer Science, Kean University, 2012. **This undergraduate research project received the Phi Kappa Phi Honor Society 3<sup>rd</sup> Place award for Undergraduate/Graduate Student Paper, Kean University Chapter (05/13).**
- C. Goski and R. Vasquez, *Teaching High-School Teachers Computer Science*, Kean University, 2012.
- R. Arlequin, *Computational Collective Intelligence in Multimedia Web Applications*, Department of Computer Science, Kean University, 2012. **Rosangela received a 2012 Google Hispanic College Fund Scholarship (\$10,000).**
- L. Aguilera, M. Andujar, L. Jimenez, Y. Jimenez, J. Shah, and F. Zabe, *A Comparison of Alice and Android App Inventor Programming Environments for Hispanic Students*, Department of Computer Science, Kean University, 2011-2012. **This undergraduate research team received the Phi Kappa Phi Honor Society 1<sup>st</sup> Place award for Undergraduate Projects in Science & Technology, Kean University Chapter (05/12). A poster presentation of this work was accepted for presentation at Grace Hopper 2012.**
- J. Callegari, J. Howard, G. Valle, *Pattern Identification and Parallelization in Stream Data (PIPS)*, Department of Computer Science, Kean University, 2011.
- R. Arlequin, *Analysis of real-time performance an Android applications*, Department of Computer Science, Kean University, 2011.
- F. Zabe, *Performance assessment of Real-time Android Applications*, Department of Computer Science, Kean University 2011.
- L. Jimenez, *Perceptions of Computational Thinking by High School Teachers*, Department of Computer Science,

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Kean University, 2011.

C. Goski, *Assessment of the Impact of Undergraduate Research at Kean University on Graduation Rates and Student-Faculty Retention*, Kean University, 2011.

S. Holtz and F. Osomon, *Teaching Computational Thinking*, Department of Computer Science, Kean University, 2011.

J. Callegari, F. Kendall, G. Valle, *Identifying Dataset Patterns for Knowledge Discovery*, Department of Computer Science, Kean University, 2010. **J. Callegari received the Phi Kappa Phi Honor Society 1<sup>st</sup> Place award for Undergraduate Projects in Science & Technology, Kean University Chapter (04/11) for this project.**

J. Howard and O. Padron, *Knowledge Discovery from Information Extraction*, Department of Computer Science, Kean University, 2010.

L. Aguilera, *Mobility Prediction for Safety and Security Assurance*, Department of Computer Science, Kean University, 2010.

Ashwini Mahajan, *Real-time Data Visualization in a Geo-Temporal Context*, Department of Computer Science, 2009.

F. Kendall, B. Sinnicke, and R. Suleski, *Knowledge Discovery from Sensor Data for Environmental Information*, Department of Computer Science, Kean University, 2009. **F. Kendall received the Phi Kappa Phi Honor Society 1<sup>st</sup> Place award for Undergraduate Projects in Science & Technology, Kean University Chapter (04/10) for his effort on this project and 2010 Undergraduate Research Award, Kean University (03/10).**

M. Andujar, *Interface Design for Scientists: A Case Study using Carbon Sequestration Models*, Department of Computer Science, Kean University, 2009.

J. Callegari, *Assessment of Tag Clouds for Faster Information Retrieval*, Department of Computer Science, Kean University, 2009. **J. Callegari received the Phi Kappa Phi Honor Society 2<sup>nd</sup> Place award for Undergraduate Projects in Science & Technology, Kean University Chapter (04/10).**

G. Johnson, *MINA: Malware Identification by Network Anomalies*, Computer Science, Kean University, 2009.

R. Suleski, *Predictive Wireless Integrated Network Sensors (pWiNS)*, Computer Science, Kean University, 2009.

M. Andujar, *Alice vs. Java: Survey and Assessment of Student Experiences*, Computer Science, Kean, 2008.

J. Czarnik, N. Doell, J. Espin, and R. Suleski, *Implementation and Assessment of a Wireless Network for Environmental Sensing*, Department of Computer Science, Kean University, 2008. **R. Suleski received the Best Undergraduate Research award at IEEE Supercomputing '08 for his effort on this project (11/08) and 2009 Undergraduate Researcher Award, Kean University (03/09).**

B. Kamatheh, *Multiprotocol Label Switching/Private Network Transport (MPLS/PNT)*, Department of Computer Science, Kean University, 2008.

