DENISA GABRIELA GHITA

Date of Birth:	May 27^{th}, 1982	*Phone:*	+41 / (0)21 693 2648
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Statement

I am interested in *Network Tomography* and *Internet Accountability*. My research focuses on *identifying network link characteristics* such as loss rate and delay from end-to-end measurements. Based on our theoretical results, we have build an Internet *tomographer* running on PlanetLab.

Work Experience

June/Sept. '07 **Microsoft Research Cambridge**. *Adaptive TCP for Multipath Routing.*
Extended the TCP protocol to benefit from *multipath routing*; Designed a *congestion* controller that achieves both *fairness* and *high throughput*.

Oct. '06/Dec. '07 **Networked Systems Laboratory, EPFL**. *Overlay Bandwidth Provisioning.*
Extended a *Video-on-Demand* application, and tested it on ModelNet and PlanetLab; Experimented with *Admission Control* in *peer-to-peer* networks.

Mar./Sept. '06 **L3S Learning Lab Lower Saxony**. *Trust Negotiation in Peer-to-Peer Networks.*
Extended Protune, a language designed for writing *security and privacy policies*; Designed a meta-interpreter for *filtering policies*; Experimented with different *negotiation strategies*.

Education

2006/Present **Ph.D. Student at Ecole Polytechnique Federale de Lausanne (EPFL)**
Laboratory for Computer Communications and Applications 3, and Operating Systems Lab
Advisors: Prof. Patrick Thiran, and Katerina Argyraki
Thesis: Network Tomography and Internet Accountability at AS granularity

2001/2006 **University Politehnica of Bucharest**, Faculty of Automatic Control and Computer Science
Thesis: Protune, Trust Negotiation in Peer-to-Peer Networks
Overall GPA: 9.80 (nine and 80% out of 10)
Merit scholarship for academic years '03/'04, '04/'05, '05/'06
Study scholarship for academic years '01/'02, '02/'03

1997/2001 National College Sf. Sava, Bucharest. Departement of Mathematics and Physics
Baccalaureate passed with 9.76 (nine and 76% out of 10). Ranked 1^{st} out of 100

Publications

Network Tomography on Correlated Links
D. Ghita, K. Argyraki, and P. Thiran. In IMC, 2010

Netscope: Practical Network Loss Tomography
D. Ghita, H. Nguyen, M. Kurant, K. Argyraki, and P. Thiran. In IEEE INFOCOM, 2010

Skills

Teaching	Teaching Assistant for: Advanced Computer Networks and Distributed Systems, Middleware, Informatique II, Stochastic Models for Communication Systems, and TCP/IP
Languages	Romanian - *native*, English - *fluent*, French - *advanced*, German - *beginner*, Italian - *beginner*
Programming	C, Java, Python, Perl, C^{++}, C$^{\#}$
Leadership	Committee Member of I&C Graduate Student Association 2008/2010 Committee Member of A/RO Romanian Student Association 2007/2008
Leisure	reading, hiking, art cinema, ballet, jazz