

Exploring the Network/Software Boundary: A Telecommunications Perspective

Mark E. Segal
Telcordia Technologies
Information and Computer Science Research Laboratory
One Telcordia Drive, Room 1M310
Piscataway, NJ 08854
USA
ms@research.telcordia.com

Abstract

As large networked systems steadily increase in size, complexity, and criticality, the importance of designing and implementing them correctly also continues to increase. Many system-building challenges arise at the boundary between application/system software and the underlying network. Researchers in these fields must collaborate to a much greater extent than today in order to make significant progress in some areas. This talk will give a telecommunications-centric perspective of some problems that live at the network/software boundary, and whose solutions will require the cooperation of both networking and software researchers. Technical approaches for addressing some of these problems will also be suggested. The talk will conclude with recommendations for further research in this area.