

Data of Supervisors of the Doctoral School at WPUT

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Scientific Discipline(s):	Field of Engineering and Technical Sciences Discipline: Information and Communication Technology
Research Areas (max. 2000 characters):	<p>Computer Vision and Image Processing:</p> <p>Research focuses on the analysis and interpretation of digital images in the context of developing algorithms that enable computers to "see" and understand image content. It has applications in various fields, including control systems (touchless interfaces), medicine (medical image analysis), industry (quality control, robot control), and automotive (autonomous vehicles, driver behavior analysis, video surveillance). The methods used employ supervised and unsupervised classification, machine learning, and deep learning, which allow for learning from data without the need to build formal models for complex data analysis.</p> <p>Geoinformation Data Processing and Analysis:</p> <p>The research conducted includes the analysis and processing of spatial data, such as multispectral satellite imagery and data from Geographic Information Systems (GIS). The focus is on algorithms that enable environmental change analysis, disaster monitoring, spatial planning, and various other applications.</p>
Keywords (max. 10):	Computer vision, image processing, machine learning, deep learning, data classification, image recognition, geoinformation data processing.