Publications

Full lists of publications (in BPP AGH database):

- Joanna Jaworek-Korjakowska
- Paweł Kłeczek
- Andrzej Brodzicki
- Dariusz Kucharski
- Michał Piekarski

MVG Group IF: 25.7
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2023

- **Aleksandrowicz M.** and **Jaworek-Korjakowska J.**: *Metrics for Assessing Generalization of Deep Reinforcement Learning in Parameterized Environments*, Journal of Artificial Intelligence and Soft Computing Research, 2023, **IF 2,8, 140 pkt**, 10.2478/jaiscr-2024-0003, GitHub repo.

2022

- Cassidy B., Kendrick C., **Brodzicki A.**, **Jaworek-Korjakowska J.**, Hoon Yap M.: Analysis of the ISIC image datasets: usage, benchmarks and recommendations, Medical Image Analysis, 2022, **IF 8.545, 200 pkt**
- **Wójcicka A.**, Walusiak Ł., Mroczka K., **Jaworek-Korjakowska J.**, Oprzędkiewicz K., Wróbel Z.: The object segmentation from the microstructure of a FSW dissimilar weld, Materials, 2022, **IF 3,748, 140 pkt**
- **Brodzicki A.**, **Kucharski D.**, **Piekarski M.**, **Kostuch A.**, **Jaworek-Korjakowska J.**: Deep neural network interpretability methods for supervised and unsupervised problems, PP-RAI'2022: proceedings of the 3rd Polish conference on Artificial intelligence, 2022
- Gorgoń M., et al.: Systemy wizyjne w zastosowaniach przemysłowych, Nauka – technika – technologia : seria wydawnicza AGH, 2022
- **Piekarski M.**: Deep Neural Network for Beam Profile Classification in Synchrotron, International Beam Instrumentation Conference, 2022
- **Kucharski D.**, **Kostuch A.**, **Brodzicki A.**, **Noworolnik F.**, **Jaworek-Korjakowska J.**: DFU-Ens: End-to-End Diabetic Foot Ulcer Segmentation Framework with Vision Transformer Based Detection, Proceedings of the 25th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2022
- **Jaworek-Korjakowska, J.**, **Wójcicka A.**, **Kucharski D.**, **Brodzicki A.**, Kendrick C., Cassidy B., Hoon Yap M.: Skin_Hair dataset: Setting the benchmark for effective hair inpainting methods for improving the image quality of dermoscopic images, Proceedings of the 2022 European Conference on Computer Vision (ECCV), 2022

2021

- **Jaworek-Korjakowska J.**, **Kostuch A.**, Skruch P.: SafeSO: interpretable and explainable deep learning approach for seat occupancy classification in vehicle interior, 2021 IEEE/CVF conference on Computer Vision and Pattern Recognition Workshops, 2021
- **Brodzicki A.**, **Piekarski M.**, **Jaworek-Korjakowska J.**: The whale optimization algorithm approach for deep neural networks, Sensors, 2021, IF 3,847, 100 pkt
- **Jaworek-Korjakowska J.**, **Brodzicki A.**, Cassidy B., Kendrick C., Hoon Yap M.: Interpretability of a deep learning based approach for the classification of skin lesions into main anatomic body sites, Cancers, 2021, IF 6.575, 140 pkt

