Dr hab. inż. Wojciech Krzysztofik wojciech.krzysztofik@pwr.edu.pl

- Numerical methods for solving the boundary problems in closed or open systems (MoM, FDTD, TLM, Methods of Modes, intelligent computing techniques -genetic algorithms, neural networks)
- Study of diffraction phenomena, mutual coupling in the set man-EM radiating device, EM-field mapping/microwave holography
- Wireless communication systems (BAN, on-body, in-body, off-body, short distance, PAN, Wi-Fi, RFID, EM Waves-propagation, etc.)

Dr hab inż. Adam Polak adam.polak@pwr.edu.pl

- Analysis of respiratory impedance data measured by forced oscillations during spontaneous breathing
- A method for the automatic selection of estimated parameters in indirect measurements

Dr hab inż. Olgierd Unold olgierd.unold@pwr.edu.pl

- Grammatical Inference: Techniques and Theory; Learning (stochastic/weighted) context-free grammars; Applications of Grammatical Inference (in bioinformatics, time series, ..)
- New models of Learning Classifiers Systems
- Machine learning in software defect prediction

Prof. dr hab inż. Krzysztof Walkowiak krzysztof.walkowiak@pwr.wroc.pl

- Optimization of communication networks (optical networks, cloud computing, content distribution, 5G)
- Network and system resilience – methods and optimization
- Soft-optimization techniques

Prof. dr hab inż. Michał Woźniak michal.wozniak@pwr.edu.pl

- Designing nonstationary data stream classification methods
- Proposing preprocessing methods for multiclass imbalance data
- Employing ensemble learning to solve compound pattern classification and clustering tasks

dr hab inż. Rafał Zdunek Rafal.Zdunek@pwr.edu.pl

- Machine learning: nonnegative matrix factorization, multi-way array decompositions,
- Data mining and big data,
- Digital signal and image processing