

Name of the advisor: Michał Mrozowski

Academic title: Professor Ph.D., D.SC., Eng.

Orcid ID number: <http://orcid.org/0000-0002-1110-8717>

Department of Microwave and Antenna Engineering

Faculty of Electronics, Telecommunications and Informatics

Gdańsk University of Technology

Phone: +48 58 347 25 49

E-mail: michal.mrozowski@eti.pg.edu.pl

Personal web page: <http://pg.edu.pl/mim>

Disciplineⁱ control, electronic and electrical engineering; technical informatics and telecommunication

Bibliometric indicators

1.	Number of journal publications in WoS/ Scopus	116/124
2.	Citations (WoS/Scopus) excluding self-citations	1191/1529
3.	Hirsch index (WoS/Scopus)	21/23
4.	Hirsch index in Google Scholar	29
5.	Citations in Google Scholar	2958

1. The number of PhD students who have graduated under your supervision: 17

2. The number of PhD students currently supervised: 2

3. Are you currently accepting new PhD students:

- a. Polish Yes
- b. Foreign Yes

Research interests or topics offered for PhD research (no more than 2000 characters)ⁱⁱ

Basic research: guided electromagnetic waves, microwave engineering as well as computational electromagnetics, photonics, and parallel/GPU computing, numerical techniques for solving linear and nonlinear eigenvalue problems, fast techniques in the finite-element (FEM) and finite-difference method (both in time and frequency domain), model order reduction, parametrized model order reduction for FEM, rational models for passive microwave circuits, analysis of microwave resonators.

Applied research: microwave filter design, microwave filter synthesis, surrogate model construction, full-wave optimization, and computer-aided design (implemented in CAD software tools).

PhD Advisor form

Funding or special equipment needed to carry out a PhD project ⁱⁱⁱ:

1. Is funding available for experimental work: Yes
2. Is the equipment needed to complete a PhD project available in your lab/department: Yes

Most recent publications in WoS/SCOPUS journal – no more than 5 published after 1.01.2017

No	Authors/title/journal	Journal IF/Quartile – for WoS and SNIP/ CiteScore for SCOPUS	Publication year
1.	AK Jha, N Delmonte, A Lamecki, M Mrozowski, M Bozzi Design of Microwave-Based Angular Displacement Sensor, IEEE Microwave and Wireless Components Letters	2.23/Q2	2019
2.	V de la Rubia, M Mrozowski A Compact Basis for Reliable Fast Frequency Sweep via the Reduced-Basis Method, IEEE Transactions on Microwave Theory and Techniques	3.6/Q1	2018
3.	M Czarniewska, G Fotyga, A Lamecki, M Mrozowski Parametrized Local Reduced-Order Models With Compressed Projection Basis for Fast Parameter-Dependent Finite-Element Analysis, IEEE Transactions on Microwave Theory and Techniques	3.6/Q1	2018
4.	A Dziekonski, M Mrozowski Block conjugate-gradient method with multilevel preconditioning and GPU acceleration for FEM problems in electromagnetics, IEEE Antennas and Wireless Propagation Letters	3.4/Q1	2018
5.	A Dziekonski, G Fotyga, M Mrozowski Preconditioners With Low Memory Requirements for Higher-Order Finite-Element Method Applied to Solving Maxwell's Equations on Multicore CPUs and GPUs, IEEE Access	4.19/Q1	2018

Most recent externally funded projects you were involved in – no more than 3

No	Project title, the name of the Principal Investigator (PI) and the institution the project was carried out	Year awarded	Role in the project
1.	EDISON: Electromagnetic Design of flexible Sensors, PI: M.Mrozowski, FNP	2016	PI
2.	Krylov subspace techniques for solving medium-scale computational electromagnetics problems using the higher-order finite-element method on memory-constrained multiple-GPU systems, PI: M.Mrozowski, NCN	2015	PI

PhD Advisor form

3.	Multilevel-accelerated design-by-optimization of linear time-invariant electromagnetic systems based on physical principles, higher-order finite-element method, reduced-order and reduced-basis methods. M.Mrozowski, NCN	2013	PI
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Additional relevant information – (no more than 1600 characters)^{iv}

As many as 15 out of 17 of PhD dissertations which I supervised were found by the reviewers to be outstanding (summa cum laude) and 4 PhDs, all in computational electromagnetics, received the Prime Minister of Poland’s awards with a further 7 receiving other awards. Many of my PhD students have received both international fellowships (twice from the IEEE) and national fellowships, including 10 highly competitive Young Scientist Fellowships awarded by the Foundation for Polish Science (FNP). Several MSc students have received awards for the best MSc thesis on microwaves, radiolocation, and antenna technologies organized by the Polish chapter of IEEE MTT/AP.

I was a Principal investigator for more than 15 Polish research grants, 5 projects with various European Union programs, and 4 grants funded by US government agencies or private US companies

Several computational algorithms and computer-aided design techniques, developed in my group in various past research projects, have been implemented in commercial software products.

I am a Fellow of the IEEE, the corresponding member of the Polish Academy of Sciences, and an elected member of two IEEE Microwave Theory and Techniques Society Technical Committees—namely the MTT-1 Technical Committee (CAD) and the MTT-15 Technical Committee (Field Theory).

ⁱ You may select up to two disciplines out of 12 disciplines represented in the Doctoral School

ⁱⁱ Observe the limit of not more than 300 words

ⁱⁱⁱ Leave only one answer

^{iv} Add any other relevant information eg. awards for PHD students whom you supervised (no more than 200 words)