

Computerized analysis of pigmented skin lesions: A rev

Artificial Intelligence in Medicine

56, 69-90

DOI: [10.1016/j.artmed.2012.08.002](https://doi.org/10.1016/j.artmed.2012.08.002)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 9. Melanoma thickness prediction. , 0, , . | | 0 |
| 2 | Machine vision 3D skin texture analysis for detection of melanoma. Sensor Review, 2011, 31, 111-119. | 1.0 | 19 |
| 4 | Skin lesion image segmentation using a color genetic algorithm. , 2013, , . | | 9 |
| 5 | A robust hair segmentation and removal approach for clinical images of skin lesions. , 2013, 2013, 3315-8. | | 32 |
| 6 | Noninvasive diagnosis of melanoma with tensor decomposition-based feature extraction from clinical color image. Biomedical Signal Processing and Control, 2013, 8, 755-763. | 3.5 | 12 |
| 7 | Detection and Analysis of Irregular Streaks in Dermoscopic Images of Skin Lesions. IEEE Transactions on Medical Imaging, 2013, 32, 849-861. | 5.4 | 95 |
| 8 | PH<sup>2</sup> - A dermoscopic image database for research and benchmarking. , 2013, 2013, 5437-40. | | 426 |
| 9 | A systematic review on the evaluation and characteristics of computer-aided diagnosis systems. Revista Brasileira De Engenharia Biomedica, 2014, 30, 355-383. | 0.3 | 17 |
| 10 | A cascade classifier for diagnosis of melanoma in clinical images. , 2014, 2014, 6748-51. | | 22 |
| 11 | Real-time acquisition of quality verified nonstandardized color images for skin lesions risk assessment — A preliminary study. , 2014, , . | | 7 |
| 12 | Skin lens: Skin assessment video filters. , 2014, , . | | 1 |
| 13 | Hair Enhancement in Dermoscopic Images Using Dual-Channel Quaternion Tubularness Filters and MRF-Based Multilabel Optimization. IEEE Transactions on Image Processing, 2014, 23, 5486-5496. | 6.0 | 22 |
| 14 | Simpler, Faster, More Accurate Melanocytic Lesion Segmentation Through MEDS. IEEE Transactions on Biomedical Engineering, 2014, 61, 557-565. | 2.5 | 67 |
| 15 | Spatial Normalization of Human Back Images for Dermatological Studies. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1494-1501. | 3.9 | 9 |
| 16 | Melanoma Decision Support Using Lighting-Corrected Intuitive Feature Models. Series in Bioengineering, 2014, , 193-219. | 0.3 | 17 |
| 17 | Palpation as a useful diagnostic tool for skin lesions. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2014, 67, 804-807. | 0.5 | 8 |
| 18 | Pigment network detection in dermoscopic images for melanoma diagnosis. Irbm, 2014, 35, 128-138. | 3.7 | 11 |
| 19 | Skin diseases diagnosis using artificial neural networks. , 2014, , . | | 21 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 20 | Integrating Radio Imaging With Gene Expressions Toward a Personalized Management of Cancer. IEEE Transactions on Human-Machine Systems, 2014, 44, 664-677. | 2.5 | 18 |
| 21 | Automated Detection of Melanoma in Dermoscopic Images. Series in Bioengineering, 2014, , 139-192. | 0.3 | 14 |
| 22 | Performance of a dermoscopy-based computer vision system for the diagnosis of pigmented skin lesions compared with visual evaluation by experienced dermatologists. Artificial Intelligence in Medicine, 2014, 60, 13-26. | 3.8 | 46 |
| 23 | Detection of pigment network in dermoscopy images using supervised machine learning and structural analysis. Computers in Biology and Medicine, 2014, 44, 144-157. | 3.9 | 63 |
| 24 | Methodology for diagnosing of skin cancer on images of dermatologic spots by spectral analysis. Biomedical Optics Express, 2015, 6, 3876. | 1.5 | 21 |
| 25 | Redesigning EHRs and Clinical Decision Support Systems for the Precision Medicine Era. , 2015, , . | | 2 |
| 26 | Streak Detection in Dermoscopic Color Images Using Localized Radial Flux of Principal Intensity Curvature. , 2015, , 227-246. | | 12 |
| 27 | A Bioinspired Color Representation for Dermoscopy Image Analysis. Digital Imaging and Computer Vision Series, 2015, , 23-66. | 0.1 | 4 |
| 28 | Whereâ€™s the Lesion?: Variability in Human and Automated Segmentation of Dermoscopy Images of Melanocytic Skin Lesions. Digital Imaging and Computer Vision Series, 2015, , 67-95. | 0.1 | 6 |
| 29 | Toward a Robust Analysis of Dermoscopy Images Acquired under Different Conditions. , 2015, , 17-38. | | 59 |
| 30 | Whereâ€™s the Lesion?: Variability in Human and Automated Segmentation of Dermoscopy Images of Melanocytic Skin Lesions. , 2015, , 83-112. | | 2 |
| 31 | A State-of-the-Art Survey on Lesion Border Detection in Dermoscopy Images. , 2015, , 113-146. | | 18 |
| 33 | Pigmented skin lesion computerized analysis via mobile devices. , 2015, , . | | 2 |
| 34 | Global Pattern Classification in Dermoscopic Images. , 2015, , 199-226. | | 5 |
| 35 | Dermoscopy Image Assessment Based on Perceptible Color Regions. , 2015, , 247-262. | | 2 |
| 36 | A Bioinspired Color Representation for Dermoscopy Image Analysis. , 2015, , 39-82. | | 1 |
| 37 | A Novel Framework for Supervised Mobile Assessment and Risk Triage of Skin Lesions. , 2015, , . | | 1 |
| 38 | Digital image processing: clinical applications and challenges in cosmetics. , 2015, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 39 | Computer-Aided Decision Support for Melanoma Detection Applied on Melanocytic and Nonmelanocytic Skin Lesions: A Comparison of Two Systems Based on Automatic Analysis of Dermoscopic Images. BioMed Research International, 2015, 2015, 1-8. | 0.9 | 15 |