M. Andujar and G. Johnson, *3-D Programming with Alice*, Department of Computer Science, Kean University, 2008.

V. Amin, A. Parikh, C. Parikh, P. Rajcok, B. Suwidji, and W. Yau, *Quack: Instant Messaging Service*, Department of Computer Science, Stevens Institute of Technology May 2000.

D. Verma, E. Malyarov, T. Pham, and K. Lee, *Wireless Car Media Player*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, sponsored by AT&T Research, May 2000. **Winner, Best Electrical**  
September 26, 2020 23

**and Computer Engineering Senior Design Project 2000, Stevens Institute of Technology.**

J. Craft, J. Joraski, M. Brown, and D. Chan, *Wireless Virtual Private Network Performance*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, sponsored by Compaq Corp., May 2000.

M. Acquavella, M. Jara, J. Kesner, and A. Lizarea, *Integrated Marine Computer System Controlled using Wireless Communication Medium*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, sponsored by AT&T Research, May 1999

A. Bil, P. Canales, J. Chuah, A. Leung, T. Muda and K. West, *Remote Video Transmittal Control*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, sponsored by AT&T Research, May 1999.

A. Gupta, R. Gambhir, K. Awwal, Q. Wu, and L. Yee, *Software Implementation of Remote Motion Controller*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, sponsored by AT&T Research, May 1999.

C. Iaccario, D. Perozzi, M. Sigel, A. Staikos, and R. Taylor, *Honeyweb*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, sponsored by Honeywell, May 1999. **Winner, Best Electrical and Computer Engineering Senior Design Project, 1999. Resulted in a published paper at the IEEE 20<sup>th</sup> Real-Time Systems Symposium, December 1999.**

M. Juharian, K. Malick, and E. Pinto, *Transmission and Measurement of Quality of Service Information on a Wireless LAN*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, sponsored by Mitre, May 1999. **Resulted in a published paper at IEEE MILCOM '99, November 1999.**

K. Bui, A. Canzius, C. Ly, V. Neyra, and M. Phan, *Voice over IP*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, sponsored by Mitre, May 1999.

A. Chandra, A. Sharma, and B. Beyli, *Design of Mobile Agents for Handling Diagnostic Events*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, May 1998.

M. Posluszna and R. DeSousa, *Efficiency of Distributed Multimedia Networks*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, May 1998.

T. Zottoli, K. Patla, P. Heaver, and D. Ferrogut, *Hardware-based Realtime FEC System: A Software Simulation*, Department of Electrical and Computer Engineering, Stevens Institute of Technology, May 1998.

C. Micheli, J. Richey, and C. Sharan, *Network Resource Management via an Intelligent Agent Infrastructure*. Department of Electrical and Computer Engineering, Stevens Institute of Technology May 1997.



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**UNDERGRADUATE AND GRADUATE COURSES TAUGHT (graduate courses noted)**

