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Highlights

Director, School of Electrical Engineering and Computer Science. Evan Pugh Professor and William E. Leonhard Chair Professor. IEEE Fellow and Bell Labs Fellow. Received an Eta Kappa Nu Outstanding Young Electrical Engineer Award (one of three awarded), Bell Labs Distinguished Technical Staff Award, and four best paper awards. Founding Editor-in-Chief of *IEEE Transactions on Mobile Computing* and past Editor-in-Chief of *IEEE Personal Communications*. Director of the Institute of Networking and Security Research at Penn State. Previously Director of both the Mobile Networking Research in Bell Labs Research and the Advanced Mobile Networking in the Wireless Business Unit of Lucent. Co-inventor on 38 patents related to telecommunications, including two that won the Thomas Alva Edison Patent Award.

Education

1992 Ph.D., Electrical Engineering, Columbia University, New York, NY
1987 M.E., Electrical Engineering, The Cooper Union, New York, NY
1986 B.E., Electrical Engineering, The Cooper Union, New York, NY

Employment

2016 Director, School of Electrical Engineering and Computer Science, Penn State

2016-2014- Evan Pugh Professor, Computer Science and Engineering, Penn State
Director, Semantically-Aware Quality of Information-Aware Networking Thrust, Network Sciences Collaborative Technology Alliance (five year renewal of award directly below)

2009-14 Director, Collaborative Technology Alliance Network Sciences Communications Network Academic Research Center (awarded \$35M grant to lead a major network sciences research center sponsored by the U.S. Army Research Lab)

2012- William E. Leonhard Chair in Engineering, Computer Science and Engineering, Penn State

2007- Distinguished Professor, Computer Science and Engineering, Penn State

2006, 2009 Distinguished Researcher, University of Roma La Sapiena (Su 06, Sp 09)

2002-06 Professor, Computer Science and Engineering, Penn State

2002- Founding Director, Institute of Networking and Security Research (formerly Networking and Security Research Center, Ben Franklin Center)

of Excellence), Penn State. Founded center that currently includes faculty from the College of Engineering, Smeal College of Business, Dickinson Law School, Great Valley Campus, Applied Research Lab, and the College of Information Sciences and Technology. Members have received more than \$30M in new funds since 2006.

- 2000-02 Director, Advanced Mobile Networking Department, Wireless Networks Group, Lucent Technologies (concurrent with below)
- 1997-02 Director, Mobile Networking Research Department, Bell Laboratories Research, Lucent Technologies
- 1991-97 Distinguished Member of Technical Staff/Member Technical Staff, Bell Laboratories Research, Lucent Technologies
- 1986-91 Member Technical Staff, Network Performance Center, AT&T Bell Labs

Consulting

- 2016- *Sidley Austin*
Consulting on cellular communication systems.

- 2014- *Sidley Austin*
Consulting on cellular communication systems. Wrote declarations with respect to IPRs for three patents.

- 2012- *Winston Strom*
Consulting on secure transaction systems. Wrote report with respect to non-infringement.

- 2015 *Haynes Boone*
Consulted on patents with respect to signaling in cellular systems

- 2015 *Duane Morris*
Wrote declarations with respect to IPRs for two patents

- 2011-2012: *Sidley Austin*
Consulted on telecommunications systems. Wrote expert report with respect to non-infringement. Deposed on report.

- 2009-2014: *Hogan Lovells*
Consulted on cellular telecommunications equipment. Deposed with respect to declaration on claim construction. Presented tutorial to court appointed Special Master. Testified as expert witness at Markman hearing. Wrote declarations with respect to inventorship, deposed twice on declarations.

- 2011 – 2012: *Nixon Peabody*
Consulted on cellular telecommunication systems.

- 2009 – 2010: *Goodwin Proctor*
Consulted on hybrid circuit/packet switched systems for voice communication. Deposed on expert report with respect to validity.
- 2009-2010: *Crowell and Moring*
Consulted on patent litigation for wireless messaging systems.
- 2007 - 2009: *Goodwin Proctor*
Consulted on cellular telecommunications systems. Deposed on expert report with respect to validity.
- 2007 - 2008: *Moses and Singer*
Consulted on patent litigation regarding secure data access.
- 2007: *Latham*
Consulted on patent litigation regarding telecommunications systems.
- 2006 – 2007: *Kirkland and Ellis*
Consulted on patent litigation regarding cellular services and Internet telephony (two clients).
- 2005-2006: *Moses and Singer*
Consulted on patent litigation regarding smart card technology. Deposed on expert reports regarding infringement and validity.
- 2005-2006: *Fish and Richardson*
Consulted on two patent litigations regarding security in cellular networks (2G and 3G), and WiFi, WiMax, 3G networks; evaluated one patent on wireless technology.
- 2005-2006: *Howrey*
Consulted on patent litigation regarding packet multimedia telephony and wireless technology. Deposed on expert report with respect to claim construction.

