P11: Universidad Autónoma de Madrid - UAM (Spain)

Description of expertise & activities

The Universidad Autónoma de Madrid is the third largest university in central Spain and it is renowned for its excellence in research. During the last year the Universidad Autónoma de Madrid has been ranked first among all Spanish universities by The Times Higher "World University Ranking" and second best in the "Academic Ranking of World Universities" compiled by the Institute of Higher Education, Shanghai Jiao Tong University. The campus is conveniently located at the north of Madrid and offers outstanding facilities for research and teaching.

The Networking Research Group at Universidad Autónoma de Madrid is devoted to research in development in networking and telematic services, with special emphasis in *traffic analysis, capacity planning, network management and optical and high-speed networking*.

Tasks within BONE

WP11	Research in traffic engineering and traffic modeling, along with contention resolution issues.
WP24	Workpackage leader

Key personnel

Javier Aracil, Full Professor at UAM. He has participated in research projects funded by the National R&D Program, EU Framework Program, National Science Foundation (USA) and contracts with industry. He has been the leader in many of these projects. He has held a Fulbright Scholarship, and has been a postdoctoral researcher at UC Berkeley, studying the Internet traffic properties, and a visiting faculty at University of Texas, Dallas. He has leaded network dimensioning projects at Telefónica Data, where he was responsible of the development of the dimensioning of the ADSL test network in Madrid. On the other hand, he has been responsible of the control system of the Traffic European Observatory ETOMIC, where a system has been implemented that performs active measurements of the network at paneuropean level, with satellite synchronized nodes. He has more than 60 conference and journal papers in optical networks (IEEE Journal on Lightwave Technology) and in analysis and dimensioning of networks (IEEE Communications Letters, IEEE Communications Magazine, Computer Networks, etc.)

Jorge López de Vergara, Associate Professor at UAM, has actively participated in European projects (ACTS, IST) and National R&D Program projects, as well as agreements with enterprises and public administrations. Previously, he held a FPU-MEC research scholarship at Universidad Politécnica de Madrid, and did a placement at Hewlett-Packard Labs at Bristol, United Kingdom. In his research career he has continuously work with the different aspects of Network and Service Management. With respect to this proposal, the most relevant projects in which he has participated are those related to the definition, modeling and integration of management information (Semantic Management project) and quality evaluation mechanisms in Internet access services providers (MECENAS project). He has several publications in this scope in magazines (IEEE Network, IEEE Communications Magazine, Communications of the ACM, LNCS) and relevant IEEE symposiums and workshops (IM, NOMS, DSOM, MMNS). In the scope of optical networks he is part of the UAM team participating at the European Network of Excellence e-Photon/ONe+ and e-MAGERIT project, funded by the Madrid Regional Government under the program PRICIT.