

# Kirill Akhmetzyanov

## Personal Details

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## Education

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| <b>Perm National Research Polytechnic University</b> , PhD  | 2017 - present |
| Thesis: " <i>Development of computer vision algorithm based on neural networks for sorting of plastic materials</i> " |                |
| Advisor: Alexander Yuzhakov   |                |
| Department of Electrical Engineering  |                |
| <b>Perm National Research Polytechnic University</b> , Master of Science  | 2012 - 2017    |
| Thesis: " <i>Development of face recognition program for access control systems</i> "                                 |                |
| Advisor: Alexander Yuzhakov   |                |
| Department of Electrical Engineering  |                |

## Journal and Conference Publications

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1. **Kirill Akhmetzyanov**, Alexander Yuzhakov. "Multi-Task Multicriteria Hyperparameter Optimization." *arXiv preprint arXiv:2002.06372*. 2020.
2. **Kirill Akhmetzyanov**, Alexander Yuzhakov, Andrey Kokoulin. "Neural Network Development Based on Knowledge about Environmental Influence." *2020 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (ElConRus)*. IEEE, 2020.
3. **Kirill Akhmetzyanov**, Alexander Yuzhakov. "Waste sorting neural network architecture optimization." *2019 International Russian Automation Conference (RusAutoCon)*. IEEE, 2019.
4. **Kirill Akhmetzyanov**, Alexander Yuzhakov. "Neural Network Development on the Basis of Knowledge of Environment Exposures." *Neurocomputers: Development and Application*. No. 3. 2019.
5. **Kirill Akhmetzyanov**, Alexander Yuzhakov. "Neural Network Architecture Optimization for Waste Group Sorting." *Saint Petersburg Electrotechnical University Journal*. No. 7. 2019.
6. **Kirill Akhmetzyanov**, Alexander Yuzhakov. "Convolutional Neural Networks Comparison for Waste Sorting Tasks." *Saint Petersburg Electrotechnical University Journal*. No. 6. 2018.

## Patents

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1. **Kirill Akhmetzyanov**, Alexander Tur, Andrey Kokoulin, Alexander Yuzhakov. "Binocular Vision Program Taking into Account the Distance to the Object". 2019.
2. Alexander Tur, Andrey Kokoulin, **Kirill Akhmetzyanov**, Alexander Yuzhakov. "Automatic Machine for Receiving Waste". 2019.

## Other Professional Activities

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1. Participant of TensorFlow Research Cloud (TFRC) program 2019 - present
2. **Kirill Akhmetzyanov**, Alexander Yuzhakov. "Neural Network Development Based on Knowledge about Environmental Influence". *Poster Session on OpenTalks*. 2019.