Markus Reischl

List of Publications by Year
in descending order

120 papers	3,088 citations	201674 27 h-index	182427 51 g-index
126 all docs	126 docs citations	126 times ranked	6673 citing authors

#	Article	IF	Citations
1	Development of an Experimental Setup for Real-Time In-Line Dissolved Ozone Measurement for Medical Therapy. Ozone: Science and Engineering, 2022, 44, 499-509.	2.5	3
2	Equilibrium droplet shapes on chemically patterned surfaces: theoretical calculation, phase-field simulation, and experiments. Journal of Colloid and Interface Science, 2022, 606, 1077-1086.	9.4	18
3	An Automated Experimentation System for the Touch-Response Quantification of Zebrafish Larvae. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3007-3019.	5.2	3
4	Genetic Algorithm for the Optimal LiDAR Sensor Configuration on a Vehicle. IEEE Sensors Journal, 2022, 22, 2735-2743.	4.7	8
5	High-Throughput Data Acquisition Platform for Multi-Larvae Touch-Response Behavior Screening of Zebrafish. IEEE Robotics and Automation Letters, 2022, 7, 858-865.	5.1	2
6	Automated Annotator Variability Inspection for Biomedical Image Segmentation. IEEE Access, 2022, 10, 2753-2765.	4.2	9
7	Simple assessment of viability in 2D and 3D cell microarrays using single step digital imaging. SLAS Technology, 2022, 27, 44-53.	1.9	5
8	Methods for the frugal labeler: Multi-class semantic segmentation on heterogeneous labels. PLoS ONE, 2022, 17, e0263656.	2.5	5
9	Machine learning with domain knowledge for predictive quality monitoring in resistance spot welding. Journal of Intelligent Manufacturing, 2022, 33, 1139-1163.	7.3	46
10	â€œCellsâ€‘toâ€‘DNA on Chipâ€: Phenotypic Assessment and Gene Expression Analysis from Live Cells in Nanoliter Volumes Using Droplet Microarrays. Advanced Healthcare Materials, 2022, 11, e2102493.	7.6	6
11	Droplet Microarray Based Screening Identifies Proteins for Maintaining Pluripotency of hiPSCs. Advanced Healthcare Materials, 2022, 11, .	7.6	2
12	Normics: Proteomic Normalization by Variance and Data-Inherent Correlation Structure. Molecular and Cellular Proteomics, 2022, 21, 100269.	3.8	2
13	Cuepervision: self-supervised learning for continuous domain adaptation without catastrophic forgetting. Image and Vision Computing, 2021, 106, 104079.	4.5	6
14	Miniaturized Drug Sensitivity and Resistance Test on Patient-Derived Cells Using Droplet-Microarray. SLAS Technology, 2021, 26, 274-286.	1.9	11
15	Enhancing deep-learning training for phase identification in powder X-ray diffractograms. IUCrJ, 2021, 8, 408-420.	2.2	13
16	Performance of Different Diagnostic PD-L1 Clones in Head and Neck Squamous Cell Carcinoma. Frontiers in Medicine, 2021, 8, 640515.	2.6	13
17	Evaluation of four point cloud similarity measures for the use in autonomous driving. Automatisierungstechnik, 2021, 69, 499-510.	0.8	0
18	Designing Inherently Photodegradable Cellâ€Adhesive Hydrogels for 3D Cell Culture. Advanced Healthcare Materials, 2021, 10, e2100632.	7.6	8