| 40 | Novel Method for Border Irregularity Assessment in Dermoscopic Color Images. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-11. | 0.7 | 19 |
| 41 | Diagnosis of skin cancer by correlation and complexity analyses of damaged DNA. Oncotarget, 2015, 6, 42623-42631. | 0.8 | 53 |
| 42 | Adaptive segmentation based on multi-classification model for dermoscopy images. Frontiers of Computer Science, 2015, 9, 720-728. | 1.6 | 0 |
| 43 | Segmentation of skin cancer images using an extension of Chan and Vese model. , 2015, , . | | 4 |
| 44 | Pigmented Nevi Risk Assessment Based on the Correlation Dimension of the Associated Lesion's Attractor. , 2015, , . | | 0 |
| 45 | Melanoma detection algorithm based on feature fusion. , 2015, 2015, 2653-6. | | 25 |
| 46 | The feasibility of using manual segmentation in a multifeature computer-aided diagnosis system for classification of skin lesions: a retrospective comparative study. BMJ Open, 2015, 5, e007823-e007823. | 0.8 | 3 |
| 47 | Automatic classification of skin lesions using geometrical measurements of adaptive neighborhoods and local binary patterns. , 2015, , . | | 3 |
| 48 | Fuzzy Based Support System for Melanoma Diagnosis. Lecture Notes in Computer Science, 2015, , 235-246. | 1.0 | 0 |
| 49 | A clinically oriented system for melanoma diagnosis using a color representation. , 2015, 2015, 7462-5. | | 4 |
| 50 | Medical image analysis for cancer management in natural computing framework. Information Sciences, 2015, 306, 111-131. | 4.0 | 58 |
| 51 | Exploring Robust Diagnostic Signatures for Cutaneous Melanoma Utilizing Genetic and Imaging Data. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 190-198. | 3.9 | 14 |
| 52 | Enhancing classification accuracy utilizing globules and dots features in digital dermoscopy. Computer Methods and Programs in Biomedicine, 2015, 118, 124-133. | 2.6 | 38 |
| 53 | High-Level Intuitive Features (HLIFs) for Intuitive Skin Lesion Description. IEEE Transactions on Biomedical Engineering, 2015, 62, 820-831. | 2.5 | 97 |
| 54 | MED-NODE: A computer-assisted melanoma diagnosis system using non-dermoscopic images. Expert Systems With Applications, 2015, 42, 6578-6585. | 4.4 | 241 |
| 56 | Ensemble approach for differentiation of malignant melanoma. Proceedings of SPIE, 2015, , . | 0.8 | 6 |
| 57 | Automatic differentiation of melanoma from dysplastic nevi. Computerized Medical Imaging and Graphics, 2015, 43, 44-52. | 3.5 | 84 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 58 | Consistency and Standardization of Color in Medical Imaging: a Consensus Report. Journal of Digital Imaging, 2015, 28, 41-52. | 1.6 | 78 |
| 59 | Artificial intelligence for closed-loop ventilation therapy with hemodynamic control using the open lung concept. International Journal of Intelligent Computing and Cybernetics, 2015, 8, 50-68. | 1.6 | 16 |
| 60 | Pattern Classification for Dermoscopic Images Based on Structure Textons and Bag-of-Features Model. Lecture Notes in Computer Science, 2015, , 34-45. | 1.0 | 0 |
| 61 | Texture descriptors based on adaptive neighborhoods for classification of pigmented skin lesions. Journal of Electronic Imaging, 2015, 24, 061104. | 0.5 | 6 |
| 62 | Color and Texture Influence on Computer-Aided Diagnosis of Dermatological Ulcers. , 2015, , . | | 4 |
| 63 | Automatic classification of skin lesions using color mathematical morphology-based texture descriptors. , 2015, , . | | 4 |
| 64 | A new risk assessment methodology for dermoscopic skin lesion images. , 2015, , . | | 4 |
| 65 | A high performance algorithm to diagnosis of skin lesions deterioration in dermoscopic images using new feature extraction. , 2015, , . | | 5 |
| 67 | Divergence-based colour features for melanoma detection. , 2015, , . | | 10 |
| 68 | From photography to microbiology: Eigenbiome models for skin appearance. , 2015, , . | | 2 |
| 70 | From Image to Information. , 2016, , 519-535. | | 1 |
| 71 | Incorporating Colour Information for Computer-Aided Diagnosis of Melanoma from Dermoscopy Images: A Retrospective Survey and Critical Analysis. International Journal of Biomedical Imaging, 2016, 2016, 1-18. | 3.0 | 18 |
| 72 | Automatic Classification of Specific Melanocytic Lesions Using Artificial Intelligence. BioMed Research International, 2016, 2016, 1-17. | 0.9 | 34 |
| 73 | Skin lesion segmentation in clinical images using deep learning. , 2016, , . | | 111 |
| 74 | Skin lesion segmentation using Gray Level Co-occurrence Matrix. , 2016, , . | | 6 |
| 75 | A novel approach of black skin lesion images segmentation based on MLP Neural Network. , 2016, , . | | 5 |
| 76 | Lesion border detection using deep learning. , 2016, , . | | 15 |
| 77 | Classification of skin cancer images using local binary pattern and SVM classifier. AIP Conference Proceedings, 2016, , . | 0.3 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 78 | Set of descriptors for skin cancer diagnosis using non-dermoscopic color images. , 2016, , . | | 14 |
| 79 | Wavelet-based energy features for diagnosis of melanoma from dermoscopic images. International Journal of Biomedical Engineering and Technology, 2016, 20, 243. | 0.2 | 12 |
