# Friedhelm Schwenker

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 174 papers | 3,370 citations | 186265 28 h-index | 214800 47 g-index |
| 192 all docs | 192 docs citations | 192 times ranked | 2281 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Three learning phases for radial-basis-function networks. Neural Networks, 2001, 14, 439-458. | 5.9 | 437 |
| 2 | Pattern classification and clustering: A review of partially supervised learning approaches. Pattern Recognition Letters, 2014, 37, 4-14. | 4.2 | 184 |
| 3 | Survey of deep learning in breast cancer image analysis. Evolving Systems, 2020, 11, 143-163. | 3.9 | 106 |
| 4 | A dataset of continuous affect annotations and physiological signals for emotion analysis. Scientific Data, 2019, 6, 196. | 5.3 | 79 |
| 5 | Multiple Classifier Systems for the Classification of Audio-Visual Emotional States. Lecture Notes in Computer Science, 2011, , 359-368. | 1.3 | 65 |
| 6 | A Survey of Brain Tumor Segmentation and Classification Algorithms. Journal of Imaging, 2021, 7, 179. | 3.0 | 64 |
| 7 | Methods for Person-Centered Continuous Pain Intensity Assessment From Bio-Physiological Channels. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 854-864. | 10.8 | 63 |
| 8 | Investigating fuzzy-input fuzzy-output support vector machines for robust voice quality classification. Computer Speech and Language, 2013, 27, 263-287. | 4.3 | 60 |
| 9 | Adaptive confidence learning for the personalization of pain intensity estimation systems. Evolving Systems, 2017, 8, 71-83. | 3.9 | 56 |
| 10 | Enhanced Region Growing for Brain Tumor MR Image Segmentation. Journal of Imaging, 2021, 7, 22. | 3.0 | 53 |
| 11 | Multi-Modal Pain Intensity Recognition Based on the SenseEmotion Database. IEEE Transactions on Affective Computing, 2021, 12, 743-760. | 8.3 | 50 |
| 12 | Combining Committee-Based Semi-Supervised Learning and Active Learning. Journal of Computer Science and Technology, 2010, 25, 681-698. | 1.5 | 49 |
| 13 | Emotion recognition from speech signals via a probabilistic echo-state network. Pattern Recognition Letters, 2015, 66, 4-12. | 4.2 | 47 |
| 14 | Evaluation of modified adaptive k-means segmentation algorithm. Computational Visual Media, 2019, 5, 347-361. | 17.5 | 42 |
| 15 | Deep Learning in Selected Cancersâ€™ Image Analysisâ€”A Survey. Journal of Imaging, 2020, 6, 121. | 3.0 | 42 |
| 16 | Multimodal Emotion Classification in Naturalistic User Behavior. Lecture Notes in Computer Science, 2011, , 603-611. | 1.3 | 40 |
| 17 | Multimodal Data Fusion for Person-Independent, Continuous Estimation of Pain Intensity. Communications in Computer and Information Science, 2015, , 275-285. | 0.5 | 40 |
| 18 | Exploring Deep Physiological Models for Nociceptive Pain Recognition. Sensors, 2019, 19, 4503. | 3.8 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Bio-Visual Fusion for Person-Independent Recognition of Pain Intensity. Lecture Notes in Computer Science, 2015, , 220-230. | 1.3 | 39 |
| 20 | Semi-supervised Learning. Intelligent Systems Reference Library, 2013, , 215-239. | 1.2 | 39 |
| 21 | Spotting laughter in natural multiparty conversations. ACM Transactions on Interactive Intelligent Systems, 2012, 2, 1-31. | 3.7 | 37 |
| 22 | A generic framework for the inference of user states in human computer interaction. Journal on Multimodal User Interfaces, 2012, 6, 117-141. | 2.9 | 36 |
| 23 | Semi-supervised learning for tree-structured ensembles of RBF networks with Co-Training. Neural Networks, 2010, 23, 497-509. | 5.9 | 34 |
