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About

Alex Bystrov is Research Fellow at Microwave Integrated Systems Laboratory, part of the School of Electronic, Electrical and Computer Engineering.

Alex is author and co-author of more than 20 publications in scientific journals and in proceedings of conferences on radar and signal processing. His research interests were focused on digital signal processing algorithms.

Qualifications

- PhD Engineering 2012
- MSc Radio electronics 1988
- BSc Radio electronics 1982

Biography

A. Bystrov received his BSc (1982) in Radio electronics from Moscow Institute of Electronic Technology (Technical University MIET), Russia, MSc (1988) from the same university.

From 1982-1990 he was with MIET.

Since 1990 he was working as a project engineer in electronic industry in Lithuania.

In 2001-2002 he participated in Electrical Diagrams CAD system development in company ALNA (Lithuania).

Since 2002 Alex as a program manager was responsible for new payment card chip technology implementation (chip & PIN migration, 3D Secure standard etc.) in Lithuanian banking industry.

In 2012 he finished his PhD thesis on algorithms of digital signal processing in radar detectors and range finders.

Alex joined School of Electronic, Electrical and Computer Engineering in 2012.

Research

Research theme

Algorithms of digital signal processing in radar detectors and range finders.

Publications

Selected journal papers:

Bystrov, A.N., Nezlin, D.V. (1987), Microprocessor based radar signal detector, Radiotechnika, 1987-4: 16-18

Nezlin, D.V., Bystrov, A.N. (1987), Characteristics of time discriminator with stroboscopic signal sampling, Radiotechnika, 1987-7: 16-18

Bystrov, A.N., Nezlin, D.V. (1987), Digital radar range finder with averaging of the tracking error, Elektronnaja Technika (Electronics Engineering), Vol. 10, 1987-4: 23-26

Bystrov, A.N., Djigan, V.I. (2010), The influence of signal sampling and quantization on the characteristics of radar range finders, Nonlinear World, 2010-12: 764-777

Bystrov, A.N. (2011), Range finder with stroboscopic signal sampling based on “Multicore” DSP family, Problems of Radio Electronics, Vol.2011-1: 107-114.

Djigan, V.I., Bystrov, A.N. (2011), Cost effective algorithms in radar detectors and range finders, Problems of Radio Electronics, Vol.2011-1: 114-124

Bystrov, A.N., Djigan, V.I. (2011), Influence of radar signal sampling on the characteristics of signal detectors, Bulletin of the Ryazan State Radio Engineering University, 2011-1: 55-58

Bystrov A., Gashinova M. (2013), Analysis of stroboscopic signal sampling for radar target detectors and range finders, IET Radar, Sonar and Navigation, 2013, Vol.7(4): 451-458

He is author and co-author of 14 conference papers.

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