| 80 | Classification of melanoma lesions using sparse coded features and random forests. Proceedings of SPIE, 2016, , . | 0.8 | 9 |
| 81 | Efficient and Effective Automated Digital Hair Removal from Dermoscopy Images. Mathematical Morphology - Theory and Applications, 2016, 1, . | 0.6 | 4 |
| 82 | Clinically inspired analysis of dermoscopy images using a generative model. Computer Vision and Image Understanding, 2016, 151, 124-137. | 3.0 | 16 |
| 83 | Insect antimicrobial peptides: potential tools for the prevention of skin cancer. Applied Microbiology and Biotechnology, 2016, 100, 7397-7405. | 1.7 | 56 |
| 84 | Deep features to classify skin lesions. , 2016, , . | | 168 |
| 85 | Automatic detection of melanoma using broad extraction of features from digital images. , 2016, 2016, 1357-1360. | | 27 |
| 86 | Melanoma detection by analysis of clinical images using convolutional neural network. , 2016, 2016, 1373-1376. | | 194 |
| 87 | A Novel Approach to Segment Skin Lesions in Dermoscopic Images Based on a Deformable Model. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 615-623. | 3.9 | 135 |
| 88 | Differential diagnosis of squamous cell carcinoma in situ using skin histopathological images. Computers in Biology and Medicine, 2016, 70, 23-39. | 3.9 | 12 |
| 89 | Melanoma detection using a mobile phone app. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 90 | A system for the detection of melanomas in dermoscopy images using shape and symmetry features. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 127-137. | 1.3 | 37 |
| 91 | Hybrid threshold optimization between global image and local regions in image segmentation for melasma severity assessment. Multidimensional Systems and Signal Processing, 2017, 28, 977-994. | 1.7 | 9 |
| 92 | An expert system for selecting wart treatment method. Computers in Biology and Medicine, 2017, 81, 167-175. | 3.9 | 112 |
| 93 | Computer-aided diagnosis: A survey with bibliometric analysis. International Journal of Medical Informatics, 2017, 101, 58-67. | 1.6 | 63 |
| 94 | Nonlinear Analysis of the Contour Boundary Irregularity of Skin Lesion Using Lyapunov Exponent and K-S Entropy. Journal of Medical and Biological Engineering, 2017, 37, 409-419. | 1.0 | 8 |
| 95 | Automatic Skin Lesion Segmentation Using Deep Fully Convolutional Networks With Jaccard Distance. IEEE Transactions on Medical Imaging, 2017, 36, 1876-1886. | 5.4 | 463 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 96 | Extraction of skin lesions from non-dermoscopic images for surgical excision of melanoma. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1021-1030. | 1.7 | 62 |
| 97 | Development of a clinically oriented system for melanoma diagnosis. Pattern Recognition, 2017, 69, 270-285. | 5.1 | 53 |
| 98 | Melanoma Detection Based on Mahalanobis Distance Learning and Constrained Graph Regularized Nonnegative Matrix Factorization. , 2017, , . | | 12 |
| 99 | Skin melanoma segmentation using recurrent and convolutional neural networks. , 2017, , . | | 55 |
| 100 | Hybrid dermoscopy image classification framework based on deep convolutional neural network and Fisher vector. , 2017, , . | | 37 |
| 101 | A Health Decision Support System for Disease Diagnosis Based on Wearable Medical Sensors and Machine Learning Ensembles. IEEE Transactions on Multi-Scale Computing Systems, 2017, 3, 228-241. | 2.5 | 84 |
| 102 | Melanoma Classification on Dermoscopy Images Using a Neural Network Ensemble Model. IEEE Transactions on Medical Imaging, 2017, 36, 849-858. | 5.4 | 201 |
| 103 | Automatic diagnosis of melanoma using linear and nonlinear features from digital image. , 2017, 2017, 4281-4284. | | 12 |
| 104 | Hair segmentation using adaptive threshold from edge and branch length measures. Computers in Biology and Medicine, 2017, 89, 314-324. | 3.9 | 19 |
| 105 | Multispectral skin patterns analysis using fractal methods. Expert Systems With Applications, 2017, 88, 318-326. | 4.4 | 4 |
| 106 | Detection of Malignant Melanomas in Dermoscopic Images Using Convolutional Neural Network with Transfer Learning. Communications in Computer and Information Science, 2017, , 404-414. | 0.4 | 8 |
| 107 | Bagged textural and color features for melanoma skin cancer detection in dermoscopic and standard images. Expert Systems With Applications, 2017, 90, 101-110. | 4.4 | 58 |
| 108 | Automatic discrimination of actinic keratoses from clinical photographs. Computers in Biology and Medicine, 2017, 88, 50-59. | 3.9 | 19 |
| 109 | A simple weighted thresholding method for the segmentation of pigmented skin lesions in macroscopic images. Pattern Recognition, 2017, 64, 92-104. | 5.1 | 52 |
| 110 | Deep learning for skin lesion segmentation. , 2017, , . | | 29 |
| 111 | A multispectral analysis of black skin color images for linea nigra segmentation. , 2017, , . | | 0 |
| 112 | Segmentation of dermoscopy images based on fully convolutional neural network. , 2017, , . | | 13 |
| 113 | Classification of multiple diseases based on wavelet features. Journal of Engineering, 2017, 2017, 110-118. | 0.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 114 | Computer-Aided Detection: Cost Effectiveness Analysis with Learning Model. , 2017, , . | | 1 |
