## Data of Supervisors of the Doctoral School at WPUT

Supervisor:	
(academic titles and degrees,	Prof. dr hab. inż. Aleksandr Cariow
name and surname)	
Units:	KAKiT
E-mail:	atariov@zut.edu.pl
Contact:	449-55-73
ORCID	https://orcid.org/0000-0002-4513-4593
Scientific Discipline(s):	Information and Communication Technology
Research Areas	1. Improving digital signal processing techniques in deep neural
(max. 2000 characters):	networks using real, complex and hypercomplex number
	systems.
	2. Implementation of algorithms and processor unit structures
	dedicated to digital signal processing in embedded systems on
	FPGA, ASIC, SOC, NOC, GPU platforms.
	3. Design of processor systems oriented to image processing and
	recognition in mobile battery-powered Tiny MI neural
	networks (also called Edge AI)
Keywords (max. 10):	Digital signal processing, digital image processing, pattern
	recognition, matrix computations, fast algorithms, Kronecker
	product algebra, hypercomplex numbers, Edge AI.