

**WYKAZ DOROBKU NAUKOWEGO PRACOWNIKÓW KATEDRY INŻYNIERII MIKROFALOWEJ I
ANTENOWEJ W 2014r.**

**LIST OF SCIENTIFIC RESEARCH OF MICROCAL AND ANTENNA ENGINEERING DEPARTMENT
EMPLOYEES IN 2014**

**Artykuły opublikowane w czasopismach z listy filadelfijskiej (Publications In Journals from Institute
of Scientific Information Master Journal List):**

1. Stefański T.: Application of the discrete Green's function-based antenna simulations for excitation of the total-field/scattered-field interface in the FDTD method// MICROWAVE AND OPTICAL TECHNOLOGY LETTERS. -Vol. 56, nr. 8 (2014), s.1949-1953 JCR 131512
2. Stefański T., Orłowski S., Reichel B.: Parallel Implementation of the Discrete Green's Function Formulation of the FDTD Method on a Multicore Central Processing Unit// RADIOENGINEERING. -Vol. 23, nr. 4 (2014), s.979-986 JCR 131176
3. Lamęcki A., Balewski Ł., Mrozowski M.: An Efficient Framework For Fast Computer Aided Design of Microwave Circuits Based on the Higher-Order 3D Finite-Element Method// RADIOENGINEERING. -Vol. 23, nr. 4 (2014), s.970-978 JCR 130612
4. Lamęcki A.: A Systematic Search for New Coupling Schemes of Cross-Coupled Resonator Bandpass Filters// RADIOENGINEERING. -Vol. 23, nr. 3 (2014), s.907-913 JCR 130611
5. Dziekoński A., Sypek P., Lamęcki A., Mrozowski M.: GPU-Accelerated Finite-Element Matrix Generation for Lossless, Lossy, and Tensor Media [EM Programmer's Notebook]// IEEE ANTENNAS AND PROPAGATION MAGAZINE. -Vol. 56, nr. 5 (2014), s.186-197 JCR 130609
6. Kozieł S., Bekasiewicz A., Couckuyt I., Dhaene T.: Efficient Multi-Objective Simulation-Driven Antenna Design Using Co-Kriging// IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION. -Vol. 62, nr. 11 (2014), s.5900-5905 JCR 129076
7. Dziomba S., Bekasiewicz A., Prahla A., Baczek T., Kowalski P.: Improvement of derivatized amino acid detection sensitivity in micellar electrokinetic capillary chromatography by means of acid-induced pH-mediated stacking technique// ANALYTICAL AND BIOANALYTICAL CHEMISTRY. -Vol. 406, nr. 26 (2014), s.6713-6721 JCR 129074
8. Szydłowski Ł., Leszczyńska N., Mrozowski M.: Dimensional Synthesis of Coupled-Resonator Pseudoelliptic Microwave Bandpass Filters with Constant and Dispersive Couplings// IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES. -Vol. 62, iss. 8 (2014), s.1634-1646 JCR 128113
9. Leszczyńska N., Szydłowski Ł., Mrozowski M.: Zero-Pole Space Mapping for CAD of Filters// IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS. -Vol. 24, iss. 9 (2014), s.581-583 JCR 128112
10. Kozieł S., Ogurtsov S., Zieniutycz W., Sorokosz Ł.: Simulation-Driven Design of Microstrip Antenna Subarrays// IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION. -Vol. 62, iss. 7 (2014), s.1-8 JCR 128022
11. Kozieł S., Bekasiewicz A., Kurgan P.: Rapid EM-Driven Design of Compact RF Circuits By Means of Nested Space Mapping// IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS. -Vol. 24, iss. 6 (2014), s.364-366 JCR 127985

12. Lech R., Marynowski W., Kusiek A., Mazur J.: An Analysis of Probe-Fed Rectangular Patch Antennas With Multilayer and Multipatch Configurations on Cylindrical Surfaces// IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION. -Vol. 62, iss. 6 (2014), s.2935-2945 JCR 127927
13. Stefański T.: Analytical Expression for the Time-Domain Discrete Green's Function of a Plane Wave Propagating in the 2-D FDTD Grid// IEEE Antennas and Wireless Propagation Letters. -Vol. 13, (2014), s.887-890 JCR 127924
14. Koziel S., Ogurtsov S., Zieniutycz W., Sorokosz Ł.: Expedited design of microstrip antenna subarrays using surrogate-based optimization// IEEE Antennas and Wireless Propagation Letters. -Vol. 13, (2014), s.635-638 JCR 127850
15. Koziel S., Bekasiewicz A., Zieniutycz W.: Expedited EM-driven multi-objective antenna design in highly-dimensional parameter spaces// IEEE Antennas and Wireless Propagation Letters. -Vol. 13, (2014), s.631-634 JCR 127849
16. Szydłowski Ł., Mrozowski M.: A Self-Equalized Waveguide Filter With Frequency-Dependent (Resonant) Couplings// IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS. -, iss. 99 (2014), s.1-3 JCR 127702
17. Lech R., Marynowski W., Kusiek A., Mazur J.: Coplanar Waveguide-Fed Broadband Microwave Devices with (or without) a Thin Dielectric Substrate for Use in Flexible Electronic Systems// International Journal of Antennas and Propagation. -Vol. 2014, nr. Article ID 379379 (2014), s.1-9 JCR 127597
18. Kurgan P., Bekasiewicz A.: A robust design of a numerically demanding compact rat-race coupler// MICROWAVE AND OPTICAL TECHNOLOGY LETTERS. -Vol. 56, nr. 5 (2014), s.1259-1263 JCR 127524
19. Bekasiewicz A., Kurgan P.: A compact microstrip rat-race coupler constituted by nonuniform transmission lines// MICROWAVE AND OPTICAL TECHNOLOGY LETTERS. -Vol. 56, nr. 4 (2014), s.970-974 JCR 127523
20. Szydłowski Ł., Leszczynska N., Mrozowski M.: A Linear Phase Filter in Quadruplet Topology With Frequency-Dependent Couplings// IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS. -Vol. 24, iss. 1 (2014), s.32-34 JCR 126385

