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Distinguished Seminar
Comp. Sci. Dept.

On the Art and Practice of Internet Forensics

Dr. Hal Berghel, Univ. of Nevada

Feb 4th Thursday, 12:30 to 1:30pm

Venue – Missouri-Ozark Room – Havener Center

Abstract - For the past decade, Internet Forensics has been subsumed under the rubric of Computer Forensics. Typically, Internet forensics is buried in the latter chapters of Computer Forensics books - usually between "the Criminal Justice System" and "Conclusion". In this talk, I will show why Internet Forensics should be considered an art in its own right. While Computer Forensics is older and more mature, it is a very different activity requiring very different skills. Internet Forensics is more about eternal vigilance than search-and-seizure.

Several aspects of Internet Forensics will be discussed, including packet crafting, Denial of Service attacks, stimulus-response theory, malware, packet analysis, intrusion detection, fragmentation theory, and protocol bending, to name but a few.

Familiarity with TCP/IP and basic packet analysis will enhance the audience experience. For a quick refresher, consult the Center for Cybermedia Research Resource page via ccr.i2.nscee.edu.

Brief Bio - Dr. Berghel is currently Professor and Director of the School of Informatics and Associate Dean of the Howard R. Hughes College of Engineering. He is also Director or the Center of CyberSecurity Research and the Identity Theft and Financial Fraud Research and Operations Center. He has held a variety of research and administrative positions in industry and academia during his twenty-five year career in computing. His current research focuses on Internet security and forensics, cyberpublishing, and electronic information management. He is a widely published author, columnist, educator, university administrator, keynote speaker, and talk show guest. His consultancy, Berghel.Net, specializes in security and risk management for government and industry.

Berghel has been selected as ACM Outstanding Lecturer of the Year four times and has also been twice selected as an IEEE Computer Society Distinguished Visitor. His awards and recognition's include the ACM Distinguished Service Award and the ACM Outstanding Contribution Award. He is a Fellow of both the ACM and IEEE. Detailed bio is at - http://cs.mst.edu/department/seminars/Colloquium_2009-10.html.