

# Daniel Racoceanu

## List of Publications by Year in descending order

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Version: 2024-02-01

86  
papers

4,402  
citations

471061

17  
h-index

315357

38  
g-index

89  
all docs

89  
docs citations

89  
times ranked

5872  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Weakly Supervised Framework for Cancer Region Detection of Hepatocellular Carcinoma in Whole-Slide Pathologic Images Based on Multiscale Attention Convolutional Neural Network. American Journal of Pathology, 2022, 192, 553-563. | 1.9 | 11        |
| 2  | Tau protein discrete aggregates in Alzheimer's disease: neuritic plaques and tangles detection and segmentation using computational histopathology. , 2022, , .   |     | 4         |
| 3  | Innovative Deep Learning Approach for Biomedical Data Instantiation and Visualization. , 2021, , 171-196.   |     | 3         |
| 4  | Corn Crops Identification Using Multispectral Images from Unmanned Aircraft Systems. , 2021, , .  |     | 0         |
| 5  | Best Practice Recommendations for the Implementation of a Digital Pathology Workflow in the Anatomic Pathology Laboratory by the European Society of Digital and Integrative Pathology (ESDIP). Diagnostics, 2021, 11, 2167.        | 1.3 | 51        |
| 6  | Deep Learning for Semantic Segmentation vs. Classification in Computational Pathology: Application to Mitosis Analysis in Breast Cancer Grading. Frontiers in Bioengineering and Biotechnology, 2019, 7, 145.                       | 2.0 | 45        |
| 7  | Deep Learning in the Biomedical Applications: Recent and Future Status. Applied Sciences (Switzerland), 2019, 9, 1526.  | 1.3 | 120       |
| 8  | Classification of prostate cancer based on clinical and omics data using neural networks techniques to improve prognostic power.. Journal of Clinical Oncology, 2019, 37, e16569-e16569.  | 0.8 | 1         |
| 9  | Efficient deep learning model for mitosis detection using breast histopathology images. Computerized Medical Imaging and Graphics, 2018, 64, 29-40.   | 3.5 | 148       |
| 10 | Corn classification using Deep Learning with UAV imagery. An operational proof of concept. , 2018, , .  |     | 8         |
| 11 | Automated high-grade prostate cancer detection and ranking on whole slide images. , 2017, , .   |     | 1         |
| 12 | Comparison of semi-automated and manual methods to measure the volume of prostate cancer on magnetic resonance imaging. Diagnostic and Interventional Imaging, 2017, 98, 423-428.   | 1.8 | 17        |
| 13 | Diagnostic Assessment of Deep Learning Algorithms for Detection of Lymph Node Metastases in Women With Breast Cancer. JAMA - Journal of the American Medical Association, 2017, 318, 2199.  | 3.8 | 2,003     |
| 14 | A model of tumor architecture and spatial interactions with tumor microenvironment in breast carcinoma. , 2017, , .   |     | 1         |
| 15 | Spatial interaction analysis with graph based mathematical morphology for histopathology. , 2017, , .   |     | 0         |
| 16 | Gland segmentation in colon histology images: The glas challenge contest. Medical Image Analysis, 2017, 35, 489-502.  | 7.0 | 516       |
| 17 | Preface. Computerized Medical Imaging and Graphics, 2017, 61, 1.  | 3.5 | 0         |
| 18 | Notice of Removal: Relating quantitative ultrasound parameters to histologic texture parameters in cancerous human lymph nodes. , 2017, , .   |     | 1         |

