

For immediate release

Elisabet Pérez Cabré Elected SPIE Senior Member



BELLINGHAM, Washington, USA – February 27, 2011 – SPIE will honor 28 new Senior Members of the Society this year. Senior Members are Members of distinction who are honored for their professional experience, their active involvement with the optics community and SPIE, and/or significant performance that sets them apart from their peers. 72 SPIE members have received this promotion since the Senior Member distinction was introduced in 2008.

“The annual recognition of Senior Members provides an opportunity for us to acknowledge Members for their outstanding technical contributions and service to SPIE,” says Katarina Svanberg, SPIE President.

Elisabet Pérez Cabré, Applied Optics and Image Processing Group (GOAPI), Universitat Politècnica de Catalunya, Spain, for achievements in optical information processing and security systems.

Pérez Cabré has made outstanding contributions to the fields of optoelectronic signal processing, pattern recognition, nonlinear optical correlators, and optical encryption methods for high-security systems. She and her co-workers have created nonlinear distortion-tolerant filters for road sign detection, as well as a multispectral pattern recognition system with high chromatic sensitivity, and nonlinear pattern recognition systems with adjustable discrimination capability to shape, color, and texture of objects.

More recently, her work on ID tags has been influential including development of optical ID tags tolerant to strong deformations for remote identification of moving objects, near infrared optical ID tags for improved security systems, and improved information compression for optical ID tags. Two of her journal papers on road sign detection and optical ID tags have received the Best Land Transportation Award of the IEEE Vehicular Technology Society in 2002 and 2005, respectively. She has also worked in close collaboration with her colleagues to develop a technique based on biometric and multifactor authentication for which her research group received a Technological Research Special Mention from the City Hall of Barcelona in 2007.

Pérez Cabré has established collaborations with research groups around the world, particularly with the University of Warsaw in Poland and the University of Connecticut in the United States. Her contributions to the greater scientific community also include work on numerous Spanish and international conferences and through active membership in the Spanish Optical Society and the European Optical Society.

With SPIE, Pérez Cabré has served on the program committee for the Optics and Photonics for Information Processing conference and the Optical Information Systems conference at the SPIE Optics + Photonics symposium, and as an active participant of many more conferences. She is also a co-author of three chapters in books published by SPIE Press and a reviewer for the SPIE journal *Optical Engineering*.

SPIE, the international society for optics and photonics, was founded in 1955 to advance light-based technologies. Serving more than 180,000 constituents from 168 countries, the Society advances emerging technologies through interdisciplinary information exchange, continuing education, publications, patent precedent, and career and professional growth. SPIE annually organizes and sponsors approximately 25 major technical forums, exhibitions, and education programs in North America, Europe, Asia, and the South Pacific, and supports scholarships, grants, and other education programs around the world. See www.SPIE.org for information.

###

Media Contact:

Stacey Crockett
Media Relations Coordinator
StaceyC@spie.org
Tel: +1 360 685 5458



###