

**WYKAZ DOROBKU NAUKOWEGO PRACOWNIKÓW KATEDRY INŻYNIERII MIKROFALOWEJ I
ANTENOWEJ W 2015r.**

**LIST OF SCIENTIFIC RESEARCH OF MICROCAL AND ANTENNA ENGINEERING DEPARTMENT
EMPLOYEES IN 2015**

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

1. Bekasiewicz A., Koziel S.: Efficient Multi-Fidelity Design Optimization of Microwave Filters Using Adjoint Sensitivity// INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING. -Vol. 25., iss. 2 (2015), s.178-183 JCR 129073
2. Fotyga G., Rewieński M., Mrozowski M.: Wideband Macromodels in Finite Element Method// IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS. -Vol. 25., iss. 12 (2015), s.766-768 JCR 134843
3. Jędrzejewski A., Szydłowski Ł., Mrozowski M.: Miniaturized bandpass substrate integrated waveguide filter with frequency-dependent coupling realized using asymmetric GCPW discontinuity// MICROWAVE AND OPTICAL TECHNOLOGY LETTERS. -Vol. 57., iss. 8 (2015), s.1818-1821 JCR 132397
4. Koziel S., Ogurtsov S., Bekasiewicz A., Zieniutycz W.: Design of a Planar UWB Dipole Antenna with an Integrated Balun Using Surrogate-Based Optimization// IEEE Antennas and Wireless Propagation Letters. -Vol. 14., (2015), s.366-369 JCR 130120
5. Kurgan P., Bekasiewicz A., Kitliński M.: On the low-cost design of abbreviated multisection planar matching transformer// MICROWAVE AND OPTICAL TECHNOLOGY LETTERS. -Vol. 57., iss. 3 (2015), s.521-525 JCR 135290
6. Kusiek A., Lech R., Marynowski W., Mazur J.: An Analysis of Multistrip Line Configuration on Elliptical Cylinder// IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES. -Vol. 63., iss. 6 (2015), s.1800-1808 JCR 132404
7. Lech R., Marynowski W., Kusiek A.: An Analysis of Elliptical-Rectangular Multipatch Structure on Dielectric-Coated Confocal and Nonconfocal Elliptic Cylinders// IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION. -Vol. 63., iss. 1 (2015), s.97-105 JCR 130653
8. Mironowicz P., Dziekoński A., Mrozowski M.: A Task-Scheduling Approach for Efficient Sparse Symmetric Matrix-Vector Multiplication on a GPU// SIAM JOURNAL ON SCIENTIFIC COMPUTING. -Vol. 37., nr. 6 (2015), s.643-666 JCR 134270
9. Rewieński M., Fotyga G., Lamęcki A., Mrozowski M.: Automated Reduced Model Order Selection// IEEE Antennas and Wireless Propagation Letters. -Vol. 14., (2015), s.382-385 JCR 130119
10. Rewieński M., Lamęcki A., Mrozowski M.: A Goal-Oriented Error Estimator for Reduced Basis Method Modeling of Microwave Devices// IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS. -Vol. 25., iss. 4 (2015), s.208-210 JCR 132392
11. Rewieński M., Lamęcki A., Mrozowski M.: Model Order Reduction for Problems With Dispersive Surface Boundary Conditions// IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS. -Vol. 25., iss. 9 (2015), s.561-563 JCR 134842
12. Rzymowski M., Woźnica P., Kulas Ł.: Single-Anchor Indoor Localization Using ESPAR Antenna. PREPRINT// IEEE Antennas and Wireless Propagation Letters. -Vol. PP., iss. 99 (2015), s.1-4 JCR 134539

13. Stefański T.: A New Expression for the 3-D Dyadic FDTD-Compatible Green's Function Based on Multidimensional Z-Transform// IEEE Antennas and Wireless Propagation Letters. -Vol. 14., (2015), s.1002-1005 JCR 132156

14. P.Kowalczyk : Complex Root Finding Algorithm Based on Delaunay Triangulation// ACM TRANSACTIONS ON MATHEMATICAL SOFTWARE. -Vol. 41., iss. 3 (2015), s.1-13 JCR 132372

15. Kusiek A.: Hybrid technique for the analysis of circular waveguide junctions loaded with ferrite posts// IET Microwaves Antennas & Propagation. -Vol. 9., iss. 8 (2015), s.781-787 JCR 132405

Artykuły w pozostałych czasopismach (Other publications):