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19	Long photoperiod impairs learning in male but not female medaka. IScience, 2021, 24, 102784.	4.1	8
20	Machine learning methods for automated classification of tumors with papillary thyroid carcinoma-like nuclei: A quantitative analysis. PLoS ONE, 2021, 16, e0257635.	2.5	18
21	Night-to-Day: Online Image-to-Image Translation for Object Detection Within Autonomous Driving by Night. IEEE Transactions on Intelligent Vehicles, 2021, 6, 480-489.	12.7	36
22	CAD-to-real: enabling deep neural networks for 3D pose estimation of electronic control units. Automatisierungstechnik, 2021, 69, 880-891.	0.8	1
23	Evaluierung von Merkmalen zur Abbildung von Veränderungen in ungeordneten Bilddaten. Automatisierungstechnik, 2021, 69, 892-902.	0.8	0
24	Systematic assessment of the biocompatibility of materials for inkjet-printed ozone sensors for medical therapy. Flexible and Printed Electronics, 2021, 6, 043003.	2.7	5
25	epiTracker: A Framework for Highly Reliable Particle Tracking for the Quantitative Analysis of Fish Movements in Tanks. SLAS Technology, 2021, 26, 367-376.	1.9	0
26	Grid Screener: A Tool for Automated High-Throughput Screening on Biochemical and Biological Analysis Platforms. IEEE Access, 2021, 9, 166027-166038.	4.2	4
27	Comparison of PD-L1 expression between paired cytologic and histologic specimens from non-small cell lung cancer patients. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2020, 476, 261-271.	2.8	15
28	BeadNet: deep learning-based bead detection and counting in low-resolution microscopy images. Bioinformatics, 2020, 36, 4668-4670.	4.1	4
29	High-Throughput Screening of Cell Transfection Enhancers Using Miniaturized Droplet Microarrays. Advanced Biology, 2020, 4, e1900257.	3.0	14
30	A novel approach to label road defects in video data: semi-automated video analysis. International Journal on Smart Sensing and Intelligent Systems, 2020, 13, 1-9.	0.7	1
31	Evaluation of semi-supervised learning using sparse labeling to segment cell nuclei. Current Directions in Biomedical Engineering, 2020, 6, 398-401.	0.4	3
32	mTORC1 and PKB/Akt control the muscle response to denervation by regulating autophagy and HDAC4. Nature Communications, 2019, 10, 3187.	12.8	71
33	Automated design process for hybrid regression modeling with a one-class SVM. Automatisierungstechnik, 2019, 67, 843-852.	0.8	5
34	Machine Learning Methods for Automated Quantification of Ventricular Dimensions. Zebrafish, 2019, 16, 542-545.	1.1	10
35	Benchmarking in classification and regression. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1318.	6.8	23
36	DIY Automated Feeding and Motion Recording System for the Analysis of Fish Behavior. SLAS Technology, 2019, 24, 394-398.	1.9	9

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37	A Novel Optical Tissue Clearing Protocol for Mouse Skeletal Muscle to Visualize Endplates in Their Tissue Context. Frontiers in Cellular Neuroscience, 2019, 13, 49.	3.7	39
38	Data mining tools. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1309.	6.8	16
39	The HMG box transcription factors Sox1a and b specify a new class of glycinergic interneurons in the spinal cord of zebrafish embryos. Development (Cambridge), 2019, 146, .	2.5	20
40	Strategies for supplementing recurrent neural network training for spatio-temporal prediction. Automatisierungstechnik, 2019, 67, 545-556.	0.8	6
41	Motion prediction enables simulated MR-imaging of freely moving model organisms. PLoS Computational Biology, 2019, 15, e1006997.	3.2	0
42	Fuzzy tissue detection for real-time focal control in corneal confocal microscopy. Automatisierungstechnik, 2019, 67, 879-888.	0.8	1
43	Domain is of the Essence: Data Deployment for City-Scale Multi-Camera Vehicle Re-Identification. , 2019, , .		4
44	Characterization of Road Condition with Data Mining Based on Measured Kinematic Vehicle Parameters. Journal of Advanced Transportation, 2018, 2018, 1-10.	1.7	5
45	Droplet microarray: miniaturized platform for rapid formation and high-throughput screening of embryoid bodies. Lab on A Chip, 2018, 18, 2257-2269.	6.0	25
46	Cortical representation of auricular muscles in humans: A robot-controlled TMS mapping and fMRI study. PLoS ONE, 2018, 13, e0201277.	2.5	3
47	A hybrid auricular control system: direct, simultaneous, and proportional myoelectric control of two degrees of freedom in prosthetic hands. Journal of Neural Engineering, 2018, 15, 056028.	3.5	12
48	Distinct amino acid motifs carrying multiple positive charges regulate membrane targeting of dysferlin and MG53. PLoS ONE, 2018, 13, e0202052.	2.5	9
49	A novel brain tumour model in zebrafish reveals the role of YAP activation in MAPK/PI3K induced malignant growth. DMM Disease Models and Mechanisms, 2017, 10, 15-28.	2.4	58
50	DaMoQ: Eine Open-Source-MATLAB-Toolbox zur Bewertung von Daten- und Modellqualität in Regressionen. Automatisierungstechnik, 2017, 65, 207-218.	0.8	2
51	Road surface prediction from acoustical measurements in the tire cavity using support vector machine. Applied Acoustics, 2017, 125, 41-48.	3.3	43
52	ZebrafishMiner: an open source software for interactive evaluation of domain-specific fluorescence in zebrafish. Current Directions in Biomedical Engineering, 2017, 3, 199-202.	0.4	2
53	Photovoltaic power forecasting using simple data-driven models without weather data. Computer Science - Research and Development, 2017, 32, 237-246.	2.7	22
54	Evaluation of the Droplet-Microarray Platform for High-Throughput Screening of Suspension Cells. SLAS Technology, 2017, 22, 163-175.	1.9	25

