5G COMMUNICATIONS: A THOUSAND TIMES MORE NETWORK CAPACITY

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Speaker

Arturo Azcorra, Director, IMDEA Networks Institute; Full Professor, University Carlos III of Madrid

Abstract

Only a year ago Spaniards began to enjoy 4G mobile networks, which increase tenfold the transmission rates of mobile data when compared to the third generation. 5G network development is now underway, intent on providing a network with a capacity one thousand times higher than the previous generation. But, what is 5G? How will it impact our lives and when will it become available? Who is going to make this leap in communications technology possible? Join us on this event to find out more from the hands of one of Europe's driving forces on 5G communications.

This event will be conducted in English and will be followed by a Q&A session.

About Arturo Azcorra

Arturo Azcorra holds a double appointment as Full Professor at the University Carlos III of Madrid (UC3M) (Madrid, Spain) in the Telematics Engineering Department and Director of IMDEA Networks, where he conducts his research activities. He has returned to his post as Director of IMDEA Networks in June 2012, after a period, from May 2010 to February 2012, during which he held the position of Director General at the Centre for the Development of Industrial Technology (CDTI), an agency of the Spanish Ministry of Economy and Competitiveness (MINECO), previously known as the Spanish Ministry of Science and Innovation (Ministerio de Ciencia e Innovación – MICINN). He previously held the position of Director General for Technology Transfer and Corporate Development also at the MICINN.

He graduated from Loy Norrix High School (Michigan, USA) in 1980. In 1986, he received his M.Sc. degree in Telecommunications Engineering from the Universidad Politécnica de Madrid (Polytechnic University of Madrid) (Madrid, Spain), with the "Sobresaliente" (Outstanding) grade, and was subsequently awarded the Price Waterhouse Prize for Best Student. He then obtained his Ph.D. from the same university in 1989. His Ph.D. received the National Award for Best Thesis (Premio Nacional a la Mejor Tesis Doctoral), jointly granted by the Asociación Profesional de Ingenieros de Telecomunicación (Professional Association of

Telecommunication Engineers) and the then-named Asociación Nacional de Industrias Electrónicas, ANIEL (The National Association of Electronic Industries) (today ANIEL is known as AMETIC, Asociación de Empresas de Electrónica, Tecnologías de la Información,Telecomunicaciones y Contenidos Digitales). In 1993, he obtained an MBA from the Instituto de Empresa (one of the World's most prestigious business schools), graduating first in his class.

He was an Associate Professor at the Universidad Politécnica de Madrid from 1987 to 1998. In 2000, he was appointed Deputy Vice-Provost for Academic Infrastructures at the UC3M. He worked in this role until 2007, teaching and also developing the application of Information Technologies to research. He previously worked at ICSI University of California, Berkeley (Berkeley, USA) as a Visiting Professor in 1999, and then, in 2002, at the Massachusetts Institute of Technology (MIT) (Massachusetts, USA).

Arturo Azcorra is an IEEE Senior Member and an ACM SIGCOMM Member. He has participated in and directed 49 European research and technological development projects, including ESPRIT, RACE, ACTS, IST and ICT programs. He previously held the position of Coordinator of the international Networks-of-Excellence (NoE) E-NEXT (Emerging Networking Experiments and Technologies) and CONTENT (Excellence in Content Distribution Network Research), part of the European Commission's VII Framework Program.

He has also performed direct consulting and engineering work for institutions, such as the European Space Agency, MFS-Worldcom, Madrid Regional Government, RENFE, REPSOL and the Spanish Ministry of Science and Technology. He was the General Co-Chair of the ACM CoNEXT 2008 conference, celebrated in Madrid, Spain, coorganized by IMDEA Networks and University Carlos III of Madrid. He has previously worked as a Program Committee Member in many international conferences, including several editions of IEEE PROMS, IDMS,QofIS, CoNEXT and IEEE INFOCOM. Founder of the ACM CoNEXT conference series and and general chair of its first edition: CoNEXT'05. His publications in national and international magazines, books and conferences number over 100 titles.

Date & Time

Semana de la Ciencia 2014 ranges from November 3th to 16th. Our event will take place on November 4th, from 10:00 to 11:30.

Venue

IMDEA Networks Institute - Avenida del Mar Mediterráneo, 22, 28918 - Leganés, Madrid

Venue capacity: 50