Artykuły w pozostałych czasopismach (Other publications):

1. Mazur M., Kusiek A., Marynowski W.: Możliwości weryfikacji parametrów elektrycznych planarnych szyków antenowych stosowanych w radarach przy wykorzystaniu skanera do pomiaru charakterystyk antenowych w polu bliskim// Elektronika : konstrukcje, technologie, zastosowania. -Vol. 1., (2014), s.61-66 AR 131513
2. Bekasiewicz A., Koziel S., Leifsson L.: Low-Cost EM-Simulation-Driven Multi-Objective Optimization of Antennas// Procedia Computer Science. -Vol. 29., (2014), s.790-799 AR 128191
3. Bekasiewicz A., Koziel S., Kurgan P., Leifsson L.: Nested Space Mapping Technology for Expedite EM-driven Design of Compact RF/microwave Components// Procedia Computer Science. -Vol. 29., (2014), s.769-778 AR 128190
4. Leifsson L., Koziel S., Bekasiewicz A.: Fast Low-fidelity Wing Aerodynamics Model for Surrogate-Based Shape Optimization// Procedia Computer Science. -Vol. 29., (2014), s.811-820 AR 128188

Doniesienia konferencyjne (Conference papers):

1. Zieniutycz W., Sorokosz Ł.: Projektowanie symetryzatorów planarnych dla pasma UWB z wykorzystaniem sztucznych sieci neuronowych// 7. Konferencja Urządzenia i Systemy Radioelektroniczne UISR'2014/ ed. A. Witczak, R. Bobrowicz Polska: , 2014, s.1-12 ZR 130539
2. Bekasiewicz A., Kozieł S., Leifsson L.: Computationally Efficient Multi-Objective Optimization of and Experimental Validation of Yagi-Uda Antenna// 4th International Conference on Simulation and Modeling Methodologies, Technologies and Applications/ Vienna, Austria: , 2014, s.798-805 ZR 129093
3. Hermannsson E., Leifsson L., Kozieł S., Kurgan P., Bekasiewicz A.: Trawl-Door Shape Optimization with 3D CFD Models and Local Surrogates// 4th International Conference on Simulation and Modeling Methodologies, Technologies and Applications/ Vienna, Austria: , 2014, s.775-784 ZR 129092
4. Kozieł S., Bekasiewicz A., Kurgan P., Leifsson L.: Low-cost EM-Simulation-based Multi-objective Design Optimization of Miniaturized Microwave Structures// 4th International Conference on Simulation and Modeling Methodologies, Technologies and Applications/ Vienna, Austria: , 2014, s.767-774 ZR 129088
5. Bekasiewicz A., Kozieł S., Zieniutycz W.: Design space reduction and variable-fidelity EM simulations for feasible Pareto optimization of antennas// The 30th International Review of Progress in Applied Computational Electromagnetics/ : , 2014, s.1-6 ZR 127893
6. Konrad Górski, Mateusz Groth, Łukasz Kulas, A multi-building WiFi-based indoor positioning system, 20th International Conference on Microwaves, Radar, and Wireless Communication (MIKON), K 131312
7. Wojciech Marynowski, Adam Kusiek, Rafał Lech, The investigation of the performance of crossovers placed on curved surfaces, The 35th Progress In Electromagnetics Research Symposium, K 129735
8. Wojciech Marynowski, Adam Kusiek, Rafał Lech, Dual polarization circular slot antenna using microstrip and CPW feeding structures, The 35th Progress In Electromagnetics Research Symposium, K 129734
9. Rafał Lech, Adam Kusiek, Wojciech Marynowski, Radiation from microstrip patch antennas located on elliptical surfaces, The 35th Progress In Electromagnetics Research Symposium, K 129733
10. Adam Kusiek, Rafał Lech, Wojciech Marynowski, Rigorous analysis of multilayered elliptical striplines, The 35th Progress In Electromagnetics Research Symposium, K 129732
11. Adam Kusiek, Wojciech Marynowski, Jerzy Mazur, Nonuniform cylindrical ferrite coupled line junction, The 35th Progress In Electromagnetics Research Symposium, K 129731
12. Łukasz Szydłowski, Michał Mrozowski, Pseudoelliptic microwave bandpass filters with three transmission zeros in quadruplet topology with frequency-dependent couplings, URSI General Assembly and Scientific Symposium, K 128652
13. Szymon Dziomba, Ilona Oledzka, Tomasz Baczek, Adrian Bekasiewicz, Adam Prahł, Piotr Kowalski, Pseudo-isotachophoresis vs. pH-mediated stacking using hydrodynamic sample injection method in micellar electrokinetic chromatography, International Symposium on Microscale Bioseparations, K 127894
14. Bartosz Reichel, Tomasz Stefański, Hybrid Technique Combining the Backward Ray Tracing and the FDTD Method, The 8th European Conference on Antennas and Propagation, K 127853