PRESS RELEASE

David GESBERT, professor at EURECOM within the mobile communication dept., is awarded the distinction of “FELLOW” of the IEEE

The young researcher is awarded this high-level distinction for his work in the field of MIMO systems (multiple input multiple output) and their applications in wireless communications networks. The grade of “IEEE Fellow” is awarded to a scientist whose work is of an exceptional standard in the IEEE fields of interest.

IEEE is the world’s largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity. Through its 385,000 members across 160 countries, the association is the leader in a wide variety of fields including aerospace, computer science and telecommunications as well as biomedical engineering, electric energy and electronics. Dedicated to technological advances, IEEE publishes 30% of the world’s technical literature in electrical engineering, computer science and electronics, and has developed over 900 industry standards. The grade of Fellow is the highest recognition awarded by the prestigious learned society.

David Gesbert, you have just been awarded the distinction of “IEEE Fellow”, can you explain what this distinction means to you?

“This distinction is recognition by my peers of the quality of my research and its international visibility. I was therefore delighted when I was told the news. I was also very pleasantly surprised to receive messages of congratulations from certain foreign researchers who I admire and with whom I am often competing. As a researcher, like many others I believe, I am never satisfied. Receiving this type of award plays a very positive role in convincing yourself of the impact of your work. In practical terms, I hope to be able to help raise EURECOM's visibility via this distinction. For a small research centre like ours, we must make the most of every opportunity to increase our influence and thus recruit talented individuals!”

Working on research which today focuses on the distribution of communications, he was recruited on the basis of his expertise in signal processing for communications, especially in the field of multi-antenna systems (MIMO) which he worked on during his post-doc at Stanford University; he joined EURECOM in October 2003. Since then, the field has developed and new tools have emerged that are gradually revolutionizing the design of the physical layer of wireless networks, such as dynamic relays and in particular cooperation and coordination strategies to combat the growing phenomena of interferences in large networks.

It is this issue of distributed coordination that David Gesbert and his students are currently working on. A process where the transmission parameters, for each transmitter, need to be optimized with a minimum information exchange. This involves optimization theory, signal processing and information theory. Within EURECOM’s Mobile Communications department, he recently took responsibility for the Communication Theory Group which brings together researchers and professors working on communications theory in general. “This means I have to develop a broader view of our research, a particularly rewarding exercise,” says David Gesbert.

Effective on 1st January 2011, the distinction will be awarded to him at a ceremony organized during the major communications conference, ICC2011 in Kyoto. This is the 5th time that the IEEE has recognized excellence in research conducted by EUROCOM's teaching faculty.

Before David Gesbert, Dirk Slock, Giuseppe Caire, Claude Gueguen and Pierre Humblet were all previously honored with this distinction. This is in addition to the "IEEE Major Educational Innovation Award" awarded for the first time outside of the United States, to EURECOM for the quality of its teaching programmes and its international influence.