WORKSHOP PROGRAM

8:30-8:45 Opening Remarks

8:45-9:45 Keynote Speech

Green Networking Technologies for a Sustainable Future Internet
Franco Davoli, University of Genova, Italy

9:45-10:45 Session 1: Energy Efficiency Optimization (Extended presentations)

Session Chair: Giuseppe Anastasi (University of Pisa)

Cooperative and Non-Cooperative House Energy Optimization in a Smart Grid Perspective
Antimo Barbato, Antonio Capone, Giuliana Carello, Maurizio Delfanti, Marco Merlo, Andrea Zaminga (Politecnico di Milano)

Server Consolidation in Clouds through Gossiping
Moreno Marzolla, Ozalp Babaoglu, Fabio Panzieri (University of Bologna)

10:45-11:15 Coffee break

11:15-12:35 Session 2: Energy Efficient Networking

Session Chair: Marco Ortolani (University of Palermo)

Routers versus switches, how much more power do they really consume?
Hakim Mellah (GERAD and Ecole Polytechnique de Montreal); Brunilde Sanso (Ecole Polytechnique de Montreal)

Power measurement campaign for evaluating the energy efficiency of current NICs
Christian Callegari, Rosario G. Garroppo, Stefano Papagni, Gianfranco Nencioni, Michele Pagano (University of Pisa)

Minimizing the Energy Consumption of Carrier Grade Ethernet with Multiple Spanning Trees
Antonio Capone, Daniele Corti (Politecnico di Milano); Brunilde Sanso (Ecole Polytechnique de Montreal)

12:45-14:00 Lunch

14:00-15:30 Session 3: Towards a Greener Internet (Extended presentations)

Session Chair: Rosario Garroppo (University of Pisa)

Energy Management in IP Traffic Engineering with Shortest Path Routing
Edoardo Amaldi, Antonio Capone, Luca Gianoli, Luca Mascetti (Politecnico di Milano)

ESOL: Energy Saving in the Internet based on Occurrence of Links in the Routing Paths
Anna Abbagnale, Francesca Cuomo, Sabino Papagna (University of Rome Sapienza)

ECOFEN: towards an End-to-end energy Cost mOdel and simulator For Evaluating power consumption in large-scale Networks
Anne-Cecile Orgerie (ENS Lyon, France); Laurent Lefèvre (INRIA, France); Isabelle Guerin-Lassous (Université de Lyon - LIP); Dino Martín Lopez Pacheco (University of Nice)

15:30-16:00 Coffee Break

16:00-17:00 Session 4: Energy-Efficient Distributed Systems

Session Chair: Giuseppe Lo Re (University of Palermo)

Evaluating Energy Consumption in a Cloud Infrastructure
Dario Bruno, Francesco Longo, Antonio Puliafito (University of Messina)

Energy-cost-aware scheduling of HPC workloads
David Aikema, Cameron Kiddle, Rob Simmonds (University of Calgary)

Predictive Models for Energy Saving in Wireless Sensor Networks
Alessandra De Paola, Giuseppe Lo Re, Fabrizio Milazzo, Marco Ortolani (University of Palermo)

17:00-18:00 Panel: Internet sustainability or Internet for sustainability: what really matters?

Session Chair: Marco Conti (IIT-CNR, Italy)

Panelists:
Franco Davoli (University of Genova, Italy)
Karin Anna Hummel (University of Vienna, Austria)
Brunilde Sanso (Ecole Polytechnique de Montreal, Canada)
Luca Valcarenghi (Scuola Superiore Sant’Anna, Italy)

18:00 Final Remarks

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