Honors and Awards

- **Faculty Teaching Award**, 2014, Dept. of Computer Science and Engineering
- **William E. Leonhard Chair in Engineering**, 2012
- **Thomas Alva Edison Patent Award**, 2009, Multiple-protocol home location register and method of use (lead inventor)
- **Distinguished Professor**, 2007
- **IEEE Computer Society Golden Core Member**, 2005, for being a distinguished volunteer
- **Thomas Alva Edison Patent Award**, 2005, Wireless Packet System for Efficient Wide Area Bandwidth Utilization (lead inventor)

- **IEEE Computer Society Meritorious Service Award**, 2004, for outstanding service as Editor-in-Chief of IEEE Transactions on Mobile Computing
- **IEEE Fellow**, 2002, to contributions to systems for advanced broadband, mobile data and mobile telecommunication networks
- **Bell Labs Fellow**, 2000, for outstanding contributions in mobile wireless networks in the areas of call processing, signaling, mobility management, and applications
- **An Eta Kappa Nu Outstanding Young Electrical Engineer Award** (one of three awarded), 1996
- **Bell Labs Distinguished Staff Award**, 1996, for outstanding research in call processing
- **Keynote talks**, IEEE ICDCS, IEEE MASS, IEEE ICCCN
- **Four best paper awards** (IEEE ISSLS 1993, IEEE BSS 1995, IEEE ISSLS 1996, IEEE ICNP 2010)

Professional Service

Editorships

2006-08	Editor-in-Chief, IEEE Applications of Practice Magazine
2003-04	Technical Editor, ACM Mobile Communications Review
2001-04	Founding Editor-in-Chief, IEEE Transactions on Mobile Computing
2000-10	Senior Advisor, IEEE Personal Communications Magazine
2000-05	Technical Editor, KICS/IEEE Journal of Communications and Networks
1997-99	Editor-in-Chief, IEEE Personal Communications Magazine
1995-10	Associate Editor, ACM/Kluwer Journal on Wireless Networks
1995-10	Associate Editor, ACM/Baltzer Journal of Mobile Networks and Applications
1993-96	Technical Editor, IEEE Personal Communications Magazine

Professional Societies and Associations

2013	Chair, IEEE Computer Society Transactions on Mobile Computing EiC Search Committee
2007-09	Member, Board of Governors, IEEE Communications Society
2006-07	Director of Magazines, IEEE Communications Society
2005-10	Steering Committee Member, IEEE/ACM Transactions on Networking (Co-chair, 2007)
2005-	Steering Committee Member, IEEE Transactions on Mobile Computing (Chair, 2008-10)
2005	IEEE Computer Society Golden Core Member
2004-06	The President's National Security Telecommunications Advisory Committee (NSTAC)
2003	Chair, IEEE Computer Society Pervasive Computing EiC Search Committee
2003-	ACM Member
1984-	IEEE (Fellow, 2002)

Conference Committees

2013	General Chair, ACM Workshop on Mission Oriented Sensor Networks (MiseNet)
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- 2013)
- 2011 General Co-Chair, IEEE International Conference on Network Protocols (ICNP 2011)
- 2009 Program Co-Chair, Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009)
- 2009 Co-Chair, NSF Workshop on Future Directions of Wireless Sensor Systems
- 2008 Chair, NSF Workshop on Wireless Security, Atlanta, GA
- 2008 General Chair, IEEE Mobile Ad-hoc and Sensor Systems (MASS 2008)
- 2007 Program Chair, Annual IEEE International Conference on Pervasive Computing and Communications (PerCom 2007)
- 2006 General Co-Chair, International ICST Conference on Mobile and Ubiquitous Systems (MobiQuitous 2006) (sponsored by IEEE, ICST, and ACM)
- 2005 General Co-Chair, Annual International Conference on Mobile Computing and Networking (MobiCom 2005)
- 2004 Program Co-Chair, IEEE International Conference on Network Protocols (ICNP 2004)
- 2004 Program Co-Chair, International ICST Conference on Mobile and Ubiquitous Systems (MobiQuitous 2004) (co-sponsored by IEEE and ACM)
- 2004 Tutorial Chair, Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2004)
- 2003 Co-Chair, NSF Workshop on Wireless Networks
- 2001 Panel Chair, Annual International Conference on Mobile Computing and Networking (MobiCom 2001)
- 2000 Panel Chair, IEEE International Conference on Network Protocols (ICNP 2000)
- 1997 Tutorial Chair, IEEE INFOCOM 1997
- 1997 Tutorial Chair, IEEE International Conference on Network Protocols (ICNP 1997)
- 1996 Vice-Chair, Annual International Conference on Mobile Computing and Networking (MobiCom 1996)

Research Programs

Network Science:

Director and overall PI of the Communications Network Academic Research Center funded by the U.S. Army Research Lab leading a team of 23 PIs and 9 institutions (Penn State (prime), USC, UC Davis, UC Santa Cruz, CUNY, UC Riverside, North Carolina State, Stanford and Raytheon BBN). Awarded five year renewal; now Director of Semantically-Aware Quality-of-Information Aware Networking Thrust, 25% of overall \$135M Army Research Lab Network Science project. To date research contributions include:

- Defining and formalizing a metric called Quality of Information which allows requestors of information to specify characteristics of the information they require to make decisions, and then enable network algorithms to provide data transport and security services to meet these requirements. Work transitioned to

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