1. Kowalczyk P.: EFEKTYWNA TECHNIKA POSZUKIWANIA MIEJSC ZEROWYCH FUNKCJI ZESPOLONYCH WYSTĘPUJĄCYCH W ZAGADNIENIACH PROPAGACYJNYCH// Przegląd Telekomunikacyjny + Wiadomości Telekomunikacyjne. -, nr. 4 (2015), s.532-535 AR 132170

2. Lech R., Kusiek A.: CZĘSTOTLIWOŚCI REZONANSOWE W OTWARTYCH STRUKTURACH MIKROPASKOWYCH UMIESZCZONYCH NA POWIERZCHNIACH ZAKRZYWIONYCH// Przegląd Telekomunikacyjny + Wiadomości Telekomunikacyjne. -, nr. 4 (2015), s.528-531 AR 132066

Monografie naukowe o zasięgu międzynarodowym (Monographs):

1. Kowalczyk P., Lech R., Zieniutycz W.: Podstawy elektromagnetyzmu w zadaniach . Gdańsk: Wydawnictwo Politechniki Gdańskiej, 2015.126 s. ISBN 978-83-7348-628-7 MK133937

2. Kowalczyk P., Lech R., Zieniutycz W.: Pola i fale elektromagnetyczne w zadaniach. Gdańsk: Wydawnictwo Politechniki Gdańskiej, 2015.165 s. ISBN 978-83-7348-626-3 MK133936

Rozdziały w monografiach naukowych o zasięgu międzynarodowym (Chapters in monographs):

1. Kusiek A., Marynowski W., Lech R., Mazur J.: Nonreciprocal Devices Utilizing Longitudinally Magnetized Ferrite Coupled Lines// Advanced Electromagnetic Waves/ ed. Saad Osman Bashir : InTech, 2015, s.117-145 MCM 134737

Doniesienia konferencyjne (Conference papers):

1. Dziubak T., Wiktor M., Orłowski S., Stefański T.: Acceleration of the DGF-FDTD method on GPU using the CUDA technology, W: The 2015 9th European Conference on Antennas and Propagation (EuCAP), 2015, IEEE,.IND 135035

2. Stefański T.: FDTD-Compatible Green's function based on scalar discrete Green's function and multidimensional Z-transform, W: The 2015 9th European Conference on Antennas and Propagation (EuCAP), 2015, IEEE,.IND 135032

3. Stefański T., Orłowski S., Reichel B.: Analysis of radiation and scattering problems with the use of hybrid techniques based on the discrete Green's function formulation of the FDTD method, W: 2015 International Conference on Electromagnetics in Advanced Applications (ICEAA), 2015, IEEE,. IND 135043

4. Tarkowski, M.; Woznica, P.; Kulas, L., "Efficient algorithm for blinking LED detection dedicated to embedded systems equipped with high performance cameras," in EUROCON 2015 - International Conference on Computer as a Tool (EUROCON), IEEE , vol., no., pp.1-4, 8-11 Sept. 2015

doi: 10.1109/EUROCON.2015.7313723pagation, K 127853

5. Sławomir Koziół, Adrian Bekasiewicz Low-Cost Multi-Objective Antenna Optimization with Design Space Reduction and Co-Kriging Surrogates, International Review of Progress in Applied Computational Electromagnetics K 136055
6. Grzegorz Fotyga, Jakub Grzybek, Wojciech Dembiński, Paweł Bielski, Krzysztof Nyka, Meshing Technique for Efficient Macromodel Cloning in FEM Analysis of 3D Structures, PIERS Progress In Electromagnetics Research Symposium, K 133818
7. Natalia Leszczynska, Adam Lamęcki, Michał Mrozowski, Optimization of General Microwave Passive Circuits Based on Zero-pole Technique, Progress In Electromagnetics Research Symposium, K 133785
8. Wojciech Marynowski, Adam Kusiek, Rafał Lech, Jerzy Mazur, Wave Properties of the Rectangular Waveguide Loaded with Thin Pseudochiral Medium Layer, The 36th Progress In Electromagnetics Research Symposium : Abstracts, K 133669
9. Adam Kusiek, Wojciech Marynowski, Jerzy Mazur, Investigations of Elliptical Ferrite Coupled Line Junction, The 36th Progress In Electromagnetics Research Symposium : Abstracts, K 133666
10. Rafał Lech, Adam Kusiek, Wojciech Marynowski, Jerzy Mazur, Resonance in Rectangular Microstrip Structure Loaded with a Thin Omega Medium Layer in the Substrate, The 36th Progress In Electromagnetics Research Symposium : Abstracts, K 133660