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# CPN, a smart routing protocol for networks using “smart packets”



**Date: Thu, Sept.5 2013 at 6:30 PM**

**Location: Arthur St. John Hill Auditorium, UMaine, Orono**

Free **ADMISSION**

**RSVP REQUIRED**

**Abstract:** This talk will describe CPN, a smart routing protocol for networks using "smart packets" that constantly monitor the network on behalf of end users, and selects paths that optimize an objective function that can be determined by the network administrator or selected by the individual users. The objective function can include QoS, Energy Savings and Security. We will substantiate the presentation with measurements and experimental results from our network test-bed.

**Bio:** A Fellow of IEEE, ACM and IET, and an expert on the performance evaluation of computer systems and networks, Erol Gelenbe is the Professor in the Dennis Gabor Chair in the Department of Electrical and Electronic Engineering at Imperial College, London. His research has been incorporated into commercial software tools such as QNAP for system performance evaluation and FLEXSIM for manufacturing systems. He has invented new mathematical models for performance analysis such as G-networks and diffusion approximations, and designed the first random access fiber-optics network XANTHOS and the first multi-processor packet switch SYCOMORE. He currently coordinates the EU FP7 Project NEMESYS on mobile network security, and also works on the interaction between energy savings and performance in Cloud Computing and ICT. Erol is a Fellow of the French National Academy of Engineering, and of the Hungarian, Polish and Turkish Science Academies, and has won the ACM SIGMETRICS Life-Time Achievement Award (2008), and IET's (UK) Oliver Lodge Medal for his work.

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