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55	Charakterisierung der Fahrbahnbeschaffenheit durch Data Mining von gemessenen kinematischen Fahrzeuggrößen. Automatisierungstechnik, 2017, 65, 867-877.	0.8	1
56	Prognostic Value of the New Prostate Cancer International Society of Urological Pathology Grade Groups. Frontiers in Medicine, 2017, 4, 157.	2.6	21
57	The tumor-associated YB-1 protein: new player in the circadian control of cell proliferation. Oncotarget, 2017, 8, 6193-6205.	1.8	17
58	XPIWIT—an XML pipeline wrapper for the Insight Toolkit. Bioinformatics, 2016, 32, 315-317.	4.1	28
59	Control scheme selection in human-machine- interfaces by analysis of activity signals. Current Directions in Biomedical Engineering, 2016, 2, 707-710.	0.4	0
60	Semi-automated detection of fractional shortening in zebrafish embryo heart videos. Current Directions in Biomedical Engineering, 2016, 2, 233-236.	0.4	6
61	A framework for feedback-based segmentation of 3D image stacks. Current Directions in Biomedical Engineering, 2016, 2, 437-441.	0.4	0
62	Virtual Storages as Theoretically Motivated Demand Response Models for Enhanced Smart Grid Operations. Energy Technology, 2016, 4, 163-176.	3.8	6
63	Dysferlin-mediated phosphatidylserine sorting engages macrophages in sarcolemma repair. Nature Communications, 2016, 7, 12875.	12.8	61
64	Einfluss von Trainingseffekten auf die Parameteradaption für Mensch-Maschine-Schnittstellen in der Medizintechnik. Automatisierungstechnik, 2016, 64, 816-826.	0.8	0
65	Automation strategies for large-scale 3D image analysis. Automatisierungstechnik, 2016, 64, 555-566.	0.8	1
66	Automated phenotype pattern recognition of zebrafish for high-throughput screening. Bioengineered, 2016, 7, 261-265.	3.2	16
67	Improving short antimicrobial peptides despite elusive rules for activity. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1024-1033.	2.6	57
68	Small angle X-ray scattering as a high-throughput method to classify antimicrobial modes of action. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 918-925.	2.6	33
69	Sympathetic innervation controls homeostasis of neuromuscular junctions in health and disease. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 746-750.	7.1	123
70	A New Feedback-Based Method for Parameter Adaptation in Image Processing Routines. PLoS ONE, 2016, 11, e0165180.	2.5	2
71	Beispiele für den Einsatz von Automatisierungstechnik bei der Analyse biologischer Modellorganismen. Automatisierungstechnik, 2016, 64, 915-925.	0.8	0
72	Steer by ear: Myoelectric auricular control of powered wheelchairs for individuals with spinal cord injury. Restorative Neurology and Neuroscience, 2015, 34, 79-95.	0.7	21

