

# Achievements

## Publications

Full lists of publications (in BPP AGH database):

- [Joanna Jaworek-Korjakowska](#)
- [Paweł Kleczek](#)

### 2020

- **Paweł 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](https://doi.org/10.1016/j.compmedimag.2019.101686) (HTML)  
[IF5 (2018) = 2.737]

### 2019

- **Paweł 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](https://doi.org/10.3390/app9102022) (Abstract, HTML, PDF)  
[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 Kleczek, 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](https://doi.org/10.1117/12.2292859). (Abstract)
- **Joanna Jaworek-Korjakowska, Paweł 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](https://doi.org/10.1155/2018/5767360). (HTML, PDF)
- **Joanna Jaworek-Korjakowska, Paweł Kleczek.** *Region Adjacency Graph Approach for Acral Melanocytic Lesion Segmentation.* Applied Sciences (Basel), 2018, 8(9), 1430, doi: [10.3390/app8091430](https://doi.org/10.3390/app8091430) (Abstract, HTML, PDF)
- **Elżbieta Pociask, Krzysztof Piotr Malinowski, Magdalena Ślęzak, Joanna Jaworek-Korjakowska, Wojciech Woźniakowski, 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](https://doi.org/10.1155/2018/1414076) (HTML, PDF)
- **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](https://doi.org/10.1155/2018/5049390) (HTML, PDF)

- 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](https://doi.org/10.3390/app8091512) (HTML, PDF)

## 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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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) [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](https://doi.org/10.1155/2016/1487859) (HTML, PDF)
- **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](https://doi.org/10.1155/2016/4381972) (HTML, PDF)

## 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](https://doi.org/10.1155/2015/496202) ([HTML](#), [PDF](#))

- **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](https://doi.org/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](https://doi.org/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](https://doi.org/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](#))

## Conferences

### 2019

- [Tango Meeting 2019](#) **Michał Piekarski**: *Deep Neural Network for Anomaly Detection in Multivariate Signals* (presentation)

## Awards

### 2019

- [56. Konferencja kół naukowych AGH](#), sekcja AiR – **Michał Piekarski**: I miejsce  
Temat: *Detekcja anomalii stabilności wiązki elektronów w synchrotronie SOLARIS*

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