Aleksei Tiulpin

List of Publications by Year
in descending order

26 papers	1,109 citations	840776 11 h-index	794594 19 g-index
31 all docs	31 docs citations	31 times ranked	1352 citing authors

#	Article	IF	Citations
1	Automatic Knee Osteoarthritis Diagnosis from Plain Radiographs: A Deep Learning-Based Approach. Scientific Reports, 2018, 8, 1727.	3.3	358
2	Gray Matter Age Prediction as a Biomarker for Risk of Dementia. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21213-21218.	7.1	147
3	Multimodal Machine Learning-based Knee Osteoarthritis Progression Prediction from Plain Radiographs and Clinical Data. Scientific Reports, 2019, 9, 20038.	3.3	145
4	DGC-Net: Dense Geometric Correspondence Network. , 2019, , .		61
5	Automatic Grading of Individual Knee Osteoarthritis Features in Plain Radiographs Using Deep Convolutional Neural Networks. Diagnostics, 2020, 10, 932.	2.6	60
6	Improving Robustness of Deep Learning Based Knee MRI Segmentation: Mixup and Adversarial Domain Adaptation. , 2019, , .		44
7	Deep learning identifies morphological features in breast cancer predictive of cancer ERBB2 status and trastuzumab treatment efficacy. Scientific Reports, 2021, 11, 4037.	3.3	43
8	A Novel Method for Automatic Localization of Joint Area on Knee Plain Radiographs. Lecture Notes in Computer Science, 2017, , 290-301.	1.3	30
9	Critical evaluation of deep neural networks for wrist fracture detection. Scientific Reports, 2021, 11, 6006.	3.3	27
10	Deep learning–based segmentation of knee MRI for fully automatic subregional morphological assessment of cartilage tissues: Data from the Osteoarthritis Initiative. Journal of Orthopaedic Research, 2022, 40, 1113-1124.	2.3	25
11	<i>Semixup</i>: In- and Out-of-Manifold Regularization for Deep Semi-Supervised Knee Osteoarthritis Severity Grading From Plain Radiographs. IEEE Transactions on Medical Imaging, 2020, 39, 4346-4356.	8.9	24
12	KNEEL: Knee Anatomical Landmark Localization Using Hourglass Networks. , 2019, , .		22
13	Development of osteoarthritis in patients with degenerative meniscal tears treated with exercise therapy or surgery: a randomized controlled trial. Osteoarthritis and Cartilage, 2020, 28, 897-906.	1.3	21
14	Adaptive segmentation of knee radiographs for selecting the optimal ROI in texture analysis. Osteoarthritis and Cartilage, 2020, 28, 941-952.	1.3	21
15	Automating three-dimensional osteoarthritis histopathological grading of human osteochondral tissue using machine learning on contrast-enhanced micro-computed tomography. Osteoarthritis and Cartilage, 2020, 28, 1133-1144.	1.3	11
16	Automated analysis of rabbit knee calcified cartilage morphology using micro–computed tomography and deep learning. Journal of Anatomy, 2021, 239, 251-263.	1.5	10
17	Bayesian Feature Pyramid Networks for Automatic Multi-label Segmentation of Chest X-rays and Assessment of Cardio-Thoratic Ratio. Lecture Notes in Computer Science, 2020, , 117-130.	1.3	10
18	Acoustic emissions and kinematic instability of the osteoarthritic knee joint: comparison with radiographic findings. Scientific Reports, 2021, 11, 19558.	3.3	7

#	Article	IF	Citations
19	CLIMAT: Clinically-Inspired Multi-Agent Transformers for Knee Osteoarthritis Trajectory Forecasting. , 2022, , .		6
20	Breast Tumor Cellularity Assessment Using Deep Neural Networks. , 2019, , .		5
21	Deep-Learning for Tidemark Segmentation in Human Osteochondral Tissues Imaged with Micro-computed Tomography. Lecture Notes in Computer Science, 2020, , 131-138.	1.3	4
22	Detection of experimental cartilage damage with acoustic emissions technique: An in vitro equine study. Equine Veterinary Journal, 2020, 52, 152-157.	1.7	3
23	Outcome and biomarker supervised deep learning for survival prediction in two multicenter breast cancer series. Journal of Pathology Informatics, 2022, 13, 100171.	1.7	3
24	Deep Semi-Supervised Active Learning for Knee Osteoarthritis Severity Grading. , 2022, , .		3
25	Evaluation of WAMP protocol in real-time remote ECG monitoring. IFMBE Proceedings, 2018, , 25-28.	0.3	0
26	Predicting Knee Osteoarthritis Progression from Structural MRI Using Deep Learning. , 2022, , .		0