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## EDUCATION

Ph.D., Electrical Engineering, University of California, San Diego (1991)

M.Eng., Electrical Engineering, Cornell University (1982)

B.S., Electrical Engineering, Polytechnic Institute of New York (1981)

## PROFESSIONAL EXPERIENCE

Hewlett-Packard Laboratories

June 1999 to present

*Program Manager and Research Scientist, Exascale Computing Laboratory*

Principal Investigator for the DARPA-sponsored *Internet Control Plane* program. Project lead for a joint industry-academic team developing flow-oriented internet architectures and protocols to improve TCP/IP performance, culminating in HP productization. Coordinated research teams at UC Berkeley, Princeton University, Anagran Inc., Sparta Inc., UC Santa Barbara, and George Mason University.

System architect for the DARPA-sponsored *National Cyber Range* testbed for system security research.

Technical lead for HP's participation in the *PlanetLab* consortium and the NSF Global Environment for Network Investigations (*GENI*) program.

Earlier HP contributions have included managing a computer networking research group, conceiving, patenting and prototyping high-speed communications techniques for mobile wireless devices and privacy enhancing technologies.

Bell Laboratories (Lucent Technologies)

December 1991 to May 1999

*Member of Technical Staff, Research*

Principal Investigator and team leader researching computer networking architectures, protocols and applications. Contributions to ATM, FTTx, routing and congestion control, and digital watermarking.

Bell Laboratories (AT&T)

June 1981 to September 1986

*Member of Technical Staff, Computer Networking Development Laboratory*

Systems engineer and software developer for the first commercial 1Base-T local area network, ISDN-based PBXs, and UNIX-based desktop workstations.

## INDUSTRY AWARDS

*1996 R&D 100 Product Award* — for most innovative R&D products introduced in 1995. For advances in the emerging field of digital image watermarking and related electronic commerce technologies.

## ADVISORY COMMITTEES

National Research Council's *Board of Assessment for the National Institute of Standards and Technologies* - Appointed to a 5 year term (2001-5) overseeing NIST's *Information Technologies Laboratory's* research programs.

National Science Foundation: *Computer and Information Science & Engineering* panelist (2002, 2004, 2007); *Office of CyberInfrastructure* panelist (2005).

National Research Council's *Computer Science and Telecommunications Board* - Image and Instrument Integrity Planning Group; Technology for Copyright Protection (1995)

## TEACHING EXPERIENCE

Rutgers University, Adjunct Faculty: CS 352 — Internet Protocols & Technology (1998)

## PROFESSIONAL SERVICE

IEEE Fellow (2006); IEEE Communications Society — Member, Strategic Planning Committee (1996-97, 1998-99), Electronic Processes Committee (1994-95); ACM; ACM SIGCOMM — Member

Recent Technical Program Committees: ACM SIGCOMM VISA Workshop (2009); ANCS (2009); Information Hiding (2006 - 2008); IEEE INFOCOM (2002); WiTMemo (2006, 2007); UbiSec (2005); IEEE LANMAN (2002 - 2007), TPC Co-Chair (2002), Conference Co-Chair (2004), Steering Committee (2008)

## SIGNIFICANT PUBLICATIONS

"Structuring Internet Media Streams with Cueing Protocols," J. T. Brassil, H. Schulzrinne, *IEEE/ACM Transactions on Networking*, vol. 10, no. 4, August 2002, pp. 466-476. **Best paper award nominee at IEEE Infocom'01** (top 5 of 830 submissions).

"Improving Aggregated Channel Performance through Decentralized Monitoring," P. Sharma, S.J. Lee, J. T. Brassil, K. Shin, *Computer Networks*, vol. 50, no. 11 August 2006, pp. 1675-1691.

"Copyright Protection for the Electronic Distribution of Text Documents," J. Brassil, S. Low, N. Maxemchuk, L. O'Gorman, *Proceedings of the IEEE (Invited Paper)*, vol. 87 no. 7, pp. 1181-1196, July 1999.

## SELECTED PATENTS

*Media program Timing and Identity Delivery Method*, US Pat. 7,530,086

*High Data Rate Communications*, US Pat. 6,950,668

*Document Copying Deterrent Method Using Word Shifting*, US Pat. 5,629,770.

## EDITORIAL

Lead Guest Editor, *IEEE JSAC* issue on ATM LANs, May 1995.

## REFERENCES

Professor Rene L. Cruz (Ph.D. advisor)  
Dept. of ECE, Mail Code R-007, University of California, San Diego  
La Jolla, CA 92093 (619) 534-1426 cruz@ece.ucsd.edu

Prof. Nicholas F. Maxemchuk (Bell Laboratories supervisor)  
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Prof. Henning Schulzrinne (Collaborator)  
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