| 115 | Comparison of computer systems and ranking criteria for automatic melanoma detection in dermoscopic images. PLoS ONE, 2017, 12, e0190112. | 1.1 | 11 |
| 116 | Bag-of-features based classification of dermoscopic images. , 2017, , . | | 15 |
| 117 | Performance of a computer-aided digital dermoscopic image analyzer for melanoma detection in 1,076 pigmented skin lesion biopsies. Journal of the American Academy of Dermatology, 2018, 78, 927-934.e6. | 0.6 | 16 |
| 118 | Computer-Aided Diagnosis of Melanoma Skin Cancer: A Review. Lecture Notes in Networks and Systems, 2018, , 63-73. | 0.5 | 7 |
| 119 | Recent Deep Learning Methods for Melanoma Detection: A Review. Communications in Computer and Information Science, 2018, , 118-132. | 0.4 | 17 |
| 120 | Diagnosis of a dermatological lesion using intelligent feature selection technique. Imaging Science Journal, 2018, 66, 303-313. | 0.2 | 3 |
| 121 | A review on smartphone skin cancer diagnosis apps in evaluation and benchmarking: coherent taxonomy, open issues and recommendation pathway solution. Health and Technology, 2018, 8, 223-238. | 2.1 | 74 |
| 122 | Fusion of structural and textural features for melanoma recognition. IET Computer Vision, 2018, 12, 185-195. | 1.3 | 45 |
| 123 | A Systematic Review on Smartphone Skin Cancer Apps: Coherent Taxonomy, Motivations, Open Challenges and Recommendations, and New Research Direction. Journal of Circuits, Systems and Computers, 2018, 27, 1830003. | 1.0 | 22 |
| 124 | Drug delivery strategies for chemoprevention of <sc>UVB</sc>-induced skin cancer: A review. Photodermatology Photoimmunology and Photomedicine, 2018, 34, 60-68. | 0.7 | 21 |
| 125 | Clinical Skin Lesion Diagnosis Using Representations Inspired by Dermatologist Criteria. , 2018, , . | | 56 |
| 126 | DeepPCA Based Objective Function for Melanoma Detection. , 2018, , . | | 1 |
| 127 | Visual inspection and dermoscopy, alone or in combination, for diagnosing keratinocyte skin cancers in adults. The Cochrane Library, 2018, 2018, CD011901. | 1.5 | 32 |
| 128 | Dermoscopy, with and without visual inspection, for diagnosing melanoma in adults. The Cochrane Library, 2018, 2018, CD011902. | 1.5 | 89 |
| 129 | Segmentation of Melanoma Skin Lesions Using Anisotropic Diffusion and Adaptive Thresholding. , 2018, , . | | 5 |
| 130 | Skin lesion segmentation in dermoscopy images via deep full resolution convolutional networks. Computer Methods and Programs in Biomedicine, 2018, 162, 221-231. | 2.6 | 309 |
| 132 | Data augmentation importance for classification of skin lesions via deep learning. , 2018, , . | | 40 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 133 | eSkin: Study on the Smartphone Application for Early Detection of Malignant Melanoma. Wireless Communications and Mobile Computing, 2018, 2018, 1-11. | 0.8 | 20 |
| 134 | Deep residual network with regularised fisher framework for detection of melanoma. IET Computer Vision, 2018, 12, 1096-1104. | 1.3 | 38 |
| 135 | Melanoma recognition in dermoscopy images using lesion's peripheral region information. Computer Methods and Programs in Biomedicine, 2018, 163, 143-153. | 2.6 | 30 |
| 136 | Smart Healthcare. Foundations and Trends in Electronic Design Automation, 2018, 12, 401-166. | 1.0 | 25 |
| 137 | Classification of non-tumorous skin pigmentation disorders using voting based probabilistic linear discriminant analysis. Computers in Biology and Medicine, 2018, 99, 123-132. | 3.9 | 18 |
| 138 | A Survey of Feature Extraction in Dermoscopy Image Analysis of Skin Cancer. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1096-1109. | 3.9 | 121 |
| 139 | An Improved Skin Lesion Matching Scheme in Total Body Photography. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 586-598. | 3.9 | 17 |
| 140 | Melanoma Recognition in Dermoscopy Images via Aggregated Deep Convolutional Features. IEEE Transactions on Biomedical Engineering, 2019, 66, 1006-1016. | 2.5 | 172 |
| 141 | Recent advancement in the early detection of melanoma using computerized tools: An image analysis perspective. Skin Research and Technology, 2019, 25, 129-141. | 0.8 | 13 |
| 142 | Fully Convolutional Neural Networks to Detect Clinical Dermoscopic Features. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 578-585. | 3.9 | 38 |
| 143 | Artificial Intelligence Approach in Melanoma. , 2019, , 599-628. | | 5 |
| 144 | Dense-Residual Network With Adversarial Learning for Skin Lesion Segmentation. IEEE Access, 2019, 7, 77037-77051. | 2.6 | 28 |
| 145 | Region Extraction and Classification of Skin Cancer: A Heterogeneous framework of Deep CNN Features Fusion and Reduction. Journal of Medical Systems, 2019, 43, 289. | 2.2 | 167 |
| 146 | Accurate Segmentation of Dermoscopic Images based on Local Binary Pattern Clustering. , 2019, , . | | 4 |
| 147 | Skin Lesion Segmentation in Dermoscopic Images with Combination of YOLO and GrabCut Algorithm. Diagnostics, 2019, 9, 72. | 1.3 | 175 |
| 148 | Computing rational border curves of melanoma and other skin lesions from medical images with bat algorithm. , 2019, , . | | 2 |
| 149 | Skin Cancer Diagnostics with an All-Inclusive Smartphone Application. Symmetry, 2019, 11, 790. | 1.1 | 28 |
