

Professor Mike Cherniakov PhD DSc

Professor, Chair in Aerospace and Electronic Systems

School of Electronic, Electrical and Computer Engineering

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About

Mike Cherniakov is Professor in Aerospace and Electronic Systems, Head of Wireless Communication and Remote Sensing Group and Head of Microwave Integrated System Laboratory (MISL).

Mike has published over 200 research papers in top ranking scientific journals, reviewed conferences as well as the author/editor of four books. All publications are dedicated to various aspects of radar and remote sensing technology. He has received major grants from EPSRC, DSTL, Jaguar Land Rover, SELEX ES, Thales and some other companies.

The MISL is one of the biggest radar research team among the UK universities and well positioned in Europe and beyond. It has about 20 members: academics, resrech fellows, PhD students as well as academic and PhD visitors from all around the world.

Qualifications

Professor in Aerospace and Electronic Systems

- Doctor of Science – 1992
- Honourable Senior Resrech Fellow - 1985
- Doctor of Philosophy – 1980
- Master of Engineering - 1974

Biography

Professor Mike Cherniakov joined the School of EEECE, University of Birmingham in March 2000. He graduated from Moscow Technical University (MTEE) in 1974, with a first-class MEng in Electronics. His academic career continued at MTEE with the awarding of a PhD in 1980, becoming Honorary Senior Research Fellow in 1985, Doctor of Science in 1992 and Professor in 1993. In 1994 he was a visiting Professor at the University of Cambridge (St. John's College) and in 1995 he moved to the University of Queensland, Australia.

Professor Cherniakov's main research areas are radar technology, microwave sensors and networks, and mobile communications. In particular, Professor Cherniakov is one of the leading scientists in bistatic radar remote sensing. During his employment at the University of Birmingham he has secured grants and contracts for more than £3m.

Professor Cherniakov has nearly 40 years teaching experience in world-leading universities where had trained 30 PhD students.

Professor Cherniakov has significant management experience. For 12 years he was the founding head of a Microwave Systems Laboratory with more than 50 full time staff. At the University of Birmingham, he established the Microwave Integrated System Laboratory (MISL) with about 20 people (RF, PhD students and visiting scholars) involved in the laboratory research. Managing MISL requires Mike to draw on his extensive experience and skills in research. Mike is a member of the School Management Committee and a head of Wireless Communication and Remote Sensing Group.

Professor Cherniakov is heavily involved in external academic and research activity. In 2012 he was selected by the IEEE and IET as the Chairman of the international 2012 IEEE Radar Conference. This conference is the primary annual event amongst the worldwide remote sensing community. In addition, he is involved in the organization and related activities of a numbers of conferences. In 2012 the 12-volume Encyclopedia of Aerospace Engineering has been published where Professor Cherniakov is the editor of the Radar volume. Mike is a member of two NATO task groups SET-195 and SET-196. He is the author/co-author/editor of 4 books, 90 papers in high impact factor international journals and 170 international peer reviewed conference papers.

Teaching

Teaching Programmes

- Statistical Signal Processing as a part of Introduction to Communication (MSc and MEng)
- RF Sensors and sensors network (MSc and MEng)

Postgraduate supervision

Currently supervising and co-supervising 10 PhD students.

Research

- Low THz radar systems

- Bi-static Passive SAR
- Forward Scatter Radar and Networks
- Automotive radars and sensors