

**JACK BRASSIL**  
46 Livingston Drive  
Belle Mead, NJ 08540  
(609) 514-1261 (voice) (609) 514-0359 (fax)  
mailto:jack.brassil@hp.com  
[http://www.hpl.hp.com/personal/Jack\\_Brassil](http://www.hpl.hp.com/personal/Jack_Brassil)

## EDUCATION

Ph. D. in Electrical Engineering, University of California, San Diego (1991)  
M. Eng. in Electrical Engineering, Cornell University (1982)  
B.S. in Electrical Engineering, Polytechnic Institute of New York (1981)

## PROFESSIONAL EXPERIENCE

Hewlett-Packard Laboratories June 1999 to present

*Program Manager*, Internet and Computing Platforms Research Center

Principal Investigator for the DARPA-sponsored *Internet Control Plane* program. Developing state-of-the-art internet overlay architectures, communication networks and protocols to improve TCP/IP performance. Coordinating research teams at UC Berkeley, Princeton University, Anagran Networks, Sparta Inc., UC Santa Barbara, and George Mason University.

Serving as technical lead for *PlanetLab* and the NSF Global Environment for Network Investigations (*GENI*) program.

Earlier HP contributions have included conceiving, patenting and prototyping high-speed communications techniques for mobile wireless devices. Managed computer networking research group, culminating in technology transfers to product development. Coordinated HP technology partnership with internationally recognized, Hollywood-based animation creator.

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 1BaseT STARLAN local area networks, 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); *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 ACTIVITIES

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

Technical Program Committees: Information Hiding (2006, 2007), IEEE INFOCOM (2002), IEEE LANMAN (2005 - 2007), WiTMemo (2006, 2007), UbiSec (2005); IEEE LANMAN: TPC Co-Chair (2002), Conference Co-Chair (2004)

## 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.

## PATENTS

*Cooperative Networking Method and System*, US Pat. No. 7,065,575

*High Data Rate Communications*, US Pat. No. 6,950,668

*Advertisement Insertion in Real-Time IP Multicast*, US Pat. No. 6,771,644

*Document Copying Deterrent Method(s)*, US Pat. No. 6,086,706, 5,629,770.

*Signal Quality Measurement*, US Pat. No. 6,611,776.

7 patents pending

## 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)

Dept. of Electrical Engineering, Columbia University

New York, NY 10027 (212) 854-0580 nick@ee.columbia.edu

Prof. Henning Schulzrinne (Collaborator)

Dept. of Computer Science, Columbia University

New York, NY 10027 (212) 939-7042 schulzrinne@cs.columbia.edu