Benoît Macq

List of Publications by Year in descending order

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279798 197818 2,510 70 23 49 citations h-index g-index papers 71 71 71 2936 docs citations times ranked citing authors all docs

#	Article	lF	CITATIONS
1	Geometrically invariant watermarking using feature points. IEEE Transactions on Image Processing, 2002, 11, 1014-1028.	9.8	391
2	Serial registration of intraoperative MR images of the brain. Medical Image Analysis, 2002, 6, 337-359.	11.6	184
3	Feature extraction and selection for objective gait analysis and fall risk assessment by accelerometry. BioMedical Engineering OnLine, $2011,10,1.$	2.7	176
4	Comparison of 12 deformable registration strategies in adaptive radiation therapy for the treatment of head and neck tumors. Radiotherapy and Oncology, 2008, 89, 1-12.	0.6	174
5	Artificial intelligence and machine learning for medical imaging: A technology review. Physica Medica, 2021, 83, 242-256.	0.7	135
6	Resting-state EEG study of comatose patients: a connectivity and frequency analysis to find differences between vegetative and minimally conscious states. Functional Neurology, 2012, 27, 41-7.	1.3	118
7	A particle filter for joint detection and tracking of color objects. Image and Vision Computing, 2007, 25, 1271-1281.	4.5	113
8	Pulsed 1.5-\$mu\$m LIDAR for Axial Aircraft Wake Vortex Detection Based on High-Brightness Large-Core Fiber Amplifier. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 441-450.	2.9	78
9	Evaluation of nonrigid registration models for interfraction dose accumulation in radiotherapy. Medical Physics, 2009, 36, 4268-4276.	3.0	73
10	Development and validation of an accelerometer-based method for quantifying gait events. Medical Engineering and Physics, 2015, 37, 226-232.	1.7	71
11	Diffeomorphic Registration of Images with Variable Contrast Enhancement. International Journal of Biomedical Imaging, 2011, 2011, 1-16.	3.9	70
12	Registration and Real-Time Visualization of Transcranial Magnetic Stimulation With 3-D MR Images. IEEE Transactions on Biomedical Engineering, 2004, 51, 1994-2005.	4.2	66
13	Design of Signal-Adapted Multidimensional Lifting Scheme for Lossy Coding. IEEE Transactions on Image Processing, 2004, 13, 1589-1603.	9.8	64
14	Tumour delineation and cumulative dose computation in radiotherapy based on deformable registration of respiratory correlated CT images of lung cancer patients. Radiotherapy and Oncology, 2007, 85, 232-238.	0.6	64
15	Single-Trial EEG Source Reconstruction for Brain–Computer Interface. IEEE Transactions on Biomedical Engineering, 2008, 55, 1592-1601.	4.2	58
16	Effect of dietary fatty acid composition on growth, fatty acids composition and hepatic lipid metabolism in juvenile turbot (Scophthalmus maximus L.) fed diets with required n3 LC-PUFAs. Aquaculture, 2017, 479, 591-600.	3.5	48
17	Tumor detection in the bladder wall with a measurement of abnormal thickness in CT scans. IEEE Transactions on Biomedical Engineering, 2003, 50, 383-390.	4.2	46
18	Optimal Transport for Secure Spread-Spectrum Watermarking of Still Images. IEEE Transactions on Image Processing, 2014, 23, 1694-1705.	9.8	42

