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

2020

- (In Press) **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)
  [IF (2019): 3.275; IF5 (2018) = 2.737, Top10]
- **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)
  [IF (2018) = 3.298; IF5 (2018) = 2.737, Top10]

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)
  [IF (2018) = 2.217; IF5 (2018) = 2.287]
- (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)
[IF5 (2018) = 1.364]

- **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)
[IF5 (2018) = 2.287]

- 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)
[IF5 (2018) = 1.261]

- **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)
[IF5 (2018) = 2.583]

- 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)
[IF5 (2018) = 2.287]

2017

- **Paweł Kłeczek**, Grzegorz Dyduch, **Joanna Jaworek-Korjakowska**, Ryszard Tadeusiewicz. *Automated epidermis segmentation in histopathological images of human skin stained with hematoxylin and eosin*. Proc. SPIE 10140, Medical Imaging 2017: Digital Pathology, 101400M (2017). doi: 10.1117/12.2249018. (Abstract, Poster PDF)

- 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)
  [IF (2016) = 2.134; IF5 (2016) = 2.587]
- 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)
  [IF = 2.476]

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)

2013

- **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)