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**At Kean University:**

- Fall 2006: CPS 1031 Introduction to Computers (multiple sections)
- Fall 2006: CPS 1231 Fundamentals of Computer Science (multiple sections)
- Spring 2007: CPS 1031 Introduction to Computers
- Spring 2007: CPS 1231 Fundamentals of Computer Science
- Spring 2007: CPS 4222 Principles of Networking
- Fall 2007: CPS 1231 Fundamentals of Computer Science (multiple sections)
- Fall 2007: CPS 2232 Data Structures and Algorithms
- Spring 2008: CPS 1231 Fundamentals of Computer Science (multiple sections)
- Spring 2008: CPS 4222 Principles of Networking
- Fall 2008: Tech 1010 Information Technology Fundamentals
- Fall 2008: CPS 1231 Fundamentals of Computer Science
- Fall 2008: CPS 4981 Special Topics in Computer Science
- Spring 2009: CPS 1231 Fundamentals of Computer Science (multiple sections)
- Spring 2009: CPS 4222 Principles of Networking
- Fall 2009: Tech 1010 Information Technology Fundamentals
- Fall 2009: CPS 1231 Fundamentals of Computer Science
- Fall 2009: CPS 4982 Special Topics in Computer Science
- Spring 2010: Tech 1010 Information Technology Fundamentals
- Spring 2010: CPS 1231 Fundamentals of Computer Science
- Spring 2010: CPS 4222 Principles of Networking
- Spring 2010: CPS 4981 Special Topics in Computer Science
- Fall 2010: Tech 1010 Information Technology Fundamentals
- Fall 2010: CPS 1231 Fundamentals of Computer Science
- Fall 2010: CPS 4980 Special Topics in Computer Science
- Spring 2011: CPS 1231 Fundamentals of Computer Science (multiple sections)
- Spring 2011: CPS 4222 Principles of Networking
- Summer 2011: CPS 5000 Multimedia Systems (graduate)
- Fall 2011: CPS 2231 Computer Organization and Programming
- Fall 2011: CPS 4981 Special Topics in Computer Science
- Fall 2011: CPS 5950 Software Engineering (graduate)
- Spring 2012: CPS 4222 Principles of Networking
- Spring 2012: CPS 4961 Senior Research
- Spring 2012: CPS 4982 Special Topics in Computer Science
- Spring 2012: CPS 5951 Human Computer Interaction (HCI) (graduate)
- Fall 2012: CPS 4981: Special Topics in Computer Science
- Fall 2012: CPS 5990: Special Topics: Mobile Applications (graduate)
- Fall 2012: CPS 5950 Software Engineering (graduate)
- Spring 2013: CPS 4222 Principles of Networking
- Spring 2013: CPS 4961 Senior Research
- Spring 2013: CPS 4982 Special Topics in Computer Science
- Spring 2013: CPS 5951 Human Computer Interaction (HCI) (graduate)
- Spring 2013: CPS 5931 Network Systems Applications (graduate)
- Summer 2013: CPS 5990: Special Topics: Computer Science Education (graduate)
- Fall 2013: CPS 3310 Programming Languages
- Fall 2013: CPS 4301 Software Engineering
- Fall 2013: CPS 5950 Software Engineering (graduate)

- Spring 2014: CPS 4222 Principles of Networking
- Spring 2014: CPS 4961 Senior Research
- Spring 2014: CPS 4982 Special Topics in Computer Science
- Spring 2014: CPS 5951 Human Computer Interaction (HCI) (graduate)
- Spring 2014: CPS 5931 Network Systems Applications (graduate)
- Fall 2014: CPS 3310 Programming Languages
- Fall 2014: CPS 4301 Software Engineering
- Fall 2014: CPS 5950 Software Engineering (graduate)
- Spring 2015: CPS 4222 Principles of Networking
- Spring 2015: CPS 4961 Senior Research
- Spring 2015: CPS 4601 Human Computer Interaction
- Spring 2015: CPS 5951 Human Computer Interaction (HCI) (graduate)
- Fall 2015: CPS 3310 Programming Languages
- Fall 2015: CPS 4301 Software Engineering
- Fall 2015: CPS 5950 Software Engineering (graduate)
- Spring 2016: CPS 4222 Principles of Networking
- Spring 2016: CPS 4961 Senior Research
- Spring 2016: CPS 4601 Human Computer Interaction
- Spring 2016: CPS 5951 Human Computer Interaction (HCI) (graduate)
- Fall 2016: CPS 3310 Programming Languages
- Fall 2016: CPS 4301 Software Engineering
- Fall 2016: CPS 5950 Software Engineering (graduate)
- Spring 2017: CPS 4222 Principles of Networking
- Spring 2017: CPS 4961 Senior Research
- Spring 2017: CPS 4601 Human Computer Interaction
- Spring 2017: CPS 5951 Human Computer Interaction (HCI) (graduate)
- Fall 2017: CPS 3310 Programming Languages
- Fall 2017: CPS 4301 Software Engineering
- Spring 2018: CPS 4601 Human Computer Interaction
- Spring 2018: CPS 5951 Human Computer Interaction (HCI) (graduate)
- Fall 2018: CPS 3310 Programming Languages
- Fall 2018: CPS 4301 Software Engineering
- Spring 2019: CPS 4601 Human Computer Interaction
- Spring 2019: CPS 5951 Human Computer Interaction (HCI) (graduate)
- Fall 2019: CPS 3310 Programming Languages
- Spring 2020: CPS 4601 Human Computer Interaction
- Spring 2020: CPS 5951 Human Computer Interaction (HCI) (graduate)
- Fall 2020: CPS 4301 Software Engineering