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73	A Zebrafish Drug-Repurposing Screen Reveals sGC-Dependent and sGC-Independent Pro-Inflammatory Activities of Nitric Oxide. PLoS ONE, 2015, 10, e0137286.	2.5	20
74	Clinical and Molecular Implications of MED15 in Head and Neck Squamous Cell Carcinoma. American Journal of Pathology, 2015, 185, 1114-1122.	3.8	21
75	Demand response clustering - How do dynamic prices affect household electricity consumption?. , 2015, , .		6
76	A Benchmark Data Set to Evaluate the Illumination Robustness of Image Processing Algorithms for Object Segmentation and Classification. PLoS ONE, 2015, 10, e0131098.	2.5	5
77	Kalibrierungs- und Trainingsstrategien zur individuellen Signalgenerierung für die myoelektrische Steuerung technischer Hilfsmittel. TM Technisches Messen, 2015, 82, 411-421.	0.7	1
78	Role of autophagy, SQSTM1, SH3GLB1, and TRIM63 in the turnover of nicotinic acetylcholine receptors. Autophagy, 2014, 10, 123-136.	9.1	86
79	Automated prior knowledge-based quantification of neuronal patterns in the spinal cord of zebrafish. Bioinformatics, 2014, 30, 726-733.	4.1	7
80	Data Mining zur Analyse der Auswirkungen von Preissignalen auf Haushaltsstromkunden. Automatisierungstechnik, 2014, 62, 740-752.	0.8	10
81	Asphalt Image Miner: Ein Werkzeug zur automatischen Quantifizierung der Gesteinskörnungen in Asphaltproben. Automatisierungstechnik, 2014, 62, 676-683.	0.8	0
82	Autophagy Impairment in Muscle Induces Neuromuscular Junction Degeneration and Precocious Aging. Cell Reports, 2014, 8, 1509-1521.	6.4	309
83	Automatic Zebrafish Heartbeat Detection and Analysis for Zebrafish Embryos. Zebrafish, 2014, 11, 379-383.	1.1	49
84	Genome-wide, whole mount in situ analysis of transcriptional regulators in zebrafish embryos. Developmental Biology, 2013, 380, 351-362.	2.0	54
85	Targeting Mycobacterium tuberculosis and Other Microbial Pathogens Using Improved Synthetic Antibacterial Peptides. Antimicrobial Agents and Chemotherapy, 2013, 57, 2295-2303.	3.2	72
86	Automatic Tuning of Image Segmentation Parameters by Means of Fuzzy Feature Evaluation. Advances in Intelligent Systems and Computing, 2013, , 459-467.	0.6	5
87	Concept of a Co-Adaptive Training Environment for Human-Machine Interfaces Based on EMG-Control. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	4
88	Facilitating Drug Discovery: An Automated High-content Inflammation Assay in Zebrafish. Journal of Visualized Experiments, 2012, , e4203.	0.3	23
89	Methoden zur datengetriebenen Formulierung und Visualisierung von Kausalitätshypothesen. Automatisierungstechnik, 2012, 60, 630-640.	0.8	1
90	Information Fusion of Image Analysis, Video Object Tracking, and Data Mining of Biological Images using the Open Source MATLAB Toolbox Gait-CAD. Biomedizinische Technik, 2012, 57, .	0.8	5

