# information and communication technology

**Szkoła Doktorska na Politechnice Gdańskiej - Lista potencjalnych promotorów dla doktorantów w ramach Szkoły Doktorskiej - Rok akademicki 2026/2027**

| Lp./No. | Stopień/Degree | Imię/First Name | Nazwisko/Last name | Zatrudnienie/Employment | Słowa kluczowe/Key words | Przyjmowanie nowych doktorantów - Polaków /Accepting new Polish PhD students (Yes / No) | Przyjmowanie nowych doktorantów - cudzoziemców /Accepting new foreign PhD students (Yes / No) | Liczba doktorantów, których może przyjąć pod opiekę w r.a. 2026/2027/ Number of PhD students to can be supervised in the doctoral school in a.y. 2026/2027 |
|---|---|---|---|---|---|---|---|---|
| 1 | prof. dr hab. inż. | Adrian | Bekasiewicz | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Teleinformation Networks | 1. Numerical optimization<br>2. Antenna engineering<br>3. Measurement post-processing<br>4. indoor localization | Yes | Yes | **3** |
| 2 | dr hab. | Marcin | Ciecholewski | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Geoinformatics | 1. computer vision<br>2. medical image analysis<br>3. machine learning/deep learning<br>4. remote sensing | Yes | Yes | **3** |
| 3 | dr hab. inż. | Paweł | Czarnul | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Computer Architecture | 1. high performance computing<br>2. parallel programming<br>3. green computing<br>4. algorithm design, analysis and optimization | Yes | Yes | **3** |
| 4 | prof. dr hab. inż. | Andrzej | Czyżewski | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Multimedia Systems | 1. Machine Learning<br>2. Natural Language Processing (NLP)<br>3. Neural Networks<br>4. Man-machine Interaction | Yes | No | **3** |
| 5 | prof. dr hab. inż. | Dariusz | Dereniowski | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Algorithms and Systems Modelling | 1. graph algorithms<br>2. discrete optimization<br>3. theoretical computer science<br>4. mobile agent computing | Yes | No | **3** |

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|---|---|---|---|---|---|---|---|---|
| 6 | prof. dr hab. inż. | Bożena | Kostek | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Audio Acoustics Laboratory | 1. intelligent speech and music processing<br>2. machine learning/deep learning<br>3. multimodal processing<br>4. explainable AI | Yes | No | **3** |
| 7 | dr hab. inż. | Józef | Kotus | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Multimedia Systems | 1. sound intensity<br>2. spatial filtration<br>3. speech processing<br>4. acoustic measurements | Yes | Yes | **3** |
| 8 | dr hab. inż. | Agnieszka | Landowska | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Software Engineering | 1. affective computing<br>2. user experience<br>3. accessibility<br>4. emotion recognition | Yes | Yes | **3** |
| 9 | dr hab. inż. | Piotr | Mironowicz | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Algorithms and Systems Modelling | 1. quantum cryptography<br>2. quantum computing<br>3. graph theory<br>4. numerical methods | Yes | Yes | **3** |
| 10 | dr hab. inż. | Jerzy | Proficz | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Computer Architecture | 1. Energy efficiency<br>2. Performance-energy optimization<br>3. Energy-aware processing<br>4. High Performance Computing | Yes | No | **2** |
| 11 | dr hab. inż. | Jacek | Rak | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Computer Communications | 1. Resilience of networked systems<br>2. Disaster-resilience of communication networks<br>3. Network resource optimization<br>4. Resilience of 5G+ networks | Yes | Yes | **3** |
| 12 | prof. dr hab. inż. | Jacek | Rumiński | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Biomedical Engineering | 1. artificial intelligence<br>2. human-system interaction<br>3. image processing<br>4. active assisted living | Yes | Yes | **3** |

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|---|---|---|---|---|---|---|---|---|
| 13 | dr hab. inż. | Piotr | Szczuko | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Multimedia Systems | 1. computer vision<br>2. explainability<br>3. multimedia processing<br>4. multimodal large language models | Yes | No | **3** |
| 14 | dr hab. inż. | Joanna | Szłapczyńska | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Computer Architecture | 1. Multi-Objective Optimisation (MOO)<br>2. AI in maritime transport<br>3. MultiCriteria Decision Making (MCDM)<br>4. Decision Support System (DSS) | Yes | Yes | **3** |
| 15 | dr hab. inż. | Rafał | Szłapczyński | Faculties of Gdańsk University of Technology, Faculty of Mechanical Engineering and Ship Technology, Institute of Naval Architecture, Division of Applied Computer Science | 1. Multi-Objective Meta-Heuristics<br>2. Multi-Criteria Decision Making<br>3. Decision Support Systems<br>4. Prediction and classification problems | Yes | Yes | **3** |
| 16 | dr hab. inż. | Grzegorz | Szwoch | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Multimedia Systems | 1. signal processing<br>2. audio analysis and processing<br>3. multimedia systems<br>4. acoustics | Yes | No | **3** |
| 17 | dr hab. inż. | Julian | Szymański | Faculties of Gdańsk University of Technology, Faculty of Electronics Telecommunications and Informatics, Department of Computer Architecture | 1. NLP<br>2. data analysis<br>3. neural networks<br>4. IOT | Yes | Yes | **3** |