| 150 | Dense pooling layers in fully convolutional network for skin lesion segmentation. Computerized Medical Imaging and Graphics, 2019, 78, 101658. | 3.5 | 35 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 151 | Computational texture features of dermoscopic images and their link to the descriptive terminology: A survey. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 182, 105049. | 2.6 | 11 |
| 152 | Segmentation of Lesion in Dermoscopy Images Using Dense-Residual Network with Adversarial Learning. , 2019, , . | | 4 |
| 153 | Hybrid Modified Firefly Algorithm for Border Detection of Skin Lesions in Medical Imaging. , 2019, , . | | 8 |
| 154 | Kernel sparse representation based model for skin lesions segmentation and classification. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 182, 105038. | 2.6 | 35 |
| 155 | Dermoscopy Image Analysis: Overview and Future Directions. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 474-478. | 3.9 | 121 |
| 156 | Hyperspectral imaging in automated digital dermoscopy screening for melanoma. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 214-222. | 1.1 | 27 |
| 157 | Early Detection of Skin Cancer Using Melanoma SegmentationÂtechnique. <i>Journal of Medical Systems</i> , 2019, 43, 190. | 2.2 | 56 |
| 158 | Artificial Intelligence Approach in Melanoma. , 2019, , 1-31. | | 5 |
| 159 | Naive Bayes Learning of Dermoscopy Images. <i>Lecture Notes in Computer Science</i> , 2019, , 294-304. | 1.0 | 0 |
| 160 | Digital hair segmentation using hybrid convolutional and recurrent neural networks architecture. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 177, 17-30. | 2.6 | 25 |
| 161 | Automated detection of nonmelanoma skin cancer using digital images: a systematic review. <i>BMC Medical Imaging</i> , 2019, 19, 21. | 1.4 | 59 |
| 162 | Highâ€resolution quantitative acoustic microscopy of cutaneous carcinoma and melanoma: Comparison with histology. <i>Skin Research and Technology</i> , 2019, 25, 662-671. | 0.8 | 1 |
| 163 | Decision tree-based methodology to select a proper approach for wart treatment. <i>Computers in Biology and Medicine</i> , 2019, 108, 400-409. | 3.9 | 25 |
| 164 | Neutrosophic set in medical image clustering. , 2019, , 167-187. | | 4 |
| 165 | Firefly Algorithm Approach For Rational BÃ©zier Border Reconstruction of Skin Lesions from Macroscopic Medical Images. , 2019, , . | | 1 |
| 166 | RethNet: Object-by-Object Learning for Detecting Facial Skin Problems. , 2019, , . | | 2 |
| 167 | Dangerousness of dysplastic nevi: a Multiple Instance Learning Solution for Early Diagnosis. , 2019, , . | | 21 |
| 168 | Neutrosophic sets in dermoscopic medical image segmentation. , 2019, , 229-243. | | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 169 | Segmentation of skin lesions in dermoscopy images using fuzzy classification of pixels and histogram thresholding. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 168, 11-19. | 2.6 | 63 |
| 170 | U-Net Based Segmentation and Multiple Feature Extraction of Dermoscopic Images for Efficient Diagnosis of Melanoma. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019, , 81-101. | 0.5 | 2 |
| 171 | Sampling with level set for pigmented skin lesion segmentation. <i>Signal, Image and Video Processing</i> , 2019, 13, 813-821. | 1.7 | 8 |
| 172 | Improving the performance of convolutional neural network for skin image classification using the response of image analysis filters. <i>Neural Computing and Applications</i> , 2019, 31, 1805-1822. | 3.2 | 11 |
| 173 | Improving Dermoscopic Image Segmentation With Enhanced Convolutional-Deconvolutional Networks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 519-526. | 3.9 | 156 |
| 174 | Automated skin lesion division utilizing Gabor filters based on shark smell optimizing method. <i>Evolving Systems</i> , 2020, 11, 589-598. | 2.4 | 5 |
| 175 | Recent advances in hyperspectral imaging for melanoma detection. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2020, 12, e1465. | 2.1 | 31 |
| 176 | Real-Time Mobile-Phone-Aided Melanoma Skin Lesion Detection Using Triangulation Technique. <i>International Journal of E-Health and Medical Communications</i> , 2020, 11, 9-31. | 1.4 | 1 |
| 177 | Computer-aided classification of suspicious pigmented lesions using wide-field images. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105631. | 2.6 | 31 |
| 178 | Skin Lesion Segmentation Based on Multi-Scale Attention Convolutional Neural Network. <i>IEEE Access</i> , 2020, 8, 122811-122825. | 2.6 | 22 |
| 179 | A review ABCDE Evaluated the Model for Decision by Dermatologists for Skin Lesions using Bee Colony. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 745, 012098. | 0.3 | 2 |
| 180 | A Measurement Software for Professional Training in Early Detection of Melanoma. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4351. | 1.3 | 1 |
| 181 | A multi-class skin Cancer classification using deep convolutional neural networks. <i>Multimedia Tools and Applications</i> , 2020, 79, 28477-28498. | 2.6 | 122 |
| 182 | Deep Semantic Segmentation and Multi-Class Skin Lesion Classification Based on Convolutional Neural Network. <i>IEEE Access</i> , 2020, 8, 129668-129678. | 2.6 | 42 |
| 183 | Microbotulinum: A Quantitative Evaluation of Aesthetic Skin Improvement in 62 Patients. <i>Plastic and Reconstructive Surgery</i> , 2020, 146, 987-994. | 0.7 | 9 |
