University of Birmingham

Dr Marina Gashinova PhD

Lecturer

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About

Dr Gashinova's broad area of research interests includes bistatic radars, signal processing, theoretical modelling in propagation and numerical techniques for microwave structures modelling and design.

She has published over 50 conference and journal papers and served as a reviewer for various publications and as a technical program committee member for radar conferences.

Qualifications

- PhD in physics and mathematics, 2003
- MSc (Hons) in mathematics, Saint-Petersburg State University, 1991

Biography

Marina Gashinova received the MSc in mathematics from St Petersburg State University in 1991 and was awarded a PhD in radiophysics in 2003 from St Petersburg Electrotechnical University, St Petersburg, Russia. From 2003 to 2006 she was an Associate Professor at St Petersburg Electrotechnical University, Russia. She made few research visits in Czech Technical University (Prague) and Chalmers University (Goteborg, Sweden). In 2004 she has got a 1 year NATO/RS research fellowship for research in microwave near field microscopy at University of Birmingham. Since 2006 she has been with the University of Birmingham, first as a Research Fellow and then, from 2011, a Lecturer in Communication Engineering.

Teaching

Lecturer on MSc courses:

- Introduction into Communications
- Satellite Communication within Satellite, Mobile and Optical Communication module
- RF remote sensing
- Undergraduate course on Electromagnetism (2 year)

Research

She is currently a co-investigator in projects concerned with forward scatter radar for detection and classification of surface targets and RF imaging for road surface monitoring in front of a vehicle.

Other activities

- Invited talks:
  - "Forward Scatter Micro-Sensors for Intruders' Detection and Classification"
  - EuRAD 2011, October 2011, Manchester
  - Forward Scatter Micro-Sensors for Intruders' Detection and Classification
  - COGIS by Thales, Crawley, November 2010
  - "Ultrawideband Signature Analysis for Body-Worn Concealed Weapon Detection"
  - NATO Conference, SET-113, Cranfield University, March 2008.
- Reviewer of IEEE Transactions on Antennas and Propagation and IET Microwaves, Antennas & Propagation since 2008.
- Session chair of IRS, IET and EuRAD radar conferences.
- Member of the Technical committee of RADAR 2012, Glasgow

Publications

Selected publications:

- M.S.Gashinova, M. Gubina, I. Vendik, I. Kolmakov, Y. Kolmakov, “High_Tc superconducting planar filters with pseudo-Chebishev Characteristic”, IEEE Trans. on Microwave Theory and Technique, Vol. 51, No. 3. P. 792-795, 2004.
- M. Gashinova, V. Djigan, L.Y. Daniel, M. Cherniakov, “Adaptive calibration in UWB radar,” Proc. 2008 IEEE Radar Conference, May 26-30, 2008, Rome, Italy, pp.1161-1166.
- Gashinova, M.; Sizov, V.; Zakaria, N.A.; Cherniakov, M., “Signal Detection in Multi-Frequency Forward Scatter Radar” Proc. of European Radar Conference 2010 Conference, Paris, September 30 - October 1, 2010 , EURAD16-5, pp.276-279
- M. Gashinova, V. Sizov, N. A. Rashid, N. Zakaria, M.Cherniakov, "Forward Scatter Micro-Sensors for Intruders’ Detection and Classification" EuRAD 2011, October 2011, Manchester

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