| 24 | Prediction of COVID-19 from Chest CT Images Using an Ensemble of Deep Learning Models. Applied Sciences (Switzerland), 2021, 11, 7004. | 2.5 | 34 |
| 25 | Decision templates for the classification of bioacoustic time series. Information Fusion, 2003, 4, 101-109. | 19.1 | 33 |
| 26 | Inferring Depression and Affect from Application Dependent Meta Knowledge. , 2014, , . | | 32 |
| 27 | Fusion paradigms in cognitive technical systems for humanâ€“computer interaction. Neurocomputing, 2015, 161, 17-37. | 5.9 | 31 |
| 28 | The SenseEmotion Database: A Multimodal Database for the Development and Systematic Validation of an Automatic Pain- and Emotion-Recognition System. Lecture Notes in Computer Science, 2017, , 127-139. | 1.3 | 30 |
| 29 | Ensemble Gaussian mixture models for probability density estimation. Computational Statistics, 2013, 28, 127-138. | 1.5 | 29 |
| 30 | Neural Network Ensembles in Reinforcement Learning. Neural Processing Letters, 2015, 41, 55-69. | 3.2 | 29 |
| 31 | Classification of bioacoustic time series based on the combination of global and local decisions. Pattern Recognition, 2004, 37, 2293-2305. | 8.1 | 28 |
| 32 | Classification of Mammograms Using Texture and CNN Based Extracted Features. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 42, 79-97. | 0.5 | 28 |
| 33 | Classifier Fusion for Emotion Recognition from Speech. , 2009, , 95-117. | | 26 |
| 34 | Using unlabeled data to improve classification of emotional states in human computer interaction. Journal on Multimodal User Interfaces, 2014, 8, 5-16. | 2.9 | 25 |
| 35 | Two-Stream Attention Network for Pain Recognition from Video Sequences. Sensors, 2020, 20, 839. | 3.8 | 25 |
| 36 | Ship classification based on trajectory data with machine-learning methods. , 2018, , . | | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Real-Time Emotion Recognition from Speech Using Echo State Networks. Lecture Notes in Computer Science, 2008, , 205-216. | 1.3 | 24 |
| 38 | Fuzzy-Input Fuzzy-Output One-Against-All Support Vector Machines. , 2007, , 156-165. | | 23 |
| 39 | Ensemble Methods for Continuous Affect Recognition. , 2015, , . | | 23 |
| 40 | Computer Aided Breast Cancer Detection Using Ensembling of Texture and Statistical Image Features. Sensors, 2021, 21, 3628. | 3.8 | 23 |
| 41 | Radial Basis Function Networks for Convolutional Neural Networks to Learn Similarity Distance Metric and Improve Interpretability. IEEE Access, 2020, 8, 123087-123097. | 4.2 | 22 |
| 42 | Kalman Filter Based Classifier Fusion for Affective State Recognition. Lecture Notes in Computer Science, 2013, , 85-94. | 1.3 | 22 |
| 43 | Multi-Modal Classifier-Fusion for the Recognition of Emotions. , 2013, , 73-97. | | 21 |
| 44 | Machine Learning in Cereal Crops Disease Detection: A Review. Algorithms, 2022, 15, 75. | 2.1 | 21 |
| 45 | Classification of Mammograms Using Convolutional Neural Network Based Feature Extraction. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 89-98. | 0.3 | 20 |
| 46 | The uulmMAC Databaseâ€"A Multimodal Affective Corpus for Affective Computing in Human-Computer Interaction. Sensors, 2020, 20, 2308. | 3.8 | 20 |
| 47 | Radial basis function neural networks and temporal fusion for the classification of bioacoustic time series. Neurocomputing, 2003, 51, 265-275. | 5.9 | 19 |
| 48 | Tree-Structured Support Vector Machines for Multi-class Pattern Recognition. Lecture Notes in Computer Science, 2001, , 409-417. | 1.3 | 19 |
