**Laboratoire d'Analyse et d'Architecture des Systèmes du CNRS**

## PEER-TO-PEER OVERLAYS

*par*
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*LAAS-CNRS - Salle de Conférences*

Ce séminaire se déroulera en anglais.
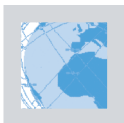
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# résumé de l'exposé

Peer-to-peer networks have enjoyed much popularity in recent years, mainly as a means to exchange illegal content over the Internet.

But beyond their reprehensible use, peer-to-peer has fueled a vast body of work into large-scale, self-organizing and self-repairing distributed system capable of providing various applications (e.g. file distribution, distributed archiving, VoIP, etc) on top of the physical networks.

This seminar samples the range of unstructured and structured P2P networks and their applications.
The focus is placed on underlying mechanisms to support operations such as information publishing, efficient request routing and searching and data retrieval.
We also discuss issues in peer-to-peer networks: the impact of churn on performance, as well as security, trust and accounting issues.

# l'orateur

Dr. Laurent Mathy is a Senior Lecturer in the Computing Department at Lancaster University, and currently on sabbatical as a Research Director at LAAS-CNRS, and at ENSICA in Toulouse, supported by a «Poste Rouge» from CNRS.

He graduated in electrical engineering from the University of Liege, Belgium, in June 1993, and was a research engineer in the Research Unit in Networking (RUN) of the University of Liege, Belgium, from 1993 to 1995.

He was awarded his Ph.D. in Computer Science from Lancaster University, England, in January 2000, on the design of multipoint transport protocols.
He spent the 1995-1996 academic year at the University of British Columbia, Vancouver, Canada, as a visiting scholar.
His research interest includes multimedia content distribution, overlay networks, including peer-to-peer and application-level multicast, dependable networks, traffic control and engineering, and router architectures.

Laurent has many refereed publications in the field and regularly serves on several programme commitees of international conferences. He was the recipient of the «Young Researcher Award» at CFIP'99.