Last update: June 2016

Josiane Zerubia has been a permanent research scientist at INRIA since 1989 and director of research since July 1995. She was head of the PASTIS remote sensing laboratory (INRIA Sophia-Antipolis) from mid-1995 to 1997 and of the Ariana research group (INRIA/CNRS/University of Nice), which worked on inverse problems in remote sensing, from 1998 to 2011. Since January 2012, she has been head of Ayin research group (INRIA-SAM) dedicated to models of spatio-temporal structure for high resolution image processing with a focus on remote sensing and skincare imaging. Before that, she was with the Signal and Image Processing Institute of the University of Southern California (USC) in Los Angeles as a postdoc. She also worked as a researcher for the LASSY (University of Nice/CNRS) from 1984 to 1988 and in the Research Laboratory of Hewlett Packard in France and in Palo-Alto (CA) from 1982 to 1984. She received the MSc degree from the Department of Electrical Engineering at ENSIEG, Grenoble, France in 1981, the Doctor of Engineering degree, her PhD and her "Habilitation", in 1986, 1988, and 1994 respectively, all from the University of Nice Sophia Antipolis, France. She is "chevalier de l'Ordre National du Mérite" since 2002.

She is a Fellow of the IEEE (2003-) and IEEE SP Society Distinguished Lecturer (2016-2017). She was a member of the IEEE IMDSP TC (SP Society) from 1997 till 2003, of the IEEE BISP TC (SP Society) from 2004 till 2012 and of the IEEE IVMSP TC (SP Society) from 2008 till 2013. She was associate editor of IEEE Trans. on IP from 1998 to 2002, area editor of IEEE Trans. on IP from 2003 to 2006, guest co-editor of a special issue of IEEE Trans. on PAMI in 2003, member of the editorial board of IJCV from 2004 till March 2013 and member-at-large of the Board of Governors of the IEEE SP Society from 2002 to 2004. She has also been a member of the editorial board of the French Society for Photogrammetry and Remote Sensing (SFPT) since 1998, of the Foundation and Trends in Signal Processing since 2007 and member-at-large of the Board of Governors of the SFPT since September 2014. She has been associate editor of the on-line resource: Earthzine (IEEE CEO and GEOSS) since 2006.

She was co-chair of two workshops on Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR'01, Sophia-Antipolis, France, and EMMCVPR'03, Lisbon, Portugal), co-chair of a workshop on Image Processing and Related Mathematical Fields (IPRM'02, Moscow, Russia), technical program chair of a workshop on Photogrammetry and Remote Sensing for Urban Areas (Marne La Vallée, France, 2003), co-chair of the special sessions at IEEE ICASSP 2006 (Toulouse, France) and IEEE ISBI 2008 (Paris, France), publicity chair of IEEE ICIP 2011 (Brussels, Belgium), tutorial co-chair of IEEE ICIP 2014 (Paris, France), general co-chair of the workshop Earthvision at IEEE CVPR 2015 (Boston, USA) and a member of the organizing committee and plenary talk co-chair of IEEE/EURASIP EUSIPCO 2015 (Nice, France). She also organized and chaired an international workshop on Stochastic Geometry and Big Data at Sophia Antipolis, France, in November 2015. She is part of the organizing committees of both GRETSI 2017 symposium (Juan les Pins, France) and ISPRS 2020 congress (Nice, France).

