

Henning Schulzrinne

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Professional Preparation

Ph.D., Univ. of Massachusetts Amherst, 1992, Elect. Engineering (J. Kurose, D. Towsley, C. Cassandras).

M.S., Univ. of Cincinnati, 1987, Electrical Engineering (P. A. Ramamoorthy)

B.S.EE, B.S. IE, Technical University of Darmstadt, Germany, 1984.

Appointments

2009–: Julian Clarence Levi Professor of Computer Science

2004-2009: Chair, Department of Computer Science

1996–: Professor of Computer Science and Electrical Engineering, Columbia University

1994-1996: Member of research staff and associate dept. head, GMD Fokus, Berlin

1992-1994: Member of technical staff, AT&T Bell Laboratories

1987-1992: Research Assistant, University of Massachusetts, Amherst

Background

Henning Schulzrinne heads the Internet Real-Time Laboratory. His research program has contributed to the areas of Internet multimedia, Internet telephony, performance evaluation, network security and packet scheduling. Internet protocols co-developed by him are used in international standards, including the common protocol for exchanging multimedia streams across the Internet and protocols for establishing Internet telephony calls as well as Internet multimedia-on-demand streams.

Five Most Closely Related Publications

S. Srinivasan, J. Lee, E. Liu, M. Kester, H. Schulzrinne, V. Hilt, S. Seetharaman, and A. Khan, “NetServ: dynamically deploying in-network services,” in *2nd ACM Workshop on Re-Architecting the Internet*, (Rome, Italy), Dec. 2009.

X. Fu, H. Schulzrinne, H. Tschofenig, C. Dickmann, and D. Hogrefe, “Overhead and performance study of the general internet signaling transport (GIST) protocol,” *IEEE/ACM Transactions on Networking*, Feb. 2009.

X. Wang and H. Schulzrinne, “Pricing network resources for adaptive applications,” *IEEE/ACM Transactions on Networking*, Vol. 14, pp. 506–519, June 2006.

T. Hardie, A. Newton, H. Schulzrinne, and H. Tschofenig, “LoST: a Location-to-Service translation protocol,” RFC 5222, Internet Engineering Task Force, Aug. 2008.

V. Singh, H. Schulzrinne, and K. Miao, “DYSWIS: an architecture for automated diagnosis of networks,” in *Network Operations and Management Symposium (NOMS)*, (Salvador, Bahia), Apr. 2008.

Five Other Significant Publications

P. Pan, E. Hahne, and H. Schulzrinne, “BGRP: sink-tree-based aggregation for inter-domain reservations,” *Journal of Communications and Networks*, Vol. 2, pp. 157–167, June 2000.

M. Papadopouli and H. Schulzrinne, “Seven degrees of separation in mobile ad hoc networks,” in *Proceedings of the IEEE Conference on Global Communications (GLOBECOM)*, (San Francisco, California), Nov. 2000.

J. Rosenberg, H. Schulzrinne, G. Camarillo, A. Johnston, J. Peterson, R. Sparks, M. Handley, and E. Schooler, “SIP: session initiation protocol,” RFC 3261, Internet Engineering Task Force, June 2002.

H. Schulzrinne, A. Rao, and R. Lanphier, “Real time streaming protocol (RTSP),” RFC 2326, Internet Engineering Task Force, Apr. 1998.

H. Schulzrinne, S. Casner, R. Frederick, and V. Jacobson, “RTP: a transport protocol for Real-Time applications,” RFC 1889, Internet Engineering Task Force, Jan. 1996.

Synergistic Activities

Editor: *Computer Communications*, *IEEE/ACM Transactions on Networking* (2000–2008), *IEEE Transactions on Image Processing* (1999–2001), *Journal on Communications and Networks* (1998–2008), *ACM Transactions on Multimedia Computing, Communications, and Applications*, *IEEE Internet Computing* (1996–1999, 2007–2009).

IEEE Communication Surveys, *IEEE Communications Magazine* series editor (1996–1998), guest editor for *IEEE Journal on Selected Areas in Communications*.

General chair, *e-Energy 2011*, *ICNP’09*, *P2P’09*, *IPTComm’07*, *CoNext’07*, *ACM Multimedia’04*; Technical program co-chair, *IFIP/TC6 NETWORKING’09*, *IPTComm’08*, *Infocom’00*; vice general chair, *Infocom’98*.

Program committees: *IEEE Infocom* 1994–2010; *Network and Operating System Support for Digital Audio and Video* (NOSSDAV), 1997–2010; *IEEE Global Internet*, 1997–2004 (selection)

Current boards/panels: Internet2 AMSAC advisory board; *IEEE/ACM Transactions on Networking* steering committee (chair); conference steering committees; Armstrong Memorial Foundation. Past: Internet Architecture Board (IAB); member-at-large, Board of Governors, IEEE Communications Society; co-chair, Internet Technical Committee of the IEEE Communications Society; chair, IEEE Communications Society Technical Committee on Computer Communications.

Collaborators & Other Affiliations

Collaborators (outside Columbia): Keith Ross, NYU-Poly; Volker Hilt (Bell Labs); Hannes Tschofenig (Nokia-Siemens); Wolfgang Kellerer (DoCoMo).

Thesis Advisor: James F. Kurose, Donald Towsley.

Thesis Advisees: Jonathan Rosenberg, Cisco; Xin Wang, SUNY Buffalo; Maria Papadopouli, FORTH; Ping Pan, Gobi Network; Wenyu Jiang, Dolby Labs; Lisa Amini, IBM Research; Kundan Singh, TokBox; Weibin Zhao, ask.com; Xiaotao Wu, Avaya Labs; Knarig Arabshian, Bell Labs; Jonathan Lennox, Vidyo; Ashutosh Dutta, Telcordia; Charles Shen.