

Name of the advisor: Zbigniew Czaja**Academic title: Ph.D., D.Sc., Eng., Associate professor**Orcid ID number: <https://orcid.org/0000-0001-9022-4101>**Department of Metrology and Optoelectronics****Faculty of Electronic, Telecommunication and Informatics****Gdańsk University of Technology****Phone: 58 347-14-87****E-mail: zbczaja@pg.edu.pl****Personal web page: <http://www.pg.gda.pl/~zbczaja>****Disciplineⁱ control, electronic and electrical engineering****Bibliometric indicators**

1.	Number of journal publications in WoS/ Scopus	14 / 13
2.	Citations (WoS/Scopus) excluding self-citations	99/96
3.	Hirsch index (WoS/Scopus)	7/8
4.	Hirsch index in Google Scholar	9
5.	Citations in Google Scholar	343

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

2. The number of PhD students currently supervised: 0

3. Are you currently accepting new PhD students:

- a. Polish Yes
- b. Foreign No

Research interests or topics offered for PhD research (no more than 2000 characters)ⁱⁱ

- Development of new measurement methods and new solutions of smart sensors based on a direct microcontroller-sensor interface, where the sensor is modeled by two-terminals consisting of RLC components. It is assumed that in the methods we use only internal measurement resources (timers/counters, ADCs and DACs, analog comparators, event systems, etc.) and small computing power of 8-bit microcontrollers.
- Development of new and modification (adaptation) of existing methods and algorithms of data acquisition and data processing for microcontrollers, especially for low power microcontrollers. This activity is due to the need to adapt these methods and algorithms to the limited computing resources of 8-bit microcontrollers.

PhD Advisor form

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 SCOPUS	Publication year
1.	Czaja Z. / Time-domain measurement methods for R, L and C sensors based on a versatile direct sensor-to-microcontroller interface circuit / Sensors and Actuators A-Physical	2.311 / Q2 / 2.79	2018
2.	Czaja Z., Kowalewski M. / A random signal generation method for microcontrollers with DACs / Metrology and Measurement Systems	1.523 / Q3 / 1.61	2018
3.			
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.	(Please fill in here)	(fill in)	Wybierz element.
2.	(Please fill in here)	(fill in)	Wybierz element.

PhD Advisor form

3.	(Please fill in here)	(fill in)	Wybierz element.
Additional relevant information – (no more than 1600 characters)^{iv} (Please fill in here)			

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)