#	Article	IF	Citations
19	Towards microstructure fingerprinting: Estimation of tissue properties from a dictionary of Monte Carlo diffusion MRI simulations. Neurolmage, 2019, 184, 964-980.	4.2	38
20	Towards an integrated system for planning and assisting maxillofacial orthognathic surgery. Computer Methods and Programs in Biomedicine, 2008, 91, 13-21.	4.7	35
21	A queue-based region growing algorithm for accurate segmentation of multi-dimensional digital images. Signal Processing, 1997, 60, 1-10.	3.7	30
22	Efficient multi-modal dense field non-rigid registration: alignment of histological and section images. Medical Image Analysis, 2005, 9, 538-546.	11.6	29
23	Domain adversarial networks and intensity-based data augmentation for male pelvic organ segmentation in cone beam CT. Computers in Biology and Medicine, 2021, 131, 104269.	7.0	27
24	Prefetching and Caching Strategies for Remote and Interactive Browsing of JPEG2000 Images. IEEE Transactions on Image Processing, 2007, 16, 1339-1354.	9.8	24
25	Versatile Clinical Information System Design for Emergency Departments. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 174-183.	3.2	22
26	Secure Architectures Implementing Trusted Coalitions for Blockchained Distributed Learning (TCLearn). IEEE Access, 2019, 7, 181789-181799.	4.2	22
27	Assessing the validity of the approximation of diffusionâ€weightedâ€MRI signals from crossing fascicles by sums of signals from single fascicles. Magnetic Resonance in Medicine, 2018, 79, 2332-2345.	3.0	18
28	Estimation of the deformations induced by articulated bodies: Registration of the spinal column. Biomedical Signal Processing and Control, 2007, 2, 16-24.	5.7	16
29	Evaluation of the radiobiological impact of anatomic modifications during radiation therapy for head and neck cancer: Can we simply summate the dose?. Radiotherapy and Oncology, 2010, 96, 131-138.	0.6	15
30	Improved fidelity of brain microstructure mapping from single-shell diffusion MRI. Medical Image Analysis, 2015, 26, 268-286.	11.6	15
31	Lipid deposition patterns among different sizes of three commercial fish species. Aquaculture Research, 2018, 49, 1046-1052.	1.8	15
32	Analysis and experimental evaluation of image-based PUFs. Journal of Cryptographic Engineering, 2012, 2, 189-206.	1.8	14
33	Cross-Domain Data Augmentation for Deep-Learning-Based Male Pelvic Organ Segmentation in Cone Beam CT. Applied Sciences (Switzerland), 2020, 10, 1154.	2.5	13
34	On-board axial detection of wake vortices using a 2- m m LiDAR. IEEE Transactions on Aerospace and Electronic Systems, 2008, 44, 1276-1290.	4.7	12
35	Suppressor of cytokine signaling 3 (SOCS3) is related to pro-inflammatory cytokine production and triglyceride deposition in turbot (Scophthalmus maximus). Fish and Shellfish Immunology, 2017, 70, 381-390.	3.6	12
36	Registration of pencil beam proton radiography data with Xâ€ray CT. Medical Physics, 2017, 44, 5393-5401.	3.0	12

