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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); and publicity chair of IEEE ICIP 2011 (Brussels, Belgium). She is currently a member of the organizing committee of a Workshop on Mathematics of the Planet Earth (MPE) (May 2014, Mumbai, India), tutorial co-chair of IEEE ICIP 2014 (Paris, France) and plenary talk co-chair of EUSIPCO 2015 (Nice, France).

She has been advisor or co-advisor of 57 Masters students, 33 PhDs and 23 Post-docs from Algeria, Brazil, Canada, China, Egypt, France, Germany, Greece, Hungary, Ireland, India, Israel, Italy, Ivory Coast, Korea, Mexico, Morocco, Norway, Pakistan, Romania, Russia, Sweden, Tunisia, Turkey, Ukraine, United Kingdom, USA, since 1989.

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Finally, during the last 5 years, she published 1 book with Prof. Zoltan Kato on "Markov Random Fields in Image Segmentation" (Foundation and Trends in Signal Processing Series, NOW Publisher, World Scientific), 3 book chapters, 19 journal papers (IEEE Trans. PAMI, IP, GRS; IJCV; Pattern Recognition…) and 48 papers in fully reviewed international conferences.

Her current research interests are in image processing using probabilistic models and variational methods. She also works on parameter estimation and optimization techniques.