2020

- **Andrzej Brodzicki**, **Joanna Jaworek-Korjakowska**, **Paweł Kłeczek**, Megan Garland, Matthew Bogyo. *Pre-trained deep convolutional neural network for clostridioides difficile bacteria cytotoxicity classification based on fluorescence images*, Sensors, 20(23), 2020, 10.3390/s20236713 (HTML)
[IF5 (2018) = ???]
- **Michał Piekarski**, **Joanna Jaworek-Korjakowska**, Adriana I. Wawrzyniak, **Marek Gorgon**, Convolutional neural network architecture for beam instabilities identification in Synchrotron Radiation Systems as an anomaly detection problem, Measurement, 2020, https://doi.org/10.1016/j.measurement.2020.108116
[IF5 (2018) = 3.364, Top10]
- **Dariusz Kucharski**, **Pawel Kleczek**, **Joanna Jaworek-Korjakowska**, Grzegorz Dyduch, **Marek Gorgon**. *Semi-Supervised Nests of Melanocytes Segmentation Method Using Convolutional Autoencoders*. Sensors, 2020, vol. 20, issue 6, 1546, doi: 10.3390/s20061546 (HTML)
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- **Joanna Jaworek-Korjakowska**, **Pawel Kleczek**, **Marek Gorgon**. *Melanoma Thickness Prediction Based on Convolutional Neural Network With VGG-19 Model Transfer Learning*. 2019 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), Long Beach, CA, USA, 2019, pp. 2748–2756, doi: https://doi.org/10.1109/CVPRW.2019.00333
[Honorable Mention Award; 200 pkt MNiSW]
- **Pawel Kleczek**, **Joanna Jaworek-Korjakowska**, **Marek Gorgon**. *A novel method for tissue segmentation in high-resolution H&E-stained histopathological whole-slide images*. Computerized Medical Imaging and Graphics, 2020, vol. 79, 2022, Art. ID 101686, doi: 10.1016/j.compmedimag.2019.101686 (HTML)
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2019

- **Pawel Kleczek**, Grzegorz Dyduch, Agnieszka Graczyk-Jarzynka, **Joanna Jaworek-Korjakowska**. *A New Approach to Border Irregularity Assessment with Application in Skin Pathology*. Applied Sciences (Basel), 2019, 9(10), 2022, doi: 10.3390/app9102022 (Abstract,

HTML, PDF)
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- (konferencja) ICALEPCS'19 **Michał Piekarski**, W.T Kitka, **Joanna Jaworek-Korjakowska**. *Deep Neural Network for Anomaly Detection in Accelerators* (PDF, Poster, Web)

2018

- **Paweł Kłeczek**, Martyna Lech, Grzegorz Dyduch, **Joanna Jaworek-Korjakowska**, Ryszard Tadeusiewicz. *Segmentation of black ink and melanin in skin histopathological images*. Proc. SPIE 10581, Medical Imaging 2018: Digital Pathology, 105811A (2018); doi: 10.1117/12.2292859. (Abstract)

- **Joanna Jaworek-Korjakowska**, **Pawel Kleczek**. *eSkin: Study on the Smartphone Application for Early Detection of Malignant Melanoma*. Wireless Communications and Mobile Computing, vol. 2018, Article ID 5767360, pp. 1–11, (2018). doi: 10.1155/2018/5767360. (HTML, PDF)
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- **Joanna Jaworek-Korjakowska**, **Pawel Kleczek**. *Region Adjacency Graph Approach for Acral Melanocytic Lesion Segmentation*. Applied Sciences (Basel), 2018, 8(9), 1430, doi: 10.3390/app8091430 (Abstract, HTML, PDF)
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- Elżbieta Pociask, Krzysztof Piotr Malinowski, Magdalena Ślęzak, **Joanna Jaworek-Korjakowska**, Wojciech Wojakowski, Tomasz Roleder. *Fully automated lumen segmentation method for intracoronary optical coherence tomography*. Journal of Healthcare Engineering 2018, art. ID 1414076, pp. 1–13, doi: 10.1155/2018/1414076 (HTML, PDF)
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- **Joanna Jaworek-Korjakowska**. *A deep learning approach to vascular structure segmentation in dermoscopy colour images*. BioMed Research International 2018, art. ID 5049390, pp. 1–8, doi: 10.1155/2018/5049390 (HTML, PDF)
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- Megan Garland, **Joanna Jaworek-Korjakowska**, Urszula Libal, Matthew Bogyo, Marcin Sieńczyk. *An automatic analysis system for high-throughput Clostridium Difficile toxin activity screening*. Applied Sciences (Basel), 2018, 8(9), Art no. 1512, pp. 1–14, doi: 10.3390/app8091512 (HTML, PDF)
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2017

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- Philip Gouverneur, **Joanna Jaworek-Korjakowska**, Lukas Köping, Kimiaki Shirahama, **Paweł Kłeczek**, Marcin Grzegorzek. *Classification of Physiological Data for Emotion Recognition*. ICAISC 2017: Artificial Intelligence and Soft Computing (2017), doi: 10.1007/978-3-319-59063-9_55, pp. 619–627 (Abstract)

- **Joanna Jaworek-Korjakowska**, **Paweł Kłeczek**, Marcin Grzegorzek, Kimiaki Shirahama.