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|----|--|------|-----------|
| 19 | Semantic knowledge for histopathological image analysis: from ontologies to processing portals and deep learning. , 2017, , .  |      | 1         |
| 20 | Tumor angiogenesis assessment using multi-fluorescent scans on murine slices by Markov random field framework. , 2017, , .   |      | 0         |
| 21 | Prostate cancer: computer-aided diagnosis on multiparametric MRI. , 2017, , .  |      | 1         |
| 22 | A structure-based approach for colon gland segmentation in digital pathology. , 2016, , .  |      | 3         |
| 23 | Semantic Integrative Digital Pathology: Insights into Microsemiological Semantics and Image Analysis Scalability. Pathobiology, 2016, 83, 148-155.   | 1.9  | 6         |
| 24 | Resource-Centered Distributed Processing of Large Histopathology Images. , 2016, , .   |      | 0         |
| 25 | Neurite Tracing With Object Process. IEEE Transactions on Medical Imaging, 2016, 35, 1443-1451.  | 5.4  | 15        |
| 26 | Towards semantic-driven high-content image analysis: An operational instantiation for mitosis detection in digital histopathology. Computerized Medical Imaging and Graphics, 2015, 42, 2-15.      | 3.5  | 13        |
| 27 | Statistically Representative Cloud of Particles for Crowd Flow Tracking. Lecture Notes in Computer Science, 2015, , 237-251.   | 1.0  | 0         |
| 28 | Reconstructing neuronal morphology from microscopy stacks using fast marching. , 2014, , .   |      | 16        |
| 29 | Improved marked point process priors for single neurite tracing. , 2014, , .   |      | 6         |
| 30 | Spectral band selection for mitosis detection in histopathology. , 2014, , .   |      | 6         |
| 31 | Multispectral band selection and spatial characterization: Application to mitosis detection in breast cancer histopathology. Computerized Medical Imaging and Graphics, 2014, 38, 390-402.         | 3.5  | 30        |
| 32 | Methods for Nuclei Detection, Segmentation, and Classification in Digital Histopathology: A Reviewâ€”Current Status and Future Potential. IEEE Reviews in Biomedical Engineering, 2014, 7, 97-114. | 13.1 | 526       |
| 33 | Unsupervised dense crowd detection by multiscale texture analysis. Pattern Recognition Letters, 2014, 44, 126-133.   | 2.6  | 21        |
| 34 | An analysis-synthesis approach for neurosphere modelisation under phase-contrast microscopy. , 2013, 2013, 3989-92.  |      | 0         |
| 35 | Mitosis detection in breast cancer histological images An ICPR 2012 contest. Journal of Pathology Informatics, 2013, 4, 8.   | 0.8  | 205       |
| 36 | Automated mitosis detection using texture, SIFT features and HMAX biologically inspired approach. Journal of Pathology Informatics, 2013, 4, 12.   | 0.8  | 75        |

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|----|---|-----|-----------|
| 37 | Multi-channels statistical and morphological features based mitosis detection in breast cancer histopathology. , 2013, 2013, 6091-4.  |     | 19        |
| 38 | A Stochastic Model for Automatic Extraction of 3D Neuronal Morphology. Lecture Notes in Computer Science, 2013, 16, 396-403.  | 1.0 | 5         |
| 39 | Nuclei extraction from histopathological images using a marked point process approach. Proceedings of SPIE, 2012, , .   | 0.8 | 9         |
| 40 | SVM-based Framework for the Robust Extraction of Objects from Histopathological Images Using Color, Texture, Scale and Geometry. , 2012, , .  |     | 5         |
| 41 | New Trends to Support Independence in Persons with Mild Dementia â€” A Mini-Review. Gerontology, 2012, 58, 554-563.   | 1.4 | 47        |
| 42 | pRBF Kernels: A Framework for the Incorporation of Task-Specific Properties into Support Vector Methods. , 2012, , .  |     | 1         |
| 43 | Neurosphere fate prediction: An analysis-synthesis approach for feature extraction. , 2012, , .   |     | 1         |
| 44 | Point set morphological filtering and semantic spatial configuration modeling: Application to microscopic image and bio-structure analysis. Pattern Recognition, 2012, 45, 2894-2911. | 5.1 | 25        |
| 45 | Online 3-D Tracking of Suspension Living Cells Imaged with Phase-Contrast Microscopy. IEEE Transactions on Biomedical Engineering, 2012, 59, 1924-1933.                               | 2.5 | 10        |
| 46 | Consciousness-driven model for visual attention. , 2011, , .  |     | 1         |
| 47 | Time-efficient sparse analysis of histopathological whole slide images. Computerized Medical Imaging and Graphics, 2011, 35, 579-591.   | 3.5 | 57        |
| 48 | Cognitive virtual microscopy: a cognition-driven visual explorer for histopathology â€” the MICO ANR TecSan 2010 initiative. BMC Proceedings, 2011, 5, .                              | 1.8 | 1         |
| 49 | Incorporating Prior-Knowledge in Support Vector Machines by Kernel Adaptation. , 2011, , .  |     | 3         |
| 50 | Automatic Area Classification in Peripheral Blood Smears. IEEE Transactions on Biomedical Engineering, 2010, 57, 1982-1990.   | 2.5 | 11        |
| 51 | Fusing visual and clinical information for lung tissue classification in high-resolution computed tomography. Artificial Intelligence in Medicine, 2010, 50, 13-21.                   | 3.8 | 71        |
| 52 | An Exploration Scheme for Large Images: Application to Breast Cancer Grading. , 2010, , .   |     | 5         |
| 53 | Bio-inspired computer visual system using GPU and Visual Pattern Assessment Language (ViPAL): Application on breast cancer prognosis. , 2010, , .                                     |     | 4         |
| 54 | Spatial representation and reasoning in breast cancer grading ontology. , 2010, , .   |     | 2         |

