



Hamilton Institute

New Sampling Methods in Network Measurement

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Abstract

Traffic measurement underpins the effective management of communications networks. For large ISPs the volume of traffic measurement is enormous, requiring costly resources for transmission, storage and analysis. This talk describes how sampling is used throughout the measurement infrastructure to provide cheap, rapid and accurate estimates of traffic matrices, and also enables new performance measurement applications.

Nick Duffield is Technology Leader in the Internet and Network Systems Research Laboratory at AT&T Labs-Research in Florham Park, NJ. His research focuses on new methods for traffic measurement in communication networks, and their realization in routers, network management systems, and standards. He is active in the Internet Engineering Task Force and was charter Chair of its working group on Packet Sampling. He is a Fellow of the IEEE.

Nick was awarded a B.A. in Natural Sciences (in 1982) and the Certificate of Advanced Study in Mathematics (in 1983) by the University of Cambridge, and a Ph.D. in Mathematical Physics (in 1987) by the University of London. He held postdoctoral and lecturing positions in UCD, DIAS, DCU and Heidelberg, before moving to AT&T in 1995.

Venue: Seminar Room, Hamilton Institute, Rye Hall,
NUI Maynooth

Time: 1.00 - 2.00pm (followed by tea/coffee)

Travel directions are available at www.hamilton.ie