| 49 | Multiple Classifier Systems for the Recogonition of Human Emotions. Lecture Notes in Computer Science, 2010, , 315-324. | 1.3 | 19 |
| 50 | Pain recognition with camera photoplethysmography. , 2017, , . | | 18 |
| 51 | Multimodal Laughter Detection in Natural Discourses. Cognitive Systems Monographs, 2009, , 111-120. | 0.1 | 18 |
| 52 | Multimodal Deep Denoising Convolutional Autoencoders for Pain Intensity Classification based on Physiological Signals. , 2020, , . | | 18 |
| 53 | The GMM-SVM Supervector Approach for the Recognition of the Emotional Status from Speech. Lecture Notes in Computer Science, 2009, , 894-903. | 1.3 | 17 |
| 54 | A Multiple Classifier System Approach for Facial Expressions in Image Sequences Utilizing GMM Supervectors. , 2010, , . | | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Prosodic, Spectral and Voice Quality Feature Selection Using a Long-Term Stopping Criterion for Audio-Based Emotion Recognition. , 2014, , . | | 17 |
| 56 | Revisiting the EmotiW challenge: how wild is it really?. Journal on Multimodal User Interfaces, 2016, 10, 151-162. | 2.9 | 17 |
| 57 | Automatic pectoral muscle removal in mammograms. Evolving Systems, 2021, 12, 519-526. | 3.9 | 17 |
| 58 | A Hidden Markov Model Based Approach for Facial Expression Recognition in Image Sequences. Lecture Notes in Computer Science, 2010, , 149-160. | 1.3 | 17 |
| 59 | Multi-classifier-Systems: Architectures, Algorithms and Applications. Studies in Computational Intelligence, 2018, , 83-113. | 0.9 | 16 |
| 60 | Gray Level Image Contrast Enhancement Using Barnacles Mating Optimizer. IEEE Access, 2020, 8, 169196-169214. | 4.2 | 16 |
| 61 | Multi-Modal Pain Intensity Assessment Based on Physiological Signals: A Deep Learning Perspective. Frontiers in Physiology, 2021, 12, 720464. | 2.8 | 16 |
| 62 | Conditioned hidden Markov model fusion for multimodal classification. , 0, , . | | 16 |
| 63 | On the discovery of events in EEG data utilizing information fusion. Computational Statistics, 2013, 28, 5-18. | 1.5 | 15 |
| 64 | Multi classifier systems and forward backward feature selection algorithms to classify emotional coloured speech. , 2013, , . | | 15 |
| 65 | Selective neural network ensembles in reinforcement learning: Taking the advantage of many agents. Neurocomputing, 2015, 169, 350-357. | 5.9 | 15 |
| 66 | CovidConvLSTM: A fuzzy ensemble model for COVID-19 detection from chest X-rays. Expert Systems With Applications, 2022, 206, 117812. | 7.6 | 15 |
| 67 | Incorporating uncertainty in a layered HMM architecture for human activity recognition. , 2011, , . | | 14 |
| 68 | Multimodal fusion including camera photoplethysmography for pain recognition. , 2017, , . | | 14 |
| 69 | Emotion Recognition from Speech Using Multi-Classifier Systems and RBF-Ensembles. Studies in Computational Intelligence, 2008, , 49-70. | 0.9 | 14 |
| 70 | Automated annotation of Orthoptera songs: first results from analysing the DORSA sound repository. Journal of Orthoptera Research, 2006, 15, 105-113. | 1.0 | 13 |
| 71 | Multiple classifier combination using reject options and markov fusion networks. , 2012, , . | | 13 |
| 72 | Cascaded Fusion of Dynamic, Spatial, and Textural Feature Sets for Person-Independent Facial Emotion Recognition. , 2014, , . | | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Multi-modal data fusion for pain intensity assessment and classification. , 2017, , . | | 13 |
| 74 | Feature Selection for Recognition of Online Handwritten Bangla Characters. Neural Processing Letters, 2019, 50, 2281-2304. | 3.2 | 13 |
