

Peter A Cooper
Professor and Department Chair
Direct, Center of Excellence in Digital Forensics
Computer Science
Arts & Sciences

Degrees Earned

Teaching Certificate (1975, Mathematics). University of London Goldsmiths' College, England.
B.A. (1984). Open University, England (Sociology/ Education)
Dip. Ed. (1987, Mathematics, Statistics and Computing for Education). University of London, Institute of Education
M.A. (1990), Ph.D.(1993). University of Missouri-Columbia. Higher & Adult Education

Professional Licensure and Certifications

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

“The Philosophy of Discipline: Two Analogies In Pursuit Of the Nature of Academics” 16th Annual Conference of the Association of Universities for Democracy (AUDEM) Yalta, Ukraine. October 2005. Scheduled for publication in *Perspectives in Higher Education Reform 15-16*, Nov 2008.
Siegel, M.H, So, W. & Cooper, P.A. (2005). Subtractive Black Holes and Black Loops. *Texas College Mathematics Journal*. 2(1). 1-9.
Bennett and Cooper (2003). The Computer Literacy Course: Putting It All Together. *Information Systems Education Journal*, 2 (6). <http://isedj.org/2/6/>. ISSN: 1545-679X
Gonzalez, Baral, & Cooper. (2002). Formal specification of multimedia displays using action based temporal logic. In Zhou, X. & Pu, P (Ed.) *Visual and Multimedia Information Management*. 141-155.
Cooper P.A. (1993) Paradigm Shifts in Designed Instruction: From Behaviorism to Cognitivism to Constructivism. *Educational Technology* 23(5) pp12-18
Cooper, P.A. (1991) Computing Information Services: Directors' Perception of Their Role and Function. *Educom Review* 26(1), 40-45.
Cooper P.A. & Hartness, K.(2000) Structured Communication in Java. *Journal of Computing in Small Colleges* 15(3) 182-183.
Carroll, J. & Cooper, P.A. (1998) The Politics of Curriculum Reform. *Journal of Computing in Small Colleges* 13(4). 119-124

Books

Chapters

Cooper, P.A. (1998). Revising the Computer Science Curriculum: Rationale, Processes, Results and Implications. In Dowdy, D, Jones, B. & Pannell, K., *TR5: An introduction to research writing*. Simon & Schuster, Needham Heights, MA. 505 – 512.
Cooper P.A. (1999) Paradigm Shifts in Designed Instruction. Reprinted in course materials for EDCI 520 Assessment in Bilingual/ESL Settings at George Mason University. Dr. Valdez-Pierce Instructor. Spring 199 and Fall 1999.

Proceedings

- Shannon, L. Y., Polnick, B.E., & Cooper P.A. (2006). Millennial Generation Leads The Changes In Higher Education. Proceedings of the 2006 Asia-Pacific Research Association International Conference.
- Cooper, P.A. (2005) Speciation in the Computing Sciences: Digital Forensics as an Emerging Academic Discipline. Proceedings of IPSI 2005 ISBN 86-7466-117-3.
- Cooper, P.A. (2001). Design of Content Independent Instructional Systems. Proceedings of the 5th International Conference on Technology in Mathematics Teaching, Klagenfurt, Austria (August 2001)
- Cooper, P.A. & Hirtle J.S.(2001) Computer-Mediated Communication, The Infosphere and the Virtual Learning Community. Proceedings of the 2001 SITE International Conference.
- Cooper P.A. (2002). Road and Bridge Maintenance: Embedding GeoMedia in Visual Basic Applications. Proceedings of 2002 GeoSpatial World Conference, Atlanta Georgia, June 11th 2002
- Cooper, P.A. (2001). Design of Content Independent Instructional Systems. Proceedings of the 5th International Conference on Technology in Mathematics Teaching, Klagenfurt, Austria (August 2001)
- Cooper, P.A. & Hirtle J.S.(2001) Computer-Mediated Communication, The Infosphere and the Virtual Learning Community Proceedings of the 2001 SITE International Conference.
- Cooper, P.A. & Hirtle J.S.(2001) Growing the Learning Landscape: Experience in Environment and Process Proceedings of the 2001 SITE International Conference.
- Klespis, M.L. & Cooper, P.A. (1999). An Integrated Introductory Mathematics and Computer Science Course. American Mathematical Society Abstracts. 20(1), 167.
- Klespis, M.L., & Cooper, P.A. (1999) An Integrated Introductory Mathematics and Computer Science Course. Proceedings of the 4th International Conference on Technology in Mathematics Teaching, Plymouth, U.K.

Artistic Performances

Artistic Exhibitions

Research Monographs and Technical Reports

- Cooper, P.A. et al (2004) *Prince Mohammad Bin Fahd Undergraduate Information Technology and Computer Science Programs*. Technical report for the Texas International Education Consortium, Austin, Texas.
- Cooper, P.A., Gonzalez, G.H. & McGuire, T. "Development of a Hydrology Data Repository and Models Tutorial," Final Report, submitted to the U.S. Army Corps of Engineers, Engineering Research and Development Center, Champaign, Illinois. December 12th 2002.

