

Eva Antonino receives a world-class award for her contributions in the field of telecommunications



Dr. Eva Antonino, lecturer, researcher and Deputy Director of Research at the Institute of Telecommunications and Multimedia Applications (iTEAM) of the Universitat Politècnica de València, has been awarded by the **Institute of Electrical and Electronics Engineers (IEEE)**, the largest and most prestigious international association of engineers, for her contributions in the field of telecommunications.

Antonino has received the Lot Shafiq Mid-Career Distinguished Achievement, a worldwide award that is given to very outstanding women in the middle of their professional career (they must be under 41 years old).

The jury distinguished the researcher from the iTEAM Institute of the UPV and professor at the College of Telecommunication Engineering (ETSIT) both for her contributions to the systematic design of antennas for practical applications and for promoting women's access to engineering.

Eva Antonino works on the design of antennas for applications in the microwave band: from VHF and UHF to mobile communications 4G and 5G and ultra-wideband (UWB), including antennas for WiFi, Bluetooth, Internet of things (IoT) devices and body environment sensors.

Currently, her research focuses on the design of high gain antennas for new applications of 5G systems, through a grant supported by the Ministry of Science, Innovation and Universities. "In these systems, antennas play a fundamental role, so it is necessary to propose new design strategies to meet their objectives," says Antonino.

Eva Antonino has just returned from a stage at the Georgia Institute of Technology (United States), learning about new materials and additive manufacturing technologies applied to antenna design, in one of the leading centers in this area.

Gonzalo Safont receives The IEEE SMCS Award for Outstanding phd thesis on Cybernetics



Dr. Gonzalo Safont, Postdoctoral Researcher at the Signal Processing Group of the iTEAM Research Institute has been awarded by the **IEEE Systems, Man, and Cybernetics Society (SMCS)** as part of their Outstanding Thesis Grant Initiative. This worldwide program aims to recognize the outstanding students and young professional members of SMCS who, early in their career, contributed to major advancements of theory or applications of systems science & engineering, human-machine systems, and cybernetics.

Dr. Safont's thesis, "New Insights in Prediction and Dynamic Modeling from Non-Gaussian Mixture Processing Methods," received the grant for Outstanding PhD Thesis Work on

the field of Cybernetics. "This work is an essential contribution to develop integrated systems to process multimodal data in big data contexts," declared Dr. Addisson Salazar, senior researcher at iTeAM. Gonzalo's current work deals with the application of the methods proposed in his PhD thesis to the joint modeling of electroencephalographic data and functional magnetic resonance imaging. This is part of a joint work with Hospital Universitari i Politècnic La Fe and the ERESA Medical Group with the objective of exploring and diagnosing epileptic patients.

Professor José Capmany commissioned as IDEAS entrepreneurial ambassador



Professor José Capmany was commissioned last academic year as entrepreneurial ambassador by IDEAS UPV, the University body that provides entrepreneurship training and advice for spin-off company creation. This acknowledgment was awarded during the **12th IDEAS UPV Awards Ceremony** at the Polytechnic City of Innovation in December 2018.

According to the members of the jury, “not only is Prof. Capmany a worldwide renowned scientist in his research area (he was awarded King James I Prize on Novel Technologies in 2012), but he also is a great entrepreneur as evidenced by the spin-off companies he has founded over the years, spreading UPV excellence around the world.”

MIGUEL FERRANDO ROCHER HAS BEEN AWARDED WITH THE COIT-AEIT AIRBUS SPACE AND DEFENCE AWARD



On June 14th, the awards ceremony of the **Telecommunication Engineers Awards COIT-AEIT** took place at the Academy of Arts and Cinematographic Sciences of Spain. These awards reflect a commitment to excellence in the training and development of Telecommunication Engineers.

In this 39th edition, **Dr. Miguel Ferrando Rocher**, a researcher at the Electromagnetic Radiation Group of the iTEAM Research Institute, has been awarded with the **AIRBUS Space and Defence Award** for his doctoral thesis based on new antenna solutions in the millimeter wave-band for satellite communications. Dr. Miguel Ferrando Rocher received the award from Carlos Montesano, R&D Director of Airbus Spain.

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Last July 11th, 2019, the **XXI edition of the Valencian Telecommunications Awards and Night**, organized by the Valencian College of Telecommunications Engineers (COITCV), the School of the Universitat Politècnica de València and Generalitat Valenciana took place in l'Hemisfèric of the City of Arts and Sciences in Valencia. This event was sponsored by Cellnex/Adesal, HPE-Intel, Indra-Minsalt, Orange, Sothis, Telefónica and Vodafone.

Prof. Narcís Cardona, Director of the iTEAM Research Institute, received the Award as “Outstanding person in the field” for his important role in the dissemination and promotion of Telecommunications and ICTs.

Prof. José Capmany has obtained a Proof of Concept grant awarded by the European Research Council



Professor Capmany was awarded in 2016 with a prestigious **European Research Council** (ERC) Advanced Grant to design, manufacture and characterize a universal, multifunctional photonic chip. Now, in relation to that grant, he has obtained a **Proof of Concept** grant, where he and his team in the Photonics Research Labs of the iTEAM Research Institute will carry out the **Field Programmable Photonic Arrays** project (FPPA), whose objective is the technological development of an integrated photonic matrix with programmable gates, patented by UPV. With this type of grant, valued at €150,000, the ERC aims to foster transferring the results obtained in the Excellent Science ERC projects to the marketplace. The FPPA project kicked off in October and will last one year and a half.

Another of the aims of the project is the launching of a new UPV spin-off, whose activity will be focused on the development and commercialization of these new programmable photonic devices. They have

a general purpose and they can be used, for example, in 5G digital communications, sensors, Internet of Things, artificial intelligence and quantum information systems, among other applications.

“The FPPA device,” says Capmany, “shares similar features with FPGA, used in electronics, although it is also different in several significant aspects. FPGA means more than 50% global market of the complex electronic devices, and our aim is for FPPA to have a similar evolution and market share in parallel with the development of the embedded photonics. Since it is a programmable and highly versatile device, it can be used in almost any field of application, not only in systems that combine radio and optics.”

İTEAM RECEIVES THE 2019 RESEARCH AWARD FROM THE SOCIAL COUNCIL OF THE UNIVERSITAT POLITÈCNICA DE VALÈNCIA



The **Social Council** of the **Universitat Politècnica de València** (UPV) has recognized the research excellence of the **İTEAM Research Institute** with the 2019 Research Award. The award was received by our director Narcís Cardona in the XVIII Award ceremony chaired by the highest authority of the Social Council of the UPV, Mónica Bragado, last May 9th, 2019.

The Social Council of the UPV is the body in charge of supervising the economic activities of the university and the performance of its services. In turn, it is responsible for promoting the collaboration of society in the financing of the university, as well as the relationship with its cultural, professional, economic and social environment.