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91	Rapsyn mediates subsynaptic anchoring of PKA type I and stabilisation of acetylcholine receptor in vivo. Journal of Cell Science, 2012, 125, 714-723.	2.0	38
92	Participation of Myosin Va and Pka Type I in the Regeneration of Neuromuscular Junctions. PLoS ONE, 2012, 7, e40860.	2.5	22
93	A prototyping environment for evaluation of man-machine interfaces based on electromyographic activity. Biomedizinische Technik, 2012, 57, .	0.8	1
94	Frequency and clinicopathologic correlates of KRAS amplification in non-small cell lung carcinoma. Lung Cancer, 2011, 74, 118-123.	2.0	53
95	SOX2 amplification is a common event in squamous cell carcinomas of different organ sites. Human Pathology, 2011, 42, 1078-1088.	2.0	99
96	Evaluation of data mining approaches for the control of multifunctional arm prostheses. Integrated Computer-Aided Engineering, 2011, 18, 235-249.	4.6	6
97	A Novel Labeling Approach Identifies Three Stability Levels of Acetylcholine Receptors in the Mouse Neuromuscular Junction In Vivo. PLoS ONE, 2011, 6, e20524.	2.5	23
98	Relevance of cohort design for studying the frequency of the ERG rearrangement in prostate cancer. Histopathology, 2011, 58, 1028-1036.	2.9	33
99	Data mining tools. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2011, 1, 431-443.	6.8	100
100	OrthoJacket: an active FES-hybrid orthosis for the paralysed upper extremity. Biomedizinische Technik, 2011, 56, 35-44.	0.8	35
101	SOX2 gene amplification and protein overexpression are associated with better outcome in squamous cell lung cancer. Modern Pathology, 2011, 24, 944-953.	5.5	177
102	Automatische Klassifikation von Bildzeitreihen fÃ¼r toxikologische Hochdurchsatz-Untersuchungen. Automatisierungstechnik, 2011, 59, 259-268.	0.8	1
103	<i>ERG</i> rearrangement in small cell prostatic and lung cancer. Histopathology, 2010, 56, 937-943.	2.9	64
104	Myosin Va cooperates with PKA RIÎ± to mediate maintenance of the endplate in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2031-2036.	7.1	52
105	ERG rearrangement is specific to prostate cancer and does not occur in any other common tumor. Modern Pathology, 2010, 23, 1061-1067.	5.5	114
106	Methods for Automated High-Throughput Toxicity Testing Using Zebrafish Embryos. Lecture Notes in Computer Science, 2010, , 219-226.	1.3	6
107	Automatic adaptation of a self-adhesive multi-electrode array for active wrist joint stabilization in tetraplegic SCI individuals. , 2009, , .		17
108	Zebrafish embryos as models for embryotoxic and teratological effects of chemicals. Reproductive Toxicology, 2009, 28, 245-253.	2.9	240

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109	Automated high-throughput mapping of promoter-enhancer interactions in zebrafish embryos. Nature Methods, 2009, 6, 911-916.	19.0	123
110	Comparison of surface EMG monitoring electrodes for long-term use in rehabilitation device control. , 2009, , .		38
111	Signal processing concepts for optimal myoelectric sensor placement in a modular hybrid FES orthosis. IFMBE Proceedings, 2009, , 1816-1819.	0.3	5
112	Takagi–Sugeno–Kang Fuzzy Classifiers for a Special Class of Time-Varying Systems. IEEE Transactions on Fuzzy Systems, 2008, 16, 1038-1049.	9.8	8
113	Data-Mining-Analysen mit der Matlab-Toolbox Gait-CAD (Data Mining Analyses with the Matlab Toolbox) Tj ETQq1 1 0.784314 rgBT /O	0.8	2
114	Gedanken zur Lehre. Automatisierungstechnik, 2007, 55, 266-268.	0.8	0
115	Data mining in medical time series. Biomedizinische Technik, 2006, 51, 288-293.	0.8	11
116	ROBUST TRAINING AND CONTROL STRATEGIES FOR THE GRASP TYPE SELECTION OF HAND PROSTHESES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 478-483.	0.4	0
117	Regelungs- und Steuerungskonzepte für Neuroprothesen am Beispiel der oberen Extremitäten (Closed-) Tj ETQq1 1 0.784314 rgBT /O Automatisierungstechnik, 2006, 54, 523-536.	0.8	1
118	Zeitvariante Klassifikatoren zur Steuerung von Brain Machine Interfaces und Neuroprothesen (Time-variant Classifiers to Control Brain Machine Interfaces and Neuroprostheses). Automatisierungstechnik, 2006, 54, 537-545.	0.8	0
119	A hydraulically driven multifunctional prosthetic hand. Robotica, 2005, 23, 293-299.	1.9	59
120	Optimized classification of multiclass problems applied to EMG-control of hand prostheses. , 2004, , .		5