Funded External Grants

- Law Enforcement Training in Digital Forensics (2006). Bureau of Justice Assistance . PI Cooper, Co-PI Murff. (\$388,000). Awarded October 2006.
- Law Enforcement Training in Digital Forensics (2005). Bureau of Justice Assistance . PI Cooper, Co-PI Murff. (\$197,329). Awarded January 2006.
- Sam Houston State University Center of Excellence in Digital Forensics. (2004). US Department of Justice. PI. Cooper. (\$989,477) Awarded November 2004
- Imaging Application. Software Development for Walker County. Project initiated September 2002. (\$3,500)
- Development of Road and Equipment Maintenance and Repair system for Walker County Commissioner's Office (2000-2001) P.I. Cooper. Co-PI Richard Rush (\$7000)

A Development of a Hydrology Data Repository and Models Tutorial (2001-2002). Submitted to CERL. P.I. Cooper. Co-investigator: Graciela Gonzalez, Tim McGuire. (\$250,000). Awarded.

A Development of a Hydrology Data Repository and Models Tutorial (2000-2001). Submitted to CERL. P.I. Cooper. Co-investigator: Gary Smith. (\$318,940). Awarded

Development of database system for management of Septic System licensing, Walker County (2000-2001). Co-PI Richard Rush. \$8000 awarded.

Image Analysis In Support Of Threatened And Endangered Species (ETS) Habitat Monitoring.(1998). Submitted to SERDP. Co-investigators: Jamie Hebert (PI), Wasin So. (\$419,634). Awarded

Fort Hood Watershed Study and WIARS, WMS and IDLAMS Data and Technology (1998) P.I. Gordon Plishker, Co-investigators: Jaimie Hebert, G. Smith, Cecil Hallum. (\$223,543). Awarded

A Computer Lab for an Integrated Introductory Mathematics and Computer Science Course. (1998). Submitted to the National Science Foundation. Co-investigators: Dave Ruch (PI), Mark Klespis. (\$47,977). Awarded

Peer-Review Presentations/Posters

“Why Literacy is Not Enough: Knowledge, Being and Reframing. IPSI-Amalfi. March 2007

“Computer Literacy and the University”. 17th Annual Conference of the Association of Universities for Democracy (AUDEM) Katowice, Poland. November 2006.

“The Ten (Information Security) Commandments”. 17th Annual Conference of the Association of Universities for Democracy (AUDEM) Katowice, Poland. November 2006.

“The Philosophy of Discipline: Two Analogies In Pursuit Of the Nature of Academics” 16th Annual Conference of the Association of Universities for Democracy (AUDEM) Yalta, Ukraine. October 2005.

“Matrioshka and the Egg: Perspectives in Information Security” 16th Annual Conference of the Association of Universities for Democracy (AUDEM) Yalta, Ukraine. October 2005.

“Speciation in the Computing Sciences: Digital Forensics as an Emerging Academic Discipline”. IPSI Pescara, July 2005. Also presented at the 2005 Information Security Curriculum Development Conference, Kennesaw State University, Kennesaw, Georgia. Sept 2005.

“The Role of Artifact Development in Promotion and Tenure Decision Making for Computer Science and MIS Faculty. 15th Annual conference of the Association of Universities for Democracy (AUDEM) Pecs, Hungary. November 2004.

“Innovation and Accreditation: Opposing Forces in Computer Science” 14th Annual conference of the Association of Universities for Democracy (AUDEM), Vilnius,Lithuania, October 26-29th, 2003.

“The State of Computer Science Education in the United States”. 13th Annual conference of the Association of Universities for Democracy (AUDEM), Timisoara, Romania, November 6-12th, 2002.

“Modeling Multimedia Displays Using Action Based Temporal Logic.” Sixth IFIP Working Conference on Visual Database Systems, Brisbane, Australia. May 29th –June 3rd 2002.

Computer-Mediated Communication, The Infosphere and the Virtual Learning Community Proceedings of the 2001 SITE International Conference.

Building Client-Server Systems. Exercises in Network Communication. Eleventh South Central Small Colleges Computing Conference, Corpus Christi, TX. April 2000

Structured Communication in Java. (with Ken Hartness). Eleventh South Central Small Colleges Computing Conference, Corpus Christi, TX. April 2000

An Integrated Introductory Mathematics and Computer Science Course. Joint Mathematical Meetings, San Antonio, TX, January 15th 1999.

‘Operating Systems’ 3rd Annual Sam Houston Conference for Secondary School Students and Teachers. Huntsville, TX , Jan 1999.

‘Designing Internet Instructional Environments’ ACM/SIGCSE/SIGCUE 6th Annual Conference on the Teaching of Computing/3rd Annual Conference on Integrating Technology into Computer Science Education. Dublin, Ireland. August 1998.

‘Truth or Trend? Test!’ with Goad R.E. Conference for the Advancement of Mathematics Teaching. San Antonio, TX. July 1998.

‘Redefining Technology Literacy – Again!’ Society for Information Technology & Teacher Education 9th International Conference. Washington D.C. March 1998

‘Transparent Technology’. SHSU Mathematics and Informational Systems departmental Colloquium and Seminar Series February 1998.

'Transparent Technology'. Annual Texas Region Six Conference on Technology in Education. Texas A&M University, Bryan TX. November 1997.
Tutorial in 'Distance Education and the World Wide Web'. Seventh South Central Small Colleges Computing Conference, Wichita Falls, TX. April 1996
Panel Discussion. 'Going on-line with Class'. Seventh South Central Small Colleges Computing Conference, Wichita Falls, TX. April 1996
Tutorial in 'Advanced Visual BASIC Features'. Sixth South Central Small Colleges Computing Conference, Shreveport LA. April 1996
The Paperless Business Statistics Course. Seventh Annual Computers on Campus Conference, Houston TX. November 1995.
Tutorial in 'Visual BASIC' Fifth South Central Small Colleges Computing Conference, Amarillo, TX. April 1995

Work or Professional Experiences

Honors and Awards

Other Competencies