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|----|---|-----|-----------|
| 55 | Support Vector Methods for Sentence Level Machine Translation Evaluation. , 2010, , .   |     | 1         |
| 56 | Parkinson's disease prediction using diffusion-based atlas approach. , 2010, , .  |     | 0         |
| 57 | A cognitive virtual microscopic framework for knowlege-based exploration of large microscopic images in breast cancer histopathology. , 2009, 2009, 3697-702.     |     | 6         |
| 58 | A Cellular Neural Network as a Principal Component Analyzer. , 2009, , .  |     | 0         |
| 59 | Training the Recurrent neural network by the Fuzzy Min-Max algorithm for fault prediction. , 2009, , .  |     | 1         |
| 60 | Spatial relationships over sparse representations. , 2009, , .  |     | 2         |
| 61 | Predictive modelling of the monitoring function. A predictive modelling application for fault states in a manufacturing system. , 2009, , .                       |     | 0         |
| 62 | Cell Clumping Quantification and Automatic Area Classification in Peripheral Blood Smear Images. , 2009, , .  |     | 1         |
| 63 | Toward translational incremental similarity-based reasoning in breast cancer grading. Proceedings of SPIE, 2009, , .  | 0.8 | 0         |
| 64 | Knowledge-Guided Semantic Indexing of Breast Cancer Histopathology Images. , 2008, , .  |     | 24        |
| 65 | Automatic breast cancer grading of histopathological images. , 2008, 2008, 3052-5.  |     | 63        |
| 66 | The use of the medical ontology for a semantic-based fusion system in biomedical informatics Application to Alzheimer disease. , 2008, , .                        |     | 2         |
| 67 | Automatic working area classification in peripheral blood smears without cell central zone extraction. , 2008, 2008, 4074-7.                                      |     | 4         |
| 68 | Automatic working area classification in peripheral blood smears using spatial distribution features across scales. , 2008, , .                                   |     | 4         |
| 69 | Ontology for fMRI as a Biomedical Informatics Method. Magnetic Resonance in Medical Sciences, 2008, 7, 141-155.   | 1.1 | 5         |
| 70 | Finding Image Structure by Hierarchal Segmentation. , 2007, , .   |     | 0         |
| 71 | A Preliminary Study of Medical Image Distributed Intelligent Access Integrated with Electronic Medical Records System for Brain Degenerative Disease. , 2007, , . |     | 0         |
| 72 | Inter-media Concept-Based Medical Image Indexing and Retrieval with UMLS at IPAL. Lecture Notes in Computer Science, 2007, , 694-701.                             | 1.0 | 7         |

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|----|--|-----|-----------|
| 73 | A neuro-fuzzy monitoring system. Computers in Industry, 2006, 57, 528-538.   | 5.7 | 21        |
| 74 | A Semantic Fusion Approach Between Medical Images and Reports Using UMLS. Lecture Notes in Computer Science, 2006, , 460-475.  | 1.0 | 7         |
| 75 | Stripe: Image Feature Based on a New Grid Method and Its Application in ImageCLEF. Lecture Notes in Computer Science, 2006, , 489-496.   | 1.0 | 2         |
| 76 | AN UML MODELLING OF A NEURO-FUZZY MONITORING SYSTEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 305-310.   | 0.4 | 1         |
| 77 | Utilisation des réseaux de neurones temporels pour le pronostic et la surveillance dynamique. Etude comparative de trois réseaux de neurones récurrents. Revue D'Intelligence Artificielle, 2005, 19, 913-950. | 0.5 | 2         |
| 78 | Recurrent radial basis function network for time-series prediction. Engineering Applications of Artificial Intelligence, 2003, 16, 453-463.  | 4.3 | 95        |
| 79 | Réseaux de neurones récurrents à fonctions de base radiales. Application à la surveillance dynamique. Journal Europeen Des Systemes Automatisés, 2003, 37, 49-81.  | 0.3 | 1         |
| 80 | Réseaux de neurones récurrents à fonctions de base radiales : RRFR Application au pronostic. Revue D'Intelligence Artificielle, 2002, 16, 307-338.   | 0.5 | 5         |
| 81 | A Petri nets graphic method of reduction using birth-death processes. , 0, , .   |     | 0         |
| 82 | From the spherical to an elliptic form of the dynamic RBF neural network influence field. , 0, , .   |     | 0         |
| 83 | Modular modeling and analysis of a distributed production system with distant specialised maintenance. , 0, , .  |     | 4         |
| 84 | Fuzzy Petri nets for monitoring and recovery. , 0, , .   |     | 9         |
| 85 | Monitoring Approach Using Recurrent Radial Basis Function Neural Networks and Neuro-Fuzzy Systems. , 0, , .  |     | 0         |
| 86 | Parkinson's Disease Diagnosis and Prognosis Using Diffusion Tensor Medical Imaging Features Fusion. , 0, , .   |     | 0         |