Volodymyr Kudriashov, Ph.D.

Fields of Interest

Imaging with passive systems. Beamforming and signal processing in bistatic radiometers based on aperture synthesis principle. Generation and fusion of radiometric and radar images.

Contact information

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1113 Sofia, Bulgaria



Key Skills

English	Fluent	
Ukrainian	Native Speaker	
Russian	Native Speaker	
Imaging, Beamforming and Signal Processing in both continuous		
waveform active radars and radiometers including bistatic systems	Professional Experience	
based on aperture synthesis principle		
Matlab; Algorithms; Research; Science; Simulation; Programming		
IBM PC; Microsoft Windows ver. 98 – 8; Microsoft Office ver. 97-		
2007		
Experimental researches using equipment produced by GaGe,	Experience	
National Instruments and Agilent		
Wolfram Mathematica		

Work Experience

dn	Current position	Postdoctoral Fellow
August 2014 – uto present	Research field	Acoustic Imaging
	Name of Project	AcomIn: Advanced Computing for Innovation
	Name of	Department of Mathematical Methods for Sensor Information
ugu tc	Organization	Processing, Institute of Information and Communication
Y		Technologies at the Bulgarian Academy of Sciences
- ×	Latest position	Research Fellow
2009 – July 2014	Research field	Imaging and Signal Processing in both bistatic radiometer and noise
		waveform radar based on antennas with beam synthesizing.
	Name of	Department for Nonlinear Dynamics of Electronic Systems,
June	Organization	O. Ya. Usikov Institute for Radiophysics and Electronics of the
		National Academy of Sciences of Ukraine

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Main Publications

1	Tomographic imaging using noise radar and 2D aperture synthesis / K.A. Lukin, P.L. Vyplavin, V.V. Kudriashov, V.P. Palamarchuk, O.V. Zemlyaniy, S.K. Lukin, Jong-Min Lee, Jong-Soo Ha, Sun-Gu Sun, Youn-Sik Kang, Kyu-Gong Cho, Byung-Lae Cho // Applied Radio Electronics. – 2013. – Vol. 12, No. 1. – p. 152-156.	
2	Experimental evaluation of the accuracy of object shifts measurements using the method of synthetic aperture radar differential interferometry (<i>translated from Russian</i>) / K.A. Lukin, K. Kulpa, V.P. Palamarchuk, P.L. Vyplavin, V.V. Kudriashov, J. Kulpa, L.V. Yurchenko // Applied Radio Electronics. – 2012. – Vol. 11, No. 3. – p. 366-372.	
3	Range-azimuth coherent radiometric imaging based on Ka-band antenna with beam synthesis / Kudriashov V.V., Lukin K.A., Palamarchuk V.P., Vyplavin P.L. // Applied Radio Electronics. – 2012. – Vol. 11, No. 3. – p. 328-334.	
4	Coherent radiometric imaging with a Ka-band ground-based synthetic aperture noise radar / V.V. Kudryashov, K.A. Lukin, V.P. Palamarchuk, P.L. Vyplavin // Telecommunications and Radio Engineering, Vol. 72, No. 8, pp. 699-710. <i>Originally published as</i> Formation of coherent radiometric images in Ka-bang using ground-based noise radar with antenna pattern synthesizing (<i>translated from Russian</i>) / V.V. Kudriashov, K.A. Lukin, V.P. Palamarchuk, P.L. Vyplavin // Journal of O. Ya. Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine "Radiophysics and Electronics", 2012, Vol.3 (17), № 3, pp. 41-47.	
5	Experimental evaluation of hardware stability of ground-based noise waveform synthetic aperture radar equipment used for differential interferometric measurements (<i>translated from Russian</i>) / Vyplavin P., Kudriashov V., Palamarchuk V., Lukin K. // Applied Radio Electronics. – 2012. – Vol. 11, No. 1. – p. 48-53.	
6	Experimental investigation of factors affecting stability of interferometric measurements with ground based noise waveform SAR / K.A. Lukin, V.P. Palamarchuk, P.L. Vyplavin, V.V. Kudriashov // International Journal of Electronics and Telecommunications. – 2011. – Vol. 5, No. 3. – P. 389–393.	

Awards

- 1. Student paper award for The Best Oral Presentation (1st prize) at conference «Signal Processing Symposium, SPS-2013».
- 2. Diploma for second place at session «Radioengineering systems and radio communication facilities» at conference «Modern Problems of Radioengineering» within the framework of the 17th International Youth Forum "Radioelectronics and Youth in XXI century".
- 3. Next to the Best Presentation Award at session «Passive Radars» at conference «12th Kharkiv Young Scientists Conference on Radiophysics, Electronics, Photonics and Biophysics» for «Range-Azimuth Radiometric Imaging Using Ka-Band Antenna With Synthesized Beam» (07, December 2012), Ukraine, Kharkiv.

Education

	Degree	Ph.D.
1	Specialty	Radiophysics
Thesis name Formation of coherent radiometric images with b based on antennas with beam synthesis Name of Department for Nonlinear Dynamics of Electronic		Formation of coherent radiometric images with bistatic radiometer
		based on antennas with beam synthesis
Oct. Nov	Name of	Department for Nonlinear Dynamics of Electronic Systems,
	Organization	O. Ya. Usikov Institute for Radiophysics and Electronics of the
		National Academy of Sciences of Ukraine

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	Activity title	Experience exchange
2011	Research field	Beamforming and Signal Processing in Passive Radar.
June,	Name of	Digital Signal Processing Laboratory, Faculty of Electronics and
Ju	Organization	Information Technology, Warsaw University of Technology.
Sept. 2004– June 2009	Degree	Master
	Specialty	Research Engineer in Electronics and Telecommunications
	Faculty	Radio Engineering
	University	Kharkiv National University of Radioelectronics
9 1	Adv. Training	Programming in MS Visual C++ 2008 course (4 Nov., 2011)

Submitted scholarships proposal

The National Academy of Sciences of Humine acheloushing for		
The National Academy of Sciences of Ukraine scholarships for	March 2012	Successful
young scientists	141011 2012	Successiui

Personal info

Surname	Kudriashov	
Name and patronymic	Volodymyr Viktorovych	
Date of birth	04, July 1987	
Nationality	Ukrainian	

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