**At Stevens Institute of Technology**

- Fall 1996: CS 765 Multimedia Systems (graduate)
- Fall 1997: CS 385 Data Structures and Algorithms
- Spring 1998: CS 385 Data Structures and Algorithms
- Summer 1998: CS 669 Network Management (graduate)
- Fall 1998: CS 493 Data and Computer Communications
- Spring 1999: EE 465 Introduction to Communications Systems
- Spring 1999: CS 487 Digital System Design
- Fall 1999: CS 493 Data and Computer Communications
- Fall 1999: CS 649 Distributed Systems (graduate)
- Spring 2000: CS 493 Data and Computer Communications
- Spring 2000: CS 487 Digital System Design
- Spring 2000: CS 561 Database Management Systems I (graduate)

**At Northeastern Illinois University**

- Fall 1991: CS 302 Systems Programming
- Fall 1991: CS 304 Data Structures and Algorithms
- Fall 1991: CS 315 Database Systems
- Fall 1991: CS 401 Software Engineering (graduate)
- Spring 1992: CS 304 Data Structures and Algorithms (multiple sections)
- Spring 1992: CS 315 Database Systems (multiple sections)
- Fall 1992: CS 200 Programming I
- Fall 1992: CS 205 Assembly Programming
- Fall 1992: CS 207 Programming II
- Fall 1992: CS 311 Computer Architecture
- Spring 1993: CS 304 Data Structures and Algorithms
- Spring 1993: CS 315 Database Systems
- Spring 1993: CS 408 Advanced Operating Systems (graduate)
- Fall 1993: CS 200 Programming I (multiple sections)
- Fall 1993: CS 330 Telecommunications
- Fall 1993: CS 402 Advanced Systems Programming (graduate)
- Spring 1994: CS 302 Systems Programming
- Spring 1994: CS 315 Database Systems
- Spring 1994: CS 330 Telecommunications
- Spring 1994: CS 402 Advanced Systems Programming (graduate)
- Fall 1994: CS 302 Systems Programming
- Fall 1994: CS 330 Telecommunications
- Fall 1994: CS 402 Advanced Systems Programming (graduate)
- Fall 1994: CS 409 Compiler Design (graduate)