Automatic Detection of Blue-Whitish Veil as the Primary Dermoscopic Feature. ICAISC 2017: Artificial Intelligence and Soft Computing (2017), doi: 10.1007/978-3-319-59063-9_55, pp. 649–657 (Abstract)

- **Paweł Kłeczek**, Sylwia Mól, **Joanna Jaworek-Korjakowska**. *The Accuracy of H&E Stain Unmixing Techniques When Estimating Relative Stain Concentrations*. PCBBE 2017: Advances in Intelligent Systems and Computing, Springer (2017), doi: 10.1007/978-3-319-66905-2_7, pp. 87–97 (Abstract)
- **Joanna Jaworek-Korjakowska**, **Paweł Kłeczek**, Ryszard Tadeusiewicz. *Detection and classification of pigment network in dermoscopic color images as one of the 7-point checklist criteria*. PCBBE 2017: Advances in Intelligent Systems and Computing, Springer (2017). pp. 174–181 (Abstract)

2016

- **Joanna Jaworek-Korjakowska**, **Paweł Kłeczek**. *Automatic Classification of Specific Melanocytic Lesions Using Artificial Intelligence*. BioMed Research International, 2016, Vol. 2016, Article ID 8934242, 17 pages. doi: http://dx.doi.org/10.1155/2016/8934242 (HTML, PDF)
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- Elżbieta Pociask, **Joanna Jaworek-Korjakowska**, Krzysztof Piotr Malinowski, Tomasz Roleder, Wojciech Wojakowski. *Fully automated lipid pool detection using near infrared spectroscopy*. Computational and Mathematical Methods in Medicine, 2016, art. ID 1487859, pp. 1–9, doi: 10.1155/2016/1487859 (HTML, PDF)
[IF = 1.2]
- **Joanna Jaworek-Korjakowska**. *Computer-aided diagnosis of micro-malignant melanoma lesions applying support vector machines*. BioMed Research International, 2016, art. ID 4381972, pp. 1–8, doi: 10.1155/2016/4381972 (HTML, PDF)
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2015

- **Joanna Jaworek-Korjakowska**. *Novel method for border irregularity assessment in dermoscopic color images*. Computational and Mathematical Methods in Medicine, 2015, art. ID 496202, pp. 1–11, doi: 10.1155/2015/496202 (HTML, PDF)
[IF = 0.887]
- **Joanna Jaworek-Korjakowska**, Ryszard Tadeusiewicz. *Design of a teledermatology system to support the consultation of dermoscopic cases using mobile technologies and cloud platform*. Bio-Algorithms and Med-Systems, 2015, 11(1), pp. 53–58, doi: 10.1515/bams-2015-0004 (Abstract)

2014

- **Paweł Kłeczek**, Jarosław Wąs. *Simulation of Pedestrians Behavior in a Shopping Mall*. Lecture Notes in Computer Science, 2014, Vol. 8751, pp. 650–659, doi: 10.1007/978-3-319-11520-7_69 (Abstract & preview)

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- **Joanna Jaworek-Korjakowska**, Ryszard Tadeusiewicz. *Hair removal from dermoscopic color images*. Bio-Algorithms and Med-Systems, 2013, 9(2), pp. 53–58, doi: 10.1515/bams-2013-0013 (Abstract)

2011

- **Joanna Jaworek**. *Wykorzystanie metod przetwarzania obrazów w rozpoznawaniu i diagnostyce czerniaka złośliwego*. PAR Pomiary Automatyka Robotyka, 2011, 15(12), pp. 100–101 (Abstract, PDF)
- Tomasz Pięciak, **Joanna Jaworek**, **Marek Gorgoń**. *Neural networks for medical image processing*. Bio-Algorithms and Med-Systems, 2011, 7(4), pp. 101–110 (Abstract)

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