# Machine Vision Group

Department of Automatics and Robotics – Computer Vision Lab
Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering
AGH University of Science and Technology

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The *Machine Vision Research Group* (MVG Group) focuses on interdisciplinary research problems from the field of machine vision and medicine. The problems are solved using methods of digital image processing and analysis, machine learning and deep learning.

## Team

| **Joanna Jaworek-Korjakowska**, Associate professor (dr hab. inż., prof. Uczelni) | **Anna Wójcicka**, PhD | **Andrzej Brodzicki**, PhD |
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| **Dariusz Kucharski**, MSc PhD student | **Michał Piekarski**, MSc PhD student | **Aleksander Kostuch**, MSc PhD student | **Maciej Aleksandrowicz**, MSc PhD student | **Filip Noworolnik**, MSc PhD student | **Bartłomiej Moniak**, MSc PhD student |
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## Aktualności

### [2024-04-15] SECURE cybersecurity conference

Members of our team participated in a prestigious cybersecurity conference SECURE 2024, organised in Warsaw. Prof. Joanna Jaworek-Korjakowska had a speach, while Andrzej Brodzicki and Bartłomiej

Moniak organised workshops about interpretability.

### [2024-04-11] AGH AI Days

Members of our team participated in and co-organised AGH AI Days - an event dedicated to promote AI among students at our university. Our workshops covered the topics of AI Interpretability and Reinforcement Learning.

### [2023-12-27] Our first DeepRL publication

We are delighted to announce that our first work in the field of Deep Reinforcement Learning (DeepRL) entitled "Metrics for Assessing Generalization of Deep Reinforcement Learning in Parameterized Environments" has been published at *Journal of Artificial Intelligence and Soft Computing Research* (IF 2.8). This work of Maciej and Joanna is the beginning of the DeepRL series. It is also worth emphasizing that this is the Maciej's first article as the first author.

`The article links: Paper | GitHub repository`

### [2023-06-20] ICRA 2023 attendance

One of our team member, Maciej, participated in ICRA 2023 (International Conference on Robotics and Automation), one of the most important robotics conferences worldwide, organized by the prestigious IEEE RAS. During this amazing event, Maciej had the opportunity to gather incredible knowledge and learn about the latest trends in robotics and methods of using artificial intelligence to solve various manipulation and navigation problems. We look forward to seeing how Maciej will apply the experience he has accumulated to our new research projects.

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### [2023-04-28] PP-RAI 2023

On begging of this week (24-26 April) Andrzej, Michał, Maciej and Aleksander participated in the 4th PP-RAI 2023 (Polish Conference on Artificial Intelligence) in Lodz, where they presented a poster entitled “Transformers neural networks applications in different computer vision tasks” (authors: Andrzej Brodzicki, Michał Piekarski, Aleksander Kostuch, Filip Noworolnik, Maciej Aleksandrowicz, Anna Wójcicka, Joanna Jaworek-Korjakowska). They listened to many interesting talks and viewed dozens of inspiring posters. They also took part in networking activities: a tour of Lodz, a reception and a gala dinner.

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