REF 2014: Research outputs (REF2) (sorted by title)

11 - Computer Science and Informatics

<u>2D co-ordinate transformation based on a spike timing-dependent plasticity learning mechanism.</u> Neural Networks, 21 (9). pp. 1318-1327. [Journal article]

<u>A Context-based Word Indexing Model for Document Summarization.</u> IEEE Transactions on Knowledge and Data Engineering, 25 (8). pp. 1693-1705. [Journal article]

<u>A Fusion Approach for Efficient Human Skin Detection.</u> IEEE Transactions on Industrial Informatics, 8 (1). pp. 138-147. [Journal article]

<u>A Hash-based Optical Image Encryption Algorithm.</u> Optics Communications Journal, 283 (6). pp. 879-893. [Journal article]

<u>A Knowledge-Driven Approach to Activity Recognition in Smart Homes.</u> IEEE Transactions on Knowledge and Data Engineering, IEEE computer Society , 14 pp, DOI: <u>10.1109/TKDE.2011.51</u> [Internet publication]

<u>A knowledge-driven probabilistic framework for the prediction of protein-protein interaction networks.</u> Computers in Biology and Medicine, 40 (3). pp. 306-317. [Journal article]

<u>A least angle regression method for fMRI activation detection in phase-encoded experimental designs.</u> NeuroImage, 52 (4). pp. 1390-1400. [Journal article]

<u>A Least Trimmed Square Regression Method for Second Level fMRI Effective Connectivity Analysis.</u> Neuroinformatics, 11 (1). pp. 105-118. [Journal article]

A machine learning approach to assessing gait patterns for Complex Regional Pain Syndrome. Medical Engineering & Physics, 34 (6). pp. 740-746. [Journal article]

<u>A Mobile Multimedia Technology to Aid Those with Alzheimer's Disease.</u> IEEE Multimedia, 17 (2). pp. 42-51. [Journal article]

<u>A model selection method for nonlinear system identification based fMRI effective connectivity analysis.</u> IEEE Transactions on Medical Imaging, 30 (7). pp. 1365-1380. [Journal article]

A modeling framework that combines Markov models and discrete-event simulation for stroke patient care. ACM Transactions on Modeling and Computer Simulation (TOMACS), 21(4) (25). [Journal article]

<u>A Modular Fuzzy Control Approach for Two-wheeled Wheelchair.</u> Journal of Intelligent and Robotic Systems, 64 (3-4). pp. 401-426. [Journal article]

<u>A multi-dimensional sequence approach to measuring tree similarity.</u> IEEE Transactions on Knowledge and Data Engineering, 24 (2). pp. 197-208. [Journal article]

A multi-objective combinatorial model of casualty processing in major incident response. European Journal of Operational Research, 230 (3). pp. 643-655. [Journal article]

<u>A Novel Approach to Digital Watermarking, Exploiting Colour Spaces.</u> Signal Processing, 93 (4). pp. 44-46. [Journal article]

A Novel Belief Rule Base Representation, Generation and Its Inference Methodology. Knowledge-Based Systems, 2013 online (Internet publication). [Journal article]

<u>A Practical Network Coding and Routing Scheme based on Maximum Flow Combination.</u> International Journal of Network Management, 22 (4). pp. 373-396. [Journal article]

<u>A predictive model for assistive technology adoption for people with dementia.</u> IEEE Journal of Biomedical and Health Informatics1 pp, DOI: <u>10.1109/JBHI.2013.2267549</u> [Internet publication]

<u>A robust sensor selection method for P300 Brain-Computer Interfaces.</u> Journal of Neural Engineering, 8 . pp. 1-12. [Journal article]

<u>A Secure and Improved Self-Embedding Algorithm To Combat Digital Document Forgery.</u> Signal Processing, Special Section: Visual Information Analysis for Security, 89 (12). pp. 2324-2332. [Journal article]

<u>A Self-Paced and Calibration-Less SSVEP-Based Brain-Computer Interface Speller.</u> IEEE Transactions on Neural Systems and Rehabilitation Engineering, 18 (2). pp. 127-133. [Journal article]

<u>A Self-Similarity Approach to Repairing Large Dropouts of Streamed Music.</u> ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), 9 (3). pp. 20-40. [Journal article]

<u>A Single Network Adaptive Critic based Redundancy Resolution Scheme for Robot Manipulators.</u> IEEE Transactions on Industrial Electronics, 59 (8). pp. 3241-3253. [Journal article]

<u>A Skin Tone Detection Algorithm for an Adaptive Approach to Steganography.</u> Journal of Signal Processing, Special Section: Visual Information Analysis for Security, 89 (12). pp. 2465-2478. [Journal article]

<u>A Space Variant Gradient Based Corner Detector for Sparse Omnidirectional Images.</u> Journal of Mathematical Imaging and Vision. , 38 (2). pp. 119-131. [Journal article]

<u>A stability approach to convergence of curve evolution methods.</u> Pattern Recognition Letters, 31 (13). pp. 1909-1918. [Journal article]

<u>A steering taxis model and the qualitative analysis of its trajectories.</u> Adaptive Behavior, 17 (3). pp. 197-211. [Journal article]

<u>A Study of Neighborhood Counting Similarity.</u> IEEE Transactions on Knowledge and Data Engineering, 20 (4). pp. 449-461. [Journal article]

<u>A systematic analysis of the Braitenberg vehicle 2b for point-like stimulus sources.</u> BIOINSPIRATION & BIOMIMETICS, 7 (3). pp. 1-14. [Journal article]

A thalamo-cortico-thalamic neural mass model to study alpha rhythms in Alzheimer's disease. Neural Networks Special Issue: Neurocomputational Models of Brain Disorders, 24 (6). pp. 631-645. [Journal article]

A time-frequency convolutional neural network for the offline classification of steady-state visual evoked potential responses. Pattern Recognition Letters, 32 . pp. 1145-1153. [Journal article]

<u>A trip time