PhD Advisor form

Name of the advisor: Zdzisław Kowalczuk

Academic title: Prof. DSc PhD MScEE, SM IEEE, Full Prof. (prof. dr hab. inż.)

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Discipline[i] automatics, electronics and electrotechnics

Bibliometric indicators and

1.	Number of journal publications in WoS/ Scopus	90/115
2.	Citations (WoS/Scopus) excluding self-citations	308/508
3.	Hirsch index (WoS/Scopus)	7/10
4.	Hirsch index in Google Scholar	17
5.	Citarions in Google Scholar	2376

1. The number of PhD students who have graduated under your supervision: 8
2. The number of PhD students currently supervised: 4 (including 3 working on their final report)
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]

Automatic Control and Robotics, Control and Decision-Making Systems: (I) Basic design issues: ¦ modeling and identification of dynamical processes ¦ system design for measurement, identification and control ¦ adaptive systems (identification, estimation, control, decisionmaking) ¦ diagnostics of processes and control systems ¦ autonomous robotics and decision-making ¦ simulation of systems and environments ¦ artificial intelligence and cognitive psychology (genetic and evolutionary algorithms, fuzzy systems, agent and autonomous systems, mobile and cognitive robotics). (II) Methodology and tools: ¦ methods (mathematics, numerical algorithms, artificial intelligence) ¦ algorithms (direct, predictive, optimal, robust, adaptive) ¦ optimization and approximation of systems and signals ¦ digital signal processing ¦ implementation of continuous-time and discrete-time systems ¦ computer systems for DSP, simulation, control, and supervision.

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

1. Is funding available for experimental work: No
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 SOPUS	Publication year
1.	Z. Kowalczuk, J. Wszo³ek, „Analysis of economical lighting of highways in the environment of SMOL language" Metrology and Measurement Systems (www.metrology.pg.gda.pl), vol. 24, no. 3, pp. 101-116	IF = 0,764	2017
2.	Z. Kowalczuk, T. Bia³aszewski, „Gender approaches to evolutionary multi-objective optimization using pre-selection of criteria" Engineering Optimization (DOI=10.1080/0305215X.2017.1305374), vol. 50, no. 1, pp. 121-145	IF=1,23	2018
3.	Z. Kowalczuk, M. Tatara „Sphere drive and control system for haptic interaction with physical, virtual and augmented reality" IEEE Trans. Control Systems Technology, pp. 1-13	IF=3.882	2018
4.			
5.			

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

No	Project title, the name of the Princ. Investigator (PI) and the institution the project was carried out	Year awarded	Role in the project
1.	Air quality management in agglomerations using the www server (EUREKA (E! 3266 EUROENVIRON WEBAIR) 2011-2014 (PG-WZIE/WCH/WETI)	2011	co-PI
2.	(Please fill in here)	(fill in)	Wybierz element.

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3.	(Please fill in here)	(fill in)	Wybierz element.

Additional relevant information – (no more than 1600 charters)[iv]

Recent Books: Advanced Modeling of Management Processes in Information Technology. Studies in Computational Intelligence 518, pp. 375, Springer Verlag, 2014; Advanced and Intelligent Computations in Diagnosis and Control. Advances in Intelligent Systems and Computing 386, pp. 442. Springer I.P. Switzerland, 2016; Member of the scientific committees of 7 international journals, including the post of Associate Editor of the IEEE Transactions on Cognitive and Developmental Systems (https://cis.ieee.org/publications/t-cognitive-and-developmental-systems/trecenzj-editors-and-associate-editors) IF=1.952.

[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)