



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Michał Przewoźniczek
Grade / Title:	PhD, DSc
Scientific discipline	informatyka techniczna i telekomunikacja / information and communication technology
Faculty:	W4 Wydział Informatyki i Telekomunikacji / Faculty of Information and Communication Technology
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Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	http://przewozniczek.eu https://scholar.google.com/citations? user=bmjw3Z0AAAAJ&hl=pl https://orcid.org/0000-0003-2446-6473

2. Publication record

Up to 10 most important papers published over the period of previous 10 years.

No.	Description (authors, publication title, journal / conference, DOI)	Publication year
1.	R. Tinós, M. W. Przewoźniczek, D. Whitley, and F. Chicano, Iterated Local Search with Linkage Learning, ACM Transactions on Evolutionary Learning and Optimization, Vol. 4, Issue 2, pp. 1-29.	2024
2.	M. M. Komarnicki, M. W. Przewoźniczek, H. Kwasnicka and K. Walkowiak, Incremental Recursive Ranking Grouping for Large Scale Global Optimization , <i>IEEE Transactions on Evolutionary Computation</i> , vol. 27, pp. 1498-1513.	2023
3.	M. M. Komarnicki, M. W. Przewoźniczek, R. Tinós, and X. Li, Overlapping Cooperative Co-Evolution for Overlapping Large-Scale Global Optimization Problems , In <i>Proceedings of the Genetic and Evolutionary Computation Conference (GECCO '24)</i> , pp. 665-673.	2024
4.	L. Tulczyjew, M. W. Przewoźniczek, R. Tinós, A. M. Wijata, and J. Nalepa, CANNIBAL Unveils the Hidden Gems: Hyperspectral Band Selection via Clustering of Weighted Variable Interaction Graphs , In <i>Proceedings of the Genetic and Evolutionary Computation Conference Companion (GECCO '23)</i> , pp. 412-421.	2024
5.	M. W. Przewoźniczek, R. Tinós, M. M. Komarnicki, First Improvement Hill Climber with Linkage Learning -- on Introducing Dark Gray-Box Optimization into Statistical	2023



	Linkage Learning Genetic Algorithms , In <i>Proceedings of the Genetic and Evolutionary Computation Conference (GECCO '23)</i> , pp. 946-954, ACM.	
6.	R. Tinós, M. W. Przewozniczek, D. Whitley, F. Chicano, Genetic Algorithm with Linkage Learning , In <i>Proceedings of the Genetic and Evolutionary Computation Conference (GECCO '23)</i> , pp. 981-989, ACM.	2023
7.	M.W. Przewozniczek, M. M. Komarnicki, Empirical linkage learning , <i>IEEE Transactions on Evolutionary Computation</i> , vol. 24, no. 6, pp. 1097-1111.	2020
8.	M. W. Przewozniczek, R. Datta, K. Walkowiak, M. Komarnicki, Splitting the fitness and penalty factor for temporal diversity increase in practical problem solving , <i>Expert Systems With Applications</i> , vol. 145, pp.1-11.	2020
9.	M.W. Przewozniczek, R. Goścień, P. Lechowicz, K. Walkowiak, Metaheuristic Algorithms with Solution Encoding Mixing for Effective Optimization of SDM Optical Networks , <i>Engineering Applications of Artificial Intelligence</i> , vol. 95.	2020
10	M. W. Przewozniczek, M. M. Komarnicki, The influence of fitness caching on modern evolutionary methods and fair computation load measurement , <i>Proceedings of the Genetic and Evolutionary Computation Conference Companion, (GECCO 18)</i> , pp. 241-242.	2018

3. Projects and grants

List of the most important 5 projects/grants with basic description including: title, source(s) of funding, name of the call, role in the project (e.g., principal investigator).

1	Role in the project (e.g., principal investigator, work package leader, etc.)	<i>Principal Investigator</i>
	Project title	<i>Dark Gray Box Optimization - developing of the new class of highly effective optimizers</i>
	Sources of funding	Polish National Science Center (NCN)
	Name of the call	OPUS-10
	Implementation period	2022-2026
2	Role in the project (e.g., principal investigator, work package leader, etc.)	<i>Principal Investigator</i>
	Project title	<i>Development of evolutionary methods dedicated to solving multi- and many-objective problems with the use of linkage learning techniques</i>
	Sources of funding	Polish National Science Center (NCN)
	Name of the call	SONATA-BIS-10
	Implementation period	2021-2026
3	Role in the project (e.g., principal	<i>Principal Investigator</i>



	investigator, work package leader, etc.)	
	Project title	<i>Developing new strategies of dynamic controlling the number of evolving subpopulations in co-evolutionary optimization</i>
	Sources of funding	Polish National Science Center (NCN)
	Name of the call	SONATA-10
	Implementation period	2015-2020
4	Role in the project (e.g., principal investigator, work package leader, etc.)	<i>Research Associate</i>
	Project title	<i>Cloud-based Situational Analysis for Factories providing Real-time Reconfiguration Services</i>
	Sources of funding	European Union
	Name of the call	The SAFIRE program
	Implementation period	2016-2019
5	Role in the project (e.g., principal investigator, work package leader, etc.)	<i>Researcher</i>
	Project title	Advanced methods for optimization of optical networks with spatial flexibility
	Sources of funding	Polish National Science Center (NCN)
	Name of the call	OPUS 10
	Implementation period	2016-2019

4. International experience

Brief description of international cooperation and experience (e.g., research stays, cooperation with foreign entities, coordination or participation in international projects or programmes, keynote speeches and presentations delivered at renowned international conferences, visiting professor stays, invited lectures).

No	Description
1.	<i>Utrecht University (Dirk Thierens) & Centrum Wiskunde & Informatica (Peter Bosman): Genetic Algorithms development, problem structure decomposition</i>
2.	<i>University of Sao Paulo (Renato Tinos): Genetic Algorithms development, Gray-box optimization</i>
3.	<i>University of York (Leandro Soares Indrusiak): Multi-objective optimization, Evolutionary Computation in real-life problems solving</i>



5. Experience in teaching doctoral students

Brief description of experience in teaching doctoral students (e.g., courses in doctoral schools and PhD studies, summer/winter schools for doctoral students, tutorials, trainings, etc.).

See <http://www.przewozniczek.eu/> for more details.

6. List of supervised doctoral students

List of all supervised doctoral students that defended the PhD including: name of the student, dissertation title, year of awarding PhD.

See <http://www.przewozniczek.eu/> for more details.

7. Prizes and awards

The most important national and international prizes and awards related to research, development and teaching activities.

See <http://www.przewozniczek.eu/> for more details.

8. Other significant achievements

Information on other significant achievements related to research, development and teaching activities.

See <http://www.przewozniczek.eu/> for more details.