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37	Reassessment of stopping power ratio uncertainties caused by mean excitation energies using a waterâ€based formalism. Medical Physics, 2018, 45, 3361-3370.	3.0	11
38	Sparse deconvolution of proton radiography data to estimate water equivalent thickness maps. Medical Physics, 2020, 47, 509-517.	3.0	10
39	Reinforcement Learning for Radiotherapy Dose Fractioning Automation. Biomedicines, 2021, 9, 214.	3.2	10
40	Optimum quality and progressive resolution of video signals. Annales Des Telecommunications/Annals of Telecommunications, 1990, 45, 487-502.	2.5	9
41	Scalable Feature Extraction for Coarse-to-Fine JPEG 2000 Image Classification. IEEE Transactions on Image Processing, 2011, 20, 2636-2649.	9.8	9
42	Simulation of the human TMJ behavior based on interdependent joints topology. Computer Methods and Programs in Biomedicine, 2012, 105, 217-232.	4.7	9
43	openPR — A computational tool for CT conversion assessment with proton radiography. Medical Physics, 2021, 48, 387-396.	3.0	9
44	Conceptualising mixed spaces of interaction for designing continuous interaction. Virtual Reality, 2004, 8, 83-95.	6.1	8
45	3D posture estimation using geodesic distance maps. Multimedia Tools and Applications, 2008, 38, 365-384.	3.9	8
46	Remote Interactive Browsing of Video Surveillance Content Based on JPEG 2000. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1143-1157.	8.3	8
47	Usability evaluation of virtual reality interaction techniques forÂpositioning and manoeuvring in reduced, manipulation-oriented environments. Visual Computer, 2010, 26, 619-628.	3.5	8
48	Validated extraction of gait events from 3D accelerometer recordings. , 2012, , .		8
49	Universal variable length coding for an integrated approach to image coding. Annales Des Telecommunications/Annals of Telecommunications, 1991, 46, 452-459.	2.5	7
50	Performances of linear tools and models for error detection and concealment in subband image transmission. IEEE Transactions on Image Processing, 2002, 11, 518-529.	9.8	7
51	Regression applied to protein binding site prediction and comparison with classification. BMC Bioinformatics, 2009, 10, 276.	2.6	7
52	Randomly driven fuzzy key extraction of unclonable images. , 2010, , .		6
53	A time frequency domain feature extraction algorithm for landmine identification from GPR data. Near Surface Geophysics, 2008, 6, 411-421.	1.2	5
54	Impacts of Watermarking Security on Tardos-Based Fingerprinting. IEEE Transactions on Information Forensics and Security, 2013, 8, 1038-1050.	6.9	5

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55	Multi-modal movement reconstruction for stroke rehabilitation and performance assessment. Journal on Multimodal User Interfaces, 2011, 4, 119-127.	2.9	4
56	Anatomical atlas in the context of head and neck radiotherapy and its use to automatic segmentation. Biomedical Signal Processing and Control, 2012, 7, 447-455.	5.7	4
57	Exploitation of Interframe Redundancy for Real-Time Volumetric Reconstruction of Arbitrary Shapes. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 556-567.	10.8	3
58	A P300 potential evaluation wavelet method comparing individuals with high and low risk for alcoholism. Neural Computing and Applications, 2017, 28, 3737-3748.	5.6	3
59	Continuous real time 3D motion reproduction using dynamic MRI and precomputed 4DCT deformation fields. Journal of Applied Clinical Medical Physics, 2020, 21, 236-248.	1.9	3
60	Artificial intelligence and thyroid disease management. Biochemia Medica, 2022, 32, 182-188.	2.7	3
61	Improved 3D U-Net robustness against JPEG 2000 compression for male pelvic organ segmentation in radiotherapy. Journal of Medical Imaging, 2021, 8, 041207.	1.5	2
62	Lossless hierarchical storage of images. European Transactions on Telecommunications, 1995, 6, 267-274.	1.2	1
63	Technologies du tatouage pour l'authentification et la protection des images. Annales Des Telecommunications/Annals of Telecommunications, 2000, 55, 92-100.	2.5	1
64	Multi-domain framework for multimedia archiving using multimodal interaction. Integrated Computer-Aided Engineering, 2011, 18, 15-28.	4.6	1
65	Passive and Active Wireless Device Secure Identification. IEEE Access, 2020, 8, 83312-83320.	4.2	1
66	Selective prediction error transmission using motion information. Signal Processing: Image Communication, 1998, 12, 71-81.	3.2	0
67	Techniques for secure execution of mobile code: a review. Annales Des Telecommunications/Annals of Telecommunications, 2000, 55, 379.	2.5	0
68	Online fat detection and evaluation in modelling digital physiological fish. Aquaculture Research, 2020, 51, 3175-3190.	1.8	0
69	Implementation of a Holonic Multi-agent System in Mixed or Augmented Reality for Large Scale Interactions. Lecture Notes in Computer Science, 2020, , 447-450.	1.3	0
70	Optimal Intermittent Particle Filter. IEEE Transactions on Signal Processing, 2022, 70, 2814-2825.	5. 3	0