| 75 | Ensemble of Deep Learning Models for Sleep Apnea Detection: An Experimental Study. Sensors, 2021, 21, 5425. | 3.8 | 13 |
| 76 | Ensemble Methods for Reinforcement Learning with Function Approximation. Lecture Notes in Computer Science, 2011, , 56-65. | 1.3 | 12 |
| 77 | Combination of sequential class distributions from multiple channels using Markov fusion networks. Journal on Multimodal User Interfaces, 2014, 8, 257-272. | 2.9 | 12 |
| 78 | Comparison of Multiclass SVM Decomposition Schemes for Visual Object Recognition. Lecture Notes in Computer Science, 2005, , 334-341. | 1.3 | 12 |
| 79 | Classifier Based Breast Cancer Segmentation. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 47, 41-61. | 0.5 | 12 |
| 80 | Data fusion for automated pain recognition. , 2015, , . | | 11 |
| 81 | Using Radial Basis Function Neural Networks for Continuous and Discrete Pain Estimation from Bio-physiological Signals. Lecture Notes in Computer Science, 2016, , 269-284. | 1.3 | 11 |
| 82 | Support Vector Regression of Sparse Dictionary-Based Features for View-Independent Action Unit Intensity Estimation. , 2017, , . | | 11 |
| 83 | Trace and Detect Adversarial Attacks on CNNs Using Feature Response Maps. Lecture Notes in Computer Science, 2018, , 346-358. | 1.3 | 11 |
| 84 | A novel segmentation technique for online handwritten Bangla words. Pattern Recognition Letters, 2020, 139, 26-33. | 4.2 | 11 |
| 85 | Semi-supervised Learning for Regression with Co-training by Committee. Lecture Notes in Computer Science, 2009, , 121-130. | 1.3 | 11 |
| 86 | Ordinal Classification: Working Definition and Detection of Ordinal Structures. IEEE Access, 2020, 8, 164380-164391. | 4.2 | 10 |
| 87 | Orientation Histograms for Face Recognition. Lecture Notes in Computer Science, 2006, , 253-259. | 1.3 | 10 |
| 88 | Fusion of Fragmentary Classifier Decisions for Affective State Recognition. Lecture Notes in Computer Science, 2013, , 116-130. | 1.3 | 10 |
| 89 | Detection of Emotional Events utilizing Support Vector Methods in an Active Learning HCI Scenario. , 2014, , . | | 9 |
| 90 | Continuous Multimodal Human Affect Estimation using Echo State Networks. , 2016, , . | | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Median Filter Aided CNN Based Image Denoising: An Ensemble Approach. Algorithms, 2021, 14, 109. | 2.1 | 9 |
| 92 | Active Multi-Instance Multi-Label Learning. Studies in Classification, Data Analysis, and Knowledge Organization, 2016, , 91-101. | 0.2 | 8 |
| 93 | A Temporal Dependency Based Multi-modal Active Learning Approach for Audiovisual Event Detection. Neural Processing Letters, 2018, 48, 709-732. | 3.2 | 8 |
| 94 | Off the Mainstream: Advances in Neural Networks and Machine Learning for Pattern Recognition. Neural Processing Letters, 2018, 48, 643-648. | 3.2 | 8 |
| 95 | Artificial Development by Reinforcement Learning Can Benefit From Multiple Motivations. Frontiers in Robotics and AI, 2019, 6, 6. | 3.2 | 8 |
| 96 | A Framework for Emotions and Dispositions in Man-Companion Interaction. , 2013, , 99-140. | | 8 |
| 97 | Learning a Strategy with Neural Approximated Temporal-Difference Methods in English Draughts. , 2010, , . | | 7 |
| 98 | Spectral graph features for the classification of graphs and graph sequences. Computational Statistics, 2014, 29, 65-80. | 1.5 | 7 |
| 99 | Dropout Induced Noise for Co-Creative GAN Systems. , 2019, , . | | 7 |
| 100 | Next-Generation Neural Networks: Capsule Networks With Routing-by-Agreement for Text Classification. IEEE Access, 2021, 9, 125269-125299. | 4.2 | 7 |
