



Wrocław, 07-May-2020

Department of Applied Informatics

Wrocław University of Science and Technology

Wyb. Wyspiańskiego 27, 50-370 Wrocław, Poland

Website: <https://kis.pwr.edu.pl/en/>

WUST-funded PhD scholarships

Department of Applied Informatics currently has some PhD scholarships available at the Wrocław University of Science and Technology (WUST).

We seek talented individuals from different backgrounds and expertise with interests in computational collective intelligence, knowledge engineering, network science, and data quality. The ideal candidate has a Master's degree (or an equivalent degree) in a physics, mathematics, computer science or statistics, should have a good command of English, and be motivated to work on an interdisciplinary project mixing computer science and management. Professional level of familiarity with information and communication technology is expected.

What is offered?

- Scholarships in the amount consistent with Polish law: 2,371 PLN gross (2,104 PLN net) per month in the first period of studying (1st and 2nd year), and 3,653 PLN gross (3,242 PLN net) per month in the second period of studying (3rd and 4th year) after obtaining a positive mid-term evaluation after 2 years of studying, calculated as 57%. It includes medical insurance.
- Participation in the Doctoral School of WUST is free of charge, including: 30 hours of research skills course, 150 hours of basic science courses, specialized courses, or humanities courses, 60 hours of higher education didactics course, 60 hours of interdisciplinary seminars, and 90 hours of foreign language courses.
- There is a possibility of additional work as a research assistant.

Our current work spans the development of:

- Mining Sequence and Inter-Sequence Patterns in Large Databases
- Data quality assessment methods applied in smart industry
- Modelling of business processes using knowledge engineering methods and tools
- Predicted performance analysis in the industrial IoT environment
- Automatic Method of Content-Based Video Summarization using the Integrated Analysis of Different Media Streams
- Automatic Method of Content-Based Temporal Segmentation of Continuous Sports Videos



HR EXCELLENCE IN RESEARCH

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and Technology

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- Method of Calculation of the Number of People Participating in Mass Gatherings using Surveillance Video Analysis
- Impact of Compression Algorithms on the Results of Content-Based Temporal Segmentation of Videos
- Automatic software repair
- Machine learning methods for imbalanced data in software engineering
- Mutation testing
- User story effort prediction
- Automatic machine learning models considering specific characteristics of software engineering data
- Measures for performance evaluation of multiclass classification models considering specific characteristics of software engineering data

Prospective students should submit an application consisting of:

- Application form
- Curriculum Vitae
- List of scientific achievements
- Copy of the passport
- Scanned copy of the diploma(s) with legalization/Apostille
- Transcript of records
- Description of the grading system
- Two references from the university or the employer, describing the applicant's scientific achievements and indicating the predisposition to conduct research
- English language certificate equivalent to minimum B1 level

Application deadline: June 8th, 2020.

Starting date: From October 1st, 2020.

More details, including the documents constituting the application file, are outlined on the WUST Doctoral School website: <https://szd.pwr.edu.pl/en/for-candidates>

This documents, as well as any question or request for additional information, should be sent by email to all two advisors:

- Prof. Ngoc Thanh Nguyen < Ngoc-Thanh.Nguyen@pwr.edu.pl >
- Prof. Dariusz Krol < Dariusz.Krol@pwr.edu.pl >



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