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## UNIVERSITY SERVICE

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### **Kean University**

- 2020-present Member, Standard V Working Group, Educational Effectiveness Assessment, MSCHE Self-Study  
2016-present Member, Intellectual Property Committee  
2011-2017 Member, University Planning Council (UPC)  
2012-2014, Member, Strategic Plan Subcommittee  
2014-2017, Member, University Scorecard Subcommittee  
2016 Member, Transfer Admissions Enrollment Process Committee  
2015 Member, College of Business, Cybersecurity Center Managing Director Search Committee.  
2013 Chair, College of Natural, Applied, and Health Sciences (CNAHS) Dean Search Committee  
2013 Member, NJSTM Dean Search Committee  
2010-present Member, Kean University Chapter of Phi Kappa Phi  
2011 Secretary, Kean University Chapter of Phi Kappa Phi (appointed 03/11-11/11)  
2011 Reviewer, Kean University Faculty and Professional Staff Nominations (11/11)  
2012 Judge, Student Research Contest, Scholarly work (04/12)  
2013, Chair, Nominating Committee, Kean University Chapter of Phi Kappa Phi  
2015 Judge, Student Research Contest, Scholarly work (07/15)  
2011-2012 Member, Steering Committee, Faculty Development Network (FDN), Kean University  
2011 – Identified and invited external speakers to Kean University.  
2012- Spoke at New Faculty Orientation (08/12)  
2010-2012 Member, Untenured Faculty Research Initiative (UFRI) Committee  
2007-2011 Member, Steering Committee, Tenure Track Faculty Network (TTFN), Kean University  
2008-2010 Member, Distance Learning Committee, Kean University  
2008-2009 Member, Kean University Foundation Grant Award Committee

### **Hennings College of Science, Mathematics and Technology, Kean University**

- 2018-present Research Mentor, Ronald E. McNair Scholars Program, Kean University  
2009-2019 Research Mentor, Louis Stokes Alliance for Minority Participation (LSAMP) Program  
2007-2011 Member, Curriculum Committee, CNAHS, Kean University  
2008-2013 Research Mentor, Ronald E. McNair Scholars Program, Kean University  
2006-2008 Member, Epsilon Corps Working Group, Kean University  
Inaugurated Epsilon Awards for outstanding CNAHS undergraduates in 2007.  
2006-2008 Member, CNAHS Steering Committee, Institute for Urban EcoSystems (IUES), Kean University  
Participated in cross-disciplinary research activity  
2008-2009 Member, CNAHS Sustainability Steering Committee, Kean University  
Contributed to the New Degree Program development for the B.S. in Sustainability Science  
2008 Member, Ronald E. McNair Program Director Search Committee (07/08), Kean University  
2008 External Member, CNAHS Grievance Committee (Occupational Therapy, 07/08), Kean University

### **School of Computer Science and Technology, Kean University**

- 2018-2019 Faculty Advisor, Women in Cybersecurity (WiCyS) Student Chapter, Kean University  
2011-present Member and Chair, Faculty Search committee, School of Computer Science, Kean University  
2011-present Chair, Assessment Committee  
ABET Self-study prepared, submitted, B.S. Computer Science accredited.  
University Program Review completed for 3 degree programs (B.S. CS, IT, MS CIS)  
Three degree programs assessed (BS CS, IT and MS CIS) 2013, 2016.  
Developed a department-wide methodology for course and program review.  
2011- 2016 Chair, Appointment, Retention, Tenure, and Promotion (ARTP) Committee  
2006-2016 Faculty Advisor, ACM Student Chapter, Kean University  
Arranged for national chapter reinstatement and budget from Kean Student Activities Board.  
Worked with students and faculty on speakers and events, including HackKean (2015, 2016).

**2010, Kean University “Most Competitive” Award for Programs and Membership**

- 2007-2011 Chair, Research Committee, Department of Computer Science, Kean University
- 2008-2011 Information Technology Coordinator, Department of Computer Science, Kean University
- 2007-2008 Member, Faculty Search Committee, Department of Computer Science, Kean University

**At Stevens Institute of Technology**

- 1997-2000 Member, Distance Learning Committee, Stevens Institute of Technology
- 1998-2000 Member, Research Planning Board, Stevens Institute of Technology
- 1998-2000 Member, Corporate Outreach Team, Stevens Institute of Technology
- 1999-2000 Chair, Information Technology Committee, School of Applied Sciences and Liberal Arts (SASLA)
- 1999-2000 Member, Board of Trustees Information Technology Committee, Stevens Institute of Technology
- 1999-2000 Member, IT Strategic Planning Committee, Stevens Institute of Technology