

Contents

Welcome Message from the Editor-in-Chief

Education

1. Enhancing Engineering Education through the University-Industrial Enterprises Strategic Partnership..... *V. Kutuzov, M. Shestopalov, D. Puzankov, S. Shaposhnikov*
2. Quality Assurance of Engineering Degree Programs through Public Professional Accreditation *S. Shaposhnikov*

Communications

3. Application of Harmonic Wavelets to the Analysis and Processing of Oscillating Signals
..... *D. Klionskiy, N. Oreshko, V. Geppener*
4. Phase-Shift Keyed Signals: Extraction of Local Features and Denoising on the Basis of the Continuous Wavelet Transform..... *D. Minenkov, D. Klionskiy*

Industrial Electronics

5. Fuzzy Logic and Clark Transform Application in Frequency Converter Diagnosis
..... *A. Dmitriev, N. Saponenko*
6. The Control System of Asynchronous Generator Excitation With Variable Speed Of Rotation
..... *V. Sheludko, A. Putov, K. Ignatiev, E. Druian*
7. Simulation of Broadband Signals Filter With Adaptive Methods of Control Theory
..... *D. Minenkov, A. Stotckaia., I. Kanatov, S. Romanov*
8. Development of an Automated Installation for Manufacturing Profiled Crystals of Thermoelectric Materials
..... *M. Shestopalov, E. Anushina, A. Putov*
9. Modelling of the Multistage-Multilevel Active Frequency Converter by a Method of the Interconnected Subcircuits
..... *M. Pronin, A. Vorontsov, T. Nahdi M. Kouzin*
10. The Indirect Adaptive Control Systems with Parametrically Customized Models for Control of Nonlinear Non-Stationary Objects
..... *V. Sheludko, V. Putov, K. Nguyen, A. Stotckaia*

Computer Science and Information Technologies

11. Vulnerabilities in Modern Web Services
..... *M. Vink*
12. Clustering and Classification Tasks Adaptation to Cloud Environment
..... *I. Golubev, A. Smirnov*
13. Poster Presentations Management System
..... *P. Smirnov, D. Mouromtsev*
14. Mind Map of Software Company Knowledge
..... *N. Melnikov*

INFORMATION FOR AUTHORS

The IEEE Russia North West Section Proceedings is published twice a year with a distribution of 500 copies. Subscribers include engineers, researchers, engineering educators, both in university and industry. Manuscripts published generally are within all areas of Electrical and Electronic Engineering, Computer Science and Information Technology, Manufacturing and Quality Management as well as educational programs and materials in these fields, the history of technology, the impact of evolving research on education, and the exchange of issues pertinent to engineering education.

A. Manuscript Submission

Manuscripts are submitted through Chairs of the Section Chapters. Submission of material will be construed as indicating that it has not been copyrighted, published, submitted, or presented elsewhere, unless explicit notice to the contrary is given.

B. Manuscript Format

In preparing manuscripts for review, please follow the template and instructions available at http://webinabox.vtools.ieee.org/wibp_home/index/R80087