Image, Video She gave plenary talks to the Signal, and Communications Symposium (ISIVC'16, Tunis, Tunisia), "Journées de Statistiques" (JDS'11, Tunis, Tunisia), the workshop on Computer Vision for Remote Sensing of the Environment (CVRS'11 at ICCV'11, Barcelona, Spain), the workshop on random processes for signals and images modeling (PHARES'10, La Manouba, Tunisia), the ISPRS workshop in urban remote sensing (CMRT'09, Paris, France), the image processing conferences ACIVS'08 and EUSIPCO'02. She was invited to give long talks to the specialized workshops SIMA'14 in Ein-Gedi in May 2014, Imaging in Geospatial Applications organized by the Institute of Mathematics and its Applications (IMA) and by the Geospatial National Intelligence Agency (GNA) in Minneapolis in September 2013, Stochastic Geometry and Spatial Statistics organized by EURANDOM in Eindhoven in April 2000. She gave invited talks or seminars in more than 120 universities or research centers including ENS Ulm, ENS Cachan, UPMC (Paris VI), Telecom ParisTech, Pasteur Institute, INRA, University of Cambridge, Imperial College, UCL, TC Dublin, ETHZ, EPFL, CNR Pisa, University of Genoa, UPC Barcelona, University of the Bundeswehr in Munich, Belgium Royal Military Academy, KU Leuven, CWI in Amsterdam, University of Iceland, University of Thessaloniki, University of Szeged, Academy of Science of Hungary, West University of Timisoara, Bucharest Polytechnic University, MIT, Harvard, Courant Institute (NYU), Stanford, Berkeley, UIUC, USC, ASU, Georgia Tech, University of Maryland, University of Montreal, McGill University, McMaster University, University of British Columbia, Academy of Science of China, UST in Hong Kong, Chinese University of Hong Kong, City University of Hong Kong, NTU Singapour, University of Sao Paulo, Hebrew University of Jerusalem, Ben Gurion University, Tel Aviv University, University of Haïfa, Technion, Weizmann Institute, SUP'COM Tunis, ENSI Tunis, University of Tunis-El Manar, as well as in the following companies: CNES in Toulouse, Sagem/Safran in Argenteuil, Galderma R&D in Sophia Antipolis, BASF in Levallois-Perret, Philips R&D in Eindhoven, General Electric R&D in Herzliya...

She has been Professor in image processing at ISAE-SUPAERO in Toulouse since 1999 and at UNS since 1988, in particular for the Masters 2 SVS-ISAB, BIOCOMP and VIM. She taught image analysis at ENS Lyon from 2006 to 2011, remote sensing at Ecole Navale from 1998 to 2000 and at ENSTA ParisTech from 1997 to 2000, as well as neural networks at Mines de Paris/X (ISIA) from 1991 to 1997. She also read courses on stochastic and variational models in image processing at the University of the French West Indies in Pointe à Pitre, at the University of Sao Paulo, at SupCom Tunis, at the University of Nice Sophia Antipolis and at the Summer Schools of CIMPA-UNESCO, CNRS and SSIMA.

She has been advisor or co-advisor of 58 Masters students, 20 interns from foreign universities, 33 PhDs and 23 Post-docs from Algeria, Brazil, Canada, China, Egypt, France, Germany, Greece, Hungary, India, Iran, Ireland, Israel, Italy, Ivory Coast, Korea, Mexico, Morocco, Norway, Pakistan, Romania, Russia, Sweden, Tunisia, Turkey, Ukraine, United Kingdom, USA, since 1989.

She was part of the committee of the SIF-G. Khan PhD Thesis Prize, supported by the French Academy of Science, in 2011.

She has been co-author of 6 patents from 2001 to 2012. She has been PI of 30 contracts with industry, of many bilateral academic contracts with Brazil, China, Hungary, Israel, Italy, the Netherlands, Russia, United Kingdom, USA, and of an ANR contract in France. She participated in 3 European projects: MOUMIR and IMAVIS during the 5th Framework, MUSCLE during the 6th Framework. She has also been a consultant for international companies such as Sanofi from 2006 to 2010 or Galderma since 2011, an expert to CERT "Spatial systems" (CNES) in image processing for Earth observation from 2005 to 2011 and to CS company in space imaging in 2005 and 2006.

Finally, from 2010 till mid-2016, she published 1 book with Prof. Zoltan Kato on "Markov Random Fields in Image Segmentation", 3 book chapters, 22 journal papers (IEEE Trans. PAMI, IP, GRS; IJCV; Pattern Recognition…) and 53 papers in fully reviewed international conferences.

Her main research interest is in image processing using probabilistic models. She also works on parameter estimation, statistical learning and optimization techniques.