Boshra Rajaei

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Job info:

•	Sadjad University of Technology	Computer dept.
	Assistant professor	2013 – present
	Faculty member	2011 – 2013
•	ESPCI ParisTech University, France	Institut Langevin
	Postdoctoral researcher	2014-2016
•	ENS de Cachan University, Paris, France	CMLA lab.
	Research fellow	2014 – present
•	Ferdowsi University of Mashhad	MV lab
	Researcher	2008 – 2013
•	ENS de Cachan University, Paris, France	CMLA lab.
	Internship	Jan – July 2012
•	EPFL University, Lausanne, Switzerland	LTS4 lab.
	Internship	Jan – July 2012

Yesna P	ars Company	Mashhad, Iran
	Project manager advisor	2013 – present
	Software analyzer and developer	2005 – 2007
• Ferdow	si University of Mashhad	Computer dept.
	Lecturer	2008 – 2009
Bina Pa	rdaz Shargh Company	Mashhad, Iran
	Software analyzer and developer	2007 – 2008
• Khorasa	n Higher Education Institute	Computer dept.
	Faculty member	2007 – 2010
Khayyar	n Higher Education Institute	Computer, dept.
	Lecturer	2007 – 2008
Azad Ur	niversity, Quchan branch	Computer dept.
	Lecturer	2005 – 2008

Education:

Ferdowsi University of Mashhad	Mashhad, Iran
Ph.D. in Software Engineering	2008 – 2013
M.Sc. in Software Engineering	2004 – 2007
Azzahra University	Tehran, Iran
B.Sc. in Software Engineering	1999 – 2004

Research interests:

- Image/video processing
- Image/video compression
- Compressed sensing
- Image denoising
- 3D video

Selected teaching experiences:

Image processing (2010 – present)

Software engineering (2005 – present)

Selected Publications:

- Boshra Rajaei, Rafael Grompone von Gioi, "Gestaltic grouping of line segments", Submitted to image processing online (IPOL), 2017.
- Boshra Rajaei, Sylvain Gigan, Florent Krzakala, Laurent Daudet "Robust phase retrieval with the swept approximate message passing". Image Processing On Line, 7 (2017), pp. 43–55. https://doi.org/10.5201/ipol.2017.178, 2017.
- Philipp del Hougne, Boshra Rajaei, Laurent Daudet, Geoffroy Lerosey "Intensity-only measurement of partially uncontrollable transmission matrix: demonstration with wave-field shaping in a microwave cavity". Optics Express, 24(16), pp.18631-18641, 2016.
- Boshra Rajaei, Sylvain Gigan, Florent Krzakala, Laurent Daudet "Fast phase retrieval for high dimensions: A block-based approach". IEEE Signal Processing Letters 23.9 (2016): 1179-1182, 2016.
- Boshra Rajaei, Thomas Maugey, Hamid-Reza Pourreza and Pascal Frossard.
 "Rate-distortion analysis of multiview coding in a DIBR framework". Annals of Telecommunication, 68 (11-12): 627-640, 2013.
- Boshra Rajaei. "An analysis and improvement of BLS-GSM denoising method". Image Processing On Line, 4(2014): 44-70, https://doi.org/10.5201/ipol.2014.86.

- Arian Maleki, Boshra Rajaei and Hamid-Reza Pourreza. Rate-distortion analysis
 of directional wavelets. IEEE Transactions on Image Processing. Vol. 21, No. 4,
 pp. 588 600. 2012.
- Boshra Rajaei, Hadi Sadoghi Yazdi, Sohrab Effati. Fisher over Fuzzy Samples.
 Int. J. of Computer Theory and Engineering (IJCTE). Vol. 1, No. 5, pp. 632 637.
 2009.

Selected Conferences:

- Boshra Rajaei, Eric W. Tramel, Sylvain Gigan, Florent Krzakala, and Laurent Daudet. "Intensity-only optical compressive imaging using a multiply scattering material: a double phase retrieval system." 41th, IEEE international conference ICASSP 2016, Shanghai, China.
- Boshra Rajaei, Rafael Grompone von Gioi, Jean-Michel Morel. "From line segments to more organized gestalts". 2th IEEE conference SSIAI 2016, New Mexico, USA.
- Arian Maleki, Boshra Rajaei and Hamid-Reza Pourreza. Rate-distortion improvement of directional wavelets by Megablocking. 36th IEEE international conference ICASSP, 2011. Prague, Czech Republic.
- Boshra Rajaei, Hadi Sadoghi Yazdi. Real Data Classification Using Fuzzy Type of Fisher Discriminator. 3rd Joint Congress on Fuzzy and Intelligent Systems. ISFS2009. Yazd, Iran.
- Boshra Rajaei, Mohamad Hosein Yaghmai Moghadam. A Fuzzy Routing Algorithm for Low Earth Satellite Networks. First Joint Congress on Fuzzy and Intelligent Systems. ISFS2007. Mashhad, Iran.
- Boshra Rajaei, Hamid-Reza Pourreza. Texture Classification using Curvelet Transform. Third Int. Conf. on Artificial Intelligence in Engineering and Technology. ICAIET-2006. Sabah, Malaysia.

Projects involved in:

 Analysis, design and development of Executive Information System (EIS) software

Yesna Pars Company

Design and implementation of virtual studio tracking system
 Bina Pardaz Shargh Company

A nunseparable directional wavelet transform for image compression

MV lab, Ferdowsi University of Mashhad

• Rate allocation in multiview video coding

LTS4 lab, EPFL University, Lausanne, Switzerland

Analysis and improvement of BLS-GSM denoising method
 CMLA lab, ENS de Cachan, Paris, France

Programming skills:

- Matlab
- C/C++/C#