| 184 | An effective approach for the diagnosis of melanoma using the sparse auto-encoder for features detection and the SVM for classification. , 2020, , . | | 8 |
| 185 | Melanoma Diagnosis Using Deep Learning and Fuzzy Logic. <i>Diagnostics</i> , 2020, 10, 577. | 1.3 | 60 |
| 186 | Feature Selection of Non-Dermoscopic Skin Lesion Images for Nevus and Melanoma Classification. <i>Computation</i> , 2020, 8, 41. | 1.0 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 187 | Skin Lesion Segmentation from Dermoscopic Images Using Convolutional Neural Network. Sensors, 2020, 20, 1601. | 2.1 | 77 |
| 188 | Fully Automated Approach for Early Detection of Pigmented Skin Lesion Diagnosis Using ABCD. Journal of Healthcare Informatics Research, 2020, 4, 151-173. | 5.3 | 10 |
| 189 | Skin Lesion Segmentation in Dermoscopic Images With Ensemble Deep Learning Methods. IEEE Access, 2020, 8, 4171-4181. | 2.6 | 177 |
| 190 | Convolutional descriptors aggregation via cross-net for skin lesion recognition. Applied Soft Computing Journal, 2020, 92, 106281. | 4.1 | 37 |
| 191 | DSNet: Automatic dermoscopic skin lesion segmentation. Computers in Biology and Medicine, 2020, 120, 103738. | 3.9 | 105 |
| 192 | Hyperspectral imaging as a diagnostic tool to differentiate between amalgam tattoos and other dark pigmented intraoral lesions. Journal of Biophotonics, 2021, 14, e202000424. | 1.1 | 4 |
| 193 | Wavelet-based logistic discriminator of dermoscopy images. Expert Systems With Applications, 2021, 167, 113760. | 4.4 | 6 |
| 194 | Melanoma Detection Using Spatial and Spectral Analysis on Superpixel Graphs. Journal of Digital Imaging, 2021, 34, 162-181. | 1.6 | 11 |
| 195 | Unsupervised Feature Elimination via Generative Adversarial Networks: Application to Hair Removal in Melanoma Classification. IEEE Access, 2021, 9, 42610-42620. | 2.6 | 15 |
| 196 | An Integrated Platform for Skin Cancer Heterogenous and Multilayered Data Management. Journal of Medical Systems, 2021, 45, 10. | 2.2 | 4 |
| 197 | Detection, Analysis and Classification of Skin Lesions: Challenges and Opportunities. Advances in Intelligent Systems and Computing, 2021, , 197-214. | 0.5 | 2 |
| 198 | Skin Lesion Classification using Bag-of-3D-Features. , 2021, , . | | 1 |
| 199 | ASCU-Net: Attention Gate, Spatial and Channel Attention U-Net for Skin Lesion Segmentation. Diagnostics, 2021, 11, 501. | 1.3 | 67 |
| 201 | The development of skin lesion detection application in smart handheld devices using deep neural networks. Multimedia Tools and Applications, 2022, 81, 41579-41610. | 2.6 | 5 |
| 202 | Artificial intelligence in dermatology and healthcare: An overview. Indian Journal of Dermatology, Venereology and Leprology, 2021, 87, 1-11. | 0.2 | 16 |
| 203 | A Simplified Approach for Melanoma Skin Disease Identification. , 2021, , . | | 0 |
| 204 | Fast fully automatic detection, classification and 3D reconstruction of pulmonary nodules in CT images by local image feature analysis. Biomedical Signal Processing and Control, 2021, 68, 102790. | 3.5 | 13 |
| 205 | Polymeric micelle mediated follicular delivery of spironolactone: Targeting the mineralocorticoid receptor to prevent glucocorticoid-induced activation and delayed cutaneous wound healing. International Journal of Pharmaceutics, 2021, 604, 120773. | 2.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 206 | Machine Learning and Deep Learning Methods for Skin Lesion Classification and Diagnosis: A Systematic Review. <i>Diagnostics</i> , 2021, 11, 1390. | 1.3 | 117 |
| 207 | ANN-based diagnosis method for skin cancers using dermoscopic images. <i>Highlights in BioScience</i> , 0, , bs202108. | 0.0 | 0 |
| 208 | The Study of Usefulness of a Set of Fractal Parameters to Build Classes of Disease Units Based on Images of Pigmented Skin Lesions. <i>Diagnostics</i> , 2021, 11, 1773. | 1.3 | 2 |
| 209 | Incorporating clinical knowledge with constrained classifier chain into a multimodal deep network for melanoma detection. <i>Computers in Biology and Medicine</i> , 2021, 137, 104812. | 3.9 | 22 |
| 210 | Robust Skin Disease Classification by Distilling Deep Neural Network Ensemble for the Mobile Diagnosis of Herpes Zoster. <i>IEEE Access</i> , 2021, 9, 20156-20169. | 2.6 | 24 |
| 211 | Computer-assisted diagnosis techniques (dermoscopy and spectroscopy-based) for diagnosing skin cancer in adults. <i>The Cochrane Library</i> , 2018, 2018, CD013186. | 1.5 | 65 |
| 212 | Melasma Image Segmentation Using Extreme Learning Machine. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2015, , 369-377. | 1.5 | 5 |
| 213 | Principal Axes-Based Asymmetry Assessment Methodology for Skin Lesion Image Analysis. <i>Lecture Notes in Computer Science</i> , 2014, , 21-31. | 1.0 | 11 |
| 214 | Automated Detection of Streaks in Dermoscopy Images. <i>IFIP Advances in Information and Communication Technology</i> , 2015, , 45-60. | 0.5 | 5 |
| 215 | Multi-resolution-Tract CNN with Hybrid Pretrained and Skin-Lesion Trained Layers. <i>Lecture Notes in Computer Science</i> , 2016, , 164-171. | 1.0 | 89 |
| 216 | Local Features Applied to Dermoscopy Images: Bag-of-Features versus Sparse Coding. <i>Lecture Notes in Computer Science</i> , 2017, , 528-536. | 1.0 | 3 |