| 101 | Using Dempster-Shafer Theory in MCF Systems to Reject Samples. Lecture Notes in Computer Science, 2005, , 118-127. | 1.3 | 7 |
| 102 | Hierarchical Neural Networks Utilising Dempster-Shafer Evidence Theory. Lecture Notes in Computer Science, 2006, , 198-209. | 1.3 | 7 |
| 103 | Audio-Visual Recognition of Pain Intensity. Lecture Notes in Computer Science, 2017, , 110-126. | 1.3 | 7 |
| 104 | Meta-Learning of Exploration and Exploitation Parameters with Replacing Eligibility Traces. Lecture Notes in Computer Science, 2013, , 68-79. | 1.3 | 7 |
| 105 | Enhanced Autocorrelation in Real World Emotion Recognition. , 2014, , . | | 6 |
| 106 | Semi-supervised clustering of large data sets with kernel methods. Pattern Recognition Letters, 2014, 37, 78-84. | 4.2 | 6 |
| 107 | Fusion Mappings for Multimodal Affect Recognition. , 2015, , . | | 6 |
| 108 | uulmMAD â€“ A Human Action Recognition Dataset for Ground-Truth Evaluation and Investigation of View Invariances. Lecture Notes in Computer Science, 2015, , 77-91. | 1.3 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Inferring mental overload based on postural behavior and gestures. , 2016, , . | | 6 |
| 110 | Machine Learning Driven Heart Rate Detection with Camera Photoplethysmography in Time Domain. Lecture Notes in Computer Science, 2016, , 324-334. | 1.3 | 6 |
| 111 | Going Further in Affective Computing: How Emotion Recognition Can Improve Adaptive User Interaction. Intelligent Systems Reference Library, 2016, , 73-103. | 1.2 | 6 |
| 112 | Evolutionary Algorithms for the Design of Neural Network Classifiers for the Classification of Pain Intensity. Lecture Notes in Computer Science, 2019, , 84-100. | 1.3 | 6 |
| 113 | Using a Quartile-based Data Transformation for Pain Intensity Classification based on the SenseEmotion Database. , 2019, , . | | 6 |
| 114 | Experiments with Supervised Fuzzy LVQ. Lecture Notes in Computer Science, 2008, , 125-132. | 1.3 | 6 |
| 115 | Studying Self- and Active-Training Methods for Multi-feature Set Emotion Recognition. Lecture Notes in Computer Science, 2012, , 19-31. | 1.3 | 6 |
| 116 | Atlas - Annotation tool using partially supervised learning and multi-view co-learning in human-computer-interaction scenarios. , 2012, , . | | 5 |
| 117 | The Influence of Annotation, Corpus Design, and Evaluation on the Outcome of Automatic Classification of Human Emotions. Frontiers in ICT, 2016, 3, . | 3.6 | 5 |
| 118 | A functional data analysis approach for continuous 2-D emotion annotations. Web Intelligence, 2019, 17, 41-52. | 0.2 | 5 |
| 119 | On Annotation and Evaluation of Multi-modal Corpora in Affective Human-Computer Interaction. Lecture Notes in Computer Science, 2015, , 35-44. | 1.3 | 5 |
| 120 | Decision Templates Based RBF Network for Tree-Structured Multiple Classifier Fusion. Lecture Notes in Computer Science, 2009, , 92-101. | 1.3 | 5 |
| 121 | Semi-supervised Facial Expressions Annotation Using Co-Training with Fast Probabilistic Tri-Class SVMs. Lecture Notes in Computer Science, 2010, , 70-75. | 1.3 | 5 |
| 122 | Revisiting AVEC 2011 â€“ An Information Fusion Architecture. Smart Innovation, Systems and Technologies, 2013, , 385-393. | 0.6 | 5 |
| 123 | JUMRv1: A Sentiment Analysis Dataset for Movie Recommendation. Applied Sciences (Switzerland), 2021, 11, 9381. | 2.5 | 5 |
| 124 | Recognizing User Preferences Based on Layered Activity Recognition and First-Order Logic. , 2013, , . | | 4 |
| 125 | Hidden Markov models with graph densities for action recognition. , 2013, , . | | 4 |
| 126 | Ensembles of Support Vector Data Description for Active Learning Based Annotation of Affective Corpora. , 2015, , . | | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Deep Learning Algorithms for Emotion Recognition on Low Power Single Board Computers. Lecture Notes in Computer Science, 2019, , 59-70. | 1.3 | 4 |
| 128 | Combining Deep and Hand-Crafted Features for Audio-Based Pain Intensity Classification. Lecture Notes in Computer Science, 2019, , 49-58. | 1.3 | 4 |
| 129 | Deep Domain Adaptation for Facial Expression Analysis. , 2019, , . | | 4 |
| 130 | Object Classification Using Simple, Colour Based Visual Attention and a Hierarchical Neural Network for Neuro-symbolic Integration. Lecture Notes in Computer Science, 1999, , 267-279. | 1.3 | 4 |
| 131 | A New Multi-class Fuzzy Support Vector Machine Algorithm. Lecture Notes in Computer Science, 2014, , 153-164. | 1.3 | 4 |
| 132 | Fusion Architectures for Multimodal Cognitive Load Recognition. Lecture Notes in Computer Science, 2017, , 36-47. | 1.3 | 4 |
| 133 | Combining Committee-Based Semi-supervised and Active Learning and Its Application to Handwritten Digits Recognition. Lecture Notes in Computer Science, 2010, , 225-234. | 1.3 | 4 |
| 134 | Real-Time Emotion Recognition Using Echo State Networks. Lecture Notes in Computer Science, 2008, , 200-204. | 1.3 | 4 |
| 135 | Integral representation of normalized weak Markov systems. Journal of Approximation Theory, 1992, 68, 1-24. | 0.8 | 3 |
| 136 | A Multi-objective Genetic Algorithm for Pruning Support Vector Machines. , 2011, , . | | 3 |
| 137 | Automatic emotion classification vs. human perception: Comparing machine performance to the human benchmark. , 2012, , . | | 3 |
| 138 | Using speaker group dependent modelling to improve fusion of fragmentary classifier decisions. , 2013, , . | | 3 |
| 139 | Emotion Recognition from Speech. Cognitive Technologies, 2017, , 409-428. | 0.8 | 3 |
| 140 | Selecting Features from Foreign Classes. Lecture Notes in Computer Science, 2018, , 66-77. | 1.3 | 3 |
| 141 | Visualizing Facial Expression Features of Pain and Emotion Data. Lecture Notes in Computer Science, 2019, , 101-115. | 1.3 | 3 |
| 142 | Dominant Channel Fusion Architectures - An Intelligent Late Fusion Approach. , 2020, , . | | 3 |
| 143 | Introducing Bidirectional Ordinal Classifier Cascades Based on a Pain Intensity Recognition Scenario. Lecture Notes in Computer Science, 2021, , 773-787. | 1.3 | 3 |
| 144 | Using Meta Labels for the Training of Weighting Models in a Sample-Specific Late Fusion Classification Architecture. , 2021, , . | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Sensor-Fusion in Neural Networks. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 299-306. | 0.2 | 3 |
| 146 | Neural Approximation of Monte Carlo Policy Evaluation Deployed in Connect Four. Lecture Notes in Computer Science, 2008, , 90-100. | 1.3 | 3 |
| 147 | Classifier Fusion Applied to Facial Expression Recognition: An Experimental Comparison. Cognitive Systems Monographs, 2009, , 121-129. | 0.1 | 3 |
| 148 | Attention-Gated Reinforcement Learning in Neural Networksâ€"A Unified View. Lecture Notes in Computer Science, 2013, , 272-279. | 1.3 | 3 |
| 149 | Person Identification based on Physiological Signals: Conditions and Risks. , 2020, , . | | 3 |
| 150 | A Theoretical Approach to Ordinal Classification: Feature Space-Based Definition and Classifier-Independent Detection of Ordinal Class Structures. Applied Sciences (Switzerland), 2022, 12, 1815. | 2.5 | 3 |
| 151 | An elementary proof of the oscillation lemma for weak Markov systems. Journal of Approximation Theory, 1989, 59, 73-75. | 0.8 | 2 |
| 152 | Preface of pattern recognition in human computer interaction. Pattern Recognition Letters, 2015, 66, 1-3. | 4.2 | 2 |
| 153 | Multimodal Affect Recognition in the Context of Human-Computer Interaction for Companion-Systems. Cognitive Technologies, 2017, , 387-408. | 0.8 | 2 |
| 154 | Binary Classification: Counterbalancing Class Imbalance by Applying Regression Models in Combination with One-sided Label Shifts. , 2021, , . | | 2 |
| 155 | Filter Method Ensemble with Neural Networks. Lecture Notes in Computer Science, 2019, , 755-765. | 1.3 | 2 |
| 156 | Pain Intensity Recognition - An Analysis of Short-Time Sequences in a Real-World Scenario. Lecture Notes in Computer Science, 2020, , 149-161. | 1.3 | 2 |
| 157 | Majority-Class Aware Support Vector Domain Oversampling for Imbalanced Classification Problems. Lecture Notes in Computer Science, 2014, , 83-92. | 1.3 | 2 |
| 158 | Multi-modal Information Processing in Companion-Systems: A Ticket Purchase System. Cognitive Technologies, 2017, , 493-500. | 0.8 | 2 |
| 159 | Bimodal Recognition of Cognitive Load Based on Speech and Physiological Changes. Lecture Notes in Computer Science, 2017, , 12-23. | 1.3 | 2 |
| 160 | Hierarchical Object Classification for Autonomous Mobile Robots. Lecture Notes in Computer Science, 2002, , 831-836. | 1.3 | 2 |
| 161 | Subject-independent Pain Recognition using Physiological Signals and Para-linguistic Vocalizations. , 2020, , . | | 2 |
| 162 | On Gestures and Postural Behavior as a Modality in Ensemble Methods. Lecture Notes in Computer Science, 2016, , 312-323. | 1.3 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Personalized k-fold Cross-Validation Analysis with Transfer from Phasic to Tonic Pain Recognition on X-ITE Pain Database. Lecture Notes in Computer Science, 2021, , 788-802. | 1.3 | 1 |
| 164 | Parallelized Kernel Patch Clustering. Lecture Notes in Computer Science, 2010, , 131-140. | 1.3 | 1 |
| 165 | Maximum Echo-State-Likelihood Networks for Emotion Recognition. Lecture Notes in Computer Science, 2010, , 60-71. | 1.3 | 1 |
| 166 | A Reinforcement Learning Algorithm to Train a Tetris Playing Agent. Lecture Notes in Computer Science, 2014, , 165-170. | 1.3 | 1 |
| 167 | Audio-Visual User Identification in HCI Scenarios. Lecture Notes in Computer Science, 2015, , 113-122. | 1.3 | 1 |
| 168 | Using Mask R-CNN for Image-Based Wear Classification of Solid Carbide Milling and Drilling Tools. Lecture Notes in Computer Science, 2020, , 223-234. | 1.3 | 1 |
| 169 | Multi-view video based tracking and audio-visual identification of persons in a human-computer-interaction scenario. , 2013, , . | | 0 |
| 170 | Keynote: Machine learning and data analysis of multimodal affective and pain data. , 2021, , . | | 0 |
| 171 | Two to Trust: AutoML for Safe Modelling and Interpretable Deep Learning for Robustness. Lecture Notes in Computer Science, 2021, , 268-275. | 1.3 | 0 |
| 172 | On Graph-Associated Matrices and Their Eigenvalues for Optical Character Recognition. Lecture Notes in Computer Science, 2012, , 104-114. | 1.3 | 0 |
| 173 | The Effect of Fuzzy Training Targets on Voice Quality Classification. Lecture Notes in Computer Science, 2013, , 43-51. | 1.3 | 0 |
| 174 | Monte Carlo Based Importance Estimation of Localized Feature Descriptors for the Recognition of Facial Expressions. Lecture Notes in Computer Science, 2015, , 34-42. | 1.3 | 0 |