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Disciplineⁱ Control, electronic and electrical engineering

Bibliometric indicators

1.	Number of journal publications in WoS/ Scopus	66/ 65
2.	Citations (WoS/Scopus) excluding self-citations	524 / 945
3.	Hirsch index (WoS/Scopus)	11 /13
4.	Hirsch index in Google Scholar	14
5.	Citations in Google Scholar	1460

1. The number of PhD students who have graduated under your supervision: 0
2. The number of PhD students currently supervised: 2
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

Induction motor and permanent motor sensorless control drives, multiphase motor drives, five phase induction motors, electric drives with inverter output filters, electric vehicles, modelling of multiphase motors, failures detection in electric drives, power electronics converters, pulse width modulation.

PhD Advisor form

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

1. Is funding available for experimental work: Yes
2. Is the equipment needed to complete a PhD project available in your lab/department: No

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 SCOPUS	Publication year
1.	Czapp S., Guziński J.: Electric shock hazard in circuits with variable-speed drives, Bulletin of the Polish Academy of Sciences-Technical Sciences. -Vol. 66, nr. 3 (2018), s.361-372.	1.238 / 0 / 1	2018
2.	Wilczyński F., Strankowski P., Guziński J., Morawiec M., Lewicki A.: "Sterowanie wektorowe pięciofazowym silnikiem indukcyjnym z optymalizacją rozkładu strumienia wirnika", Wiadomości Elektrotechniczne, no 11, 2017 (Rok LXXXV), pp. 23-28.	0 / 0 / 0	2017
3.	Lewicki A., Strankowski P., Morawiec M., Guziński J.: "Optimized Space Vector Modulation Strategy for Five Phase Voltage Source Inverter with Third Harmonic Injection", The 19th Conference EPE'17 ECCE, Warsaw, Poland.	0 / 0 / 0	2017
4.	Wilczyński F., Morawiec M., Strankowski P., Guziński J., Lewicki A.: "Sensorless Field Oriented Control of Five Phase Induction Motor with Third Harmonic Injection", 11th International Conference CPE-POWERENG 2017, April 4th-6th, 2017, Cadiz, Spain.	0 / 0 / 2	2017
5.	Guziński J., Abu-Rub H., Strankowski P.: "Speed Sensorless AC Drive with Inverter LC Filter and Fault Detection Using Load Torque Signal", Przegląd Elektrotechniczny, nr. 2, 2017, pp. 289-297.	0 / 0 / 0	(fill in)

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.	GRANT from Polish Government (National Science Centre): "Algorithms of control, estimation, and diagnostic for electric drives with multiphase induction motors and LC filters", 2014-2017.	2014	PI
2.	GRANT from Polish Government (Ministry of Science and Higher Education): "Electric drive with induction motor, voltage inverter and LC filter – control and diagnostic", 2008-2010.	2008	PI

PhD Advisor form

3.	GRANT from Polish Government (The State Committee for Scientific Research): "Closed loop control of the induction motor with voltage inverter output filter", 2004-2006.	2004	PI
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Additional relevant information – (no more than 1600 charters)^{iv}

The principal scientific and technological contributions of the Department include: original control methods of AC machines based on multiscalar machine models and nonlinear feedback; advanced speed observers for sensor less control of AC machines; original diagnostic methods of electrical machines and torque transmission systems; new concepts of power electronic converters, notably based on SiC devices; original control algorithms for grid connected power converters; analyses of inverters with output filters and novel control algorithms of such inverters; development of control principles for electric drives with multiphase machines.

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)