| 217 | Binary Decision Trees for Melanoma Diagnosis. <i>Lecture Notes in Computer Science</i> , 2013, , 374-385. | 1.0 | 4 |
| 218 | Pigment Network Detection and Analysis. <i>Series in Bioengineering</i> , 2014, , 1-22. | 0.3 | 2 |
| 220 | Pattern Analysis in Dermoscopic Images. <i>Series in Bioengineering</i> , 2014, , 23-48. | 0.3 | 25 |
| 221 | A Bag-of-Features Approach for the Classification of Melanomas in Dermoscopy Images: The Role of Color and Texture Descriptors. <i>Series in Bioengineering</i> , 2014, , 49-69. | 0.3 | 23 |
| 222 | Automatic Diagnosis of Melanoma Based on the 7-Point Checklist. <i>Series in Bioengineering</i> , 2014, , 71-107. | 0.3 | 13 |
| 223 | Dermoscopy Image Processing for Chinese. <i>Series in Bioengineering</i> , 2014, , 109-137. | 0.3 | 3 |
| 224 | Automatic Detection of Blue-White Veil by Discrete Colour Matching in Dermoscopy Images. <i>Lecture Notes in Computer Science</i> , 2013, 16, 453-460. | 1.0 | 21 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 227 | Accurate and Scalable System for Automatic Detection of Malignant Melanoma. , 2015, , 309-360. | | 20 |
| 228 | Spectral indexes obtained by implementation of the fractional Fourier and Hermite transform for the diagnosis of malignant melanoma. Biomedical Optics Express, 2019, 10, 6043. | 1.5 | 3 |
| 229 | Automatic skin lesion segmentation with optimal colour channel from dermoscopic images. ScienceAsia, 2014, 40S, 1. | 0.2 | 6 |
| 230 | Data Augmentation Using Adversarial Image-to-Image Translation for the Segmentation of Mobile-Acquired Dermatological Images. Journal of Imaging, 2021, 7, 2. | 1.7 | 6 |
| 231 | Automatic Detection of Malignant Melanoma using Macroscopic Images. Journal of Medical Signals and Sensors, 2014, 4, 281. | 0.5 | 44 |
| 232 | Pigmented Skin Lesion Diagnosis by Automated Imaging System. Journal of Bioengineering & Biomedical Science, 2015, 06, . | 0.2 | 2 |
| 233 | Organizational Learning for Intelligence Amplification Adoption: Lessons from a Clinical Decision Support System Adoption Project. Information Systems Frontiers, 2022, 24, 731-744. | 4.1 | 11 |
| 234 | Melanocytic Lesions Screening through Particle Swarm Optimization. Advances in Computational Intelligence and Robotics Book Series, 2014, , 355-384. | 0.4 | 3 |
| 235 | Automated Detection of New or Evolving Melanocytic Lesions Using a 3D Body Model. Lecture Notes in Computer Science, 2014, 17, 593-600. | 1.0 | 4 |
| 236 | Automated Imaging System for Pigmented Skin Lesion Diagnosis. International Journal of Advanced Computer Science and Applications, 2016, 7, . | 0.5 | 6 |
| 237 | Resolution Invariant Neural Classifiers for Dermoscopy Images of Melanoma. Lecture Notes in Computer Science, 2017, , 175-186. | 1.0 | 0 |
| 238 | Graph Geodesics to Find Progressively Similar Skin Lesion Images. Lecture Notes in Computer Science, 2017, , 31-41. | 1.0 | 1 |
| 239 | Skin lesion boundary segmentation with fully automated deep extreme cut methods. , 2019, , . | | 2 |
| 241 | Segmentation and classification of consumer-grade and dermoscopic skin cancer images using hybrid textural analysis. Journal of Medical Imaging, 2019, 6, 1. | 0.8 | 3 |
| 242 | Deep Learning Models for Segmentation of Mobile-Acquired Dermatological Images. Lecture Notes in Computer Science, 2020, , 228-237. | 1.0 | 2 |
| 244 | ANALYSES OF SKIN LESION AREAS AFTER THRESHOLDING. Informatyka Automatyka Pomiarów W Gospodarce I Ochronie Ąšrodowiska, 2020, 10, 9-12. | 0.2 | 0 |
| 245 | An Efficient Detection Framework for Linear Skin Lesions with Pigmentary Disorders. , 2020, , . | | 0 |
| 246 | Weakly and Semi-supervised Deep Level Set Network for Automated Skin Lesion Segmentation. Smart Innovation, Systems and Technologies, 2020, , 145-155. | 0.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 247 | Classification of Ten Skin Lesion Classes: Hierarchical KNN versus Deep Net. Communications in Computer and Information Science, 2020, , 86-98. | 0.4 | 2 |
| 248 | Fairness of Classifiers Across Skin Tones in Dermatology. Lecture Notes in Computer Science, 2020, , 320-329. | 1.0 | 37 |
| 249 | A Review on State-of-the-Art Computer-Based Approaches for the Early Recognition of Malignant Melanoma. Studies in Computational Intelligence, 2020, , 81-101. | 0.7 | 2 |
| 250 | Use of imaging techniques for melanocytic naevi and basal cell carcinoma in integrative analysis (Review). Experimental and Therapeutic Medicine, 2020, 20, 78-86. | 0.8 | 13 |
| 251 | Automated CAD System for Skin Lesion Diagnosis: A Review. Lecture Notes in Bioengineering, 2021, , 295-320. | 0.3 | 2 |
| 252 | Automatic Detection of Malignant Melanoma using Macroscopic Images. Journal of Medical Signals and Sensors, 2014, 4, 281-90. | 0.5 | 11 |
| 253 | System for neural network recognition of malignant pigmented skin neoplasms with image pre-processing. Journal of Physics: Conference Series, 2021, 2052, 012023. | 0.3 | 0 |
| 254 | Effectiveness of Data Augmentation for classification of Melanoma using Deep Convolutional Neural Network. , 2021, , . | | 0 |
| 255 | A Convolutional Neural Network for Skin Lesion Segmentation Using Double U-Net Architecture. Intelligent Automation and Soft Computing, 2022, 33, 1407-1421. | 1.6 | 4 |
| 256 | A novel approach for skin lesion symmetry classification with a deep learning model. Computers in Biology and Medicine, 2022, 145, 105450. | 3.9 | 13 |
| 257 | Efficacy of Deep Learning Approach for Automated Melanoma Detection. , 2021, , . | | 1 |
| 258 | Saliency-based segmentation of dermoscopic images using colour information. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2022, 10, 172-186. | 1.3 | 5 |
| 260 | DermaGenics - Early Detection of Melanoma using YOLOv5 Deep Convolutional Neural Networks. , 2022, , . | | 4 |
| 261 | Machine Learning Algorithm for Detection of Deadliest Forms of Skin Cancer. International Journal of Advanced Research in Science, Communication and Technology, 0, , 764-768. | 0.0 | 0 |
| 263 | Comparison of convolutional neural network architectures for robustness against common artefacts in dermoscopic images. Dermatology Practical and Conceptual, 0, , e2022126. | 0.5 | 1 |
| 264 | Dermoscopy and skin imaging light sources: a comparison and review of spectral power distribution and color consistency. Journal of Biomedical Optics, 2022, 27, . | 1.4 | 0 |
| 265 | An interpretable CNN-based CAD system for skin lesion diagnosis. Artificial Intelligence in Medicine, 2022, 132, 102370. | 3.8 | 3 |
| 266 | Skin Lesion Segmentation Using Recurrent Attentional Convolutional Networks. IEEE Access, 2022, 10, 94007-94018. | 2.6 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 267 | Multiple Instance Learning Using 3D Features for Melanoma Detection. IEEE Access, 2022, 10, 76296-76309. | 2.6 | 6 |
| 268 | Registration of polarimetric images for in vivo skin diagnostics. Journal of Biomedical Optics, 2022, 27, . | 1.4 | 8 |
| 269 | Skin lesion classification using multi-resolution empirical mode decomposition and local binary pattern. PLoS ONE, 2022, 17, e0274896. | 1.1 | 2 |
| 270 | Early Diagnosis of Melanoma by Augmenting Feature Extraction of Epidermis using Faster Region-Based Convolutional Neural Networks. , 2022, , . | | 1 |
| 271 | Malignant melanoma diagnosis applying a machine learning method based on the combination of nonlinear and texture features. Biomedical Signal Processing and Control, 2023, 80, 104300. | 3.5 | 4 |
| 272 | Genomic and proteomic findings in early melanoma and opportunities for early diagnosis. Experimental Dermatology, 2023, 32, 104-116. | 1.4 | 1 |
| 273 | Designing a new deep convolutional neural network for skin lesion recognition. Multimedia Tools and Applications, 2023, 82, 18907-18923. | 2.6 | 5 |
| 274 | Machine Learning Approaches for Skin Cancer Classification from Dermoscopic Images: A Systematic Review. Algorithms, 2022, 15, 438. | 1.2 | 16 |
| 275 | Deep neural networks and advanced computer vision algorithms in the early diagnosis of skin diseases. , 2023, , 47-81. | | 1 |
| 276 | Skin lesion analysis using generative adversarial networks: a review. Multimedia Tools and Applications, 2023, 82, 30065-30106. | 2.6 | 4 |
| 277 | Skin Cancer Classification Using Deep Spiking Neural Network. Journal of Digital Imaging, 2023, 36, 1137-1147. | 1.6 | 19 |
| 278 | iU-Net: a hybrid structured network with a novel feature fusion approach for medical image segmentation. BioData Mining, 2023, 16, . | 2.2 | 3 |
| 279 | AMCC-Net: An asymmetric multi-cross convolution for skin lesion segmentation on dermoscopic images. Engineering Applications of Artificial Intelligence, 2023, 122, 106154. | 4.3 | 7 |
| 280 | Multi-class Skin Cancer Classification Architecture Based on Deep Convolutional Neural Network. , 2022, , . | | 8 |
| 281 | A survey, review, and future trends of skin lesion segmentation and classification. Computers in Biology and Medicine, 2023, 155, 106624. | 3.9 | 24 |
| 282 | Deep Learning Techniques Applied to Skin Lesion Classification: A Review. , 2022, , . | | 1 |
| 283 | The application of artificial intelligence in the detection of basal cell carcinoma: A systematic review. Journal of the European Academy of Dermatology and Venereology, 2023, 37, 1160-1167. | 1.3 | 3 |
| 284 | Skin Cancer Segmentation Based on Triangular Intuitionistic Fuzzy Sets. SN Computer Science, 2023, 4, . | 2.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 285 | Revisited Otsu Algorithm for Skin Cancer Segmentation. WSEAS Transactions on Information Science and Applications, 2023, 20, 50-58. | 0.2 | 0 |
| 286 | True digital hair removal with real value inpainting for improved dermoscopy based on image fusion. , 2023, , . | | 0 |
| 287 | Automated Skin Lesion Segmentation using VGG-UNet. , 2022, , . | | 1 |
| 288 | A Multi-Feature Fusion Framework for Automatic Skin Cancer Diagnostics. Diagnostics, 2023, 13, 1474. | 1.3 | 7 |
| 289 | Empirical wavelet transform-based fast deep convolutional neural network for detection and classification of melanoma. , 2023, , 237-250. | | 0 |
| 291 | Cloud-Based Service for Recognizing Pigmented Skin Lesions Using a Multimodal Neural Network System. Lecture Notes in Networks and Systems, 2023, , 401-409. | 0.5 | 0 |
| 301 | An Evaluation of Image Preprocessing in Skin Lesions Detection. Communications in Computer and Information Science, 2024, , 35-49. | 0.4 | 0 |
| 302 | Skin Cancer Diagnosis and Detection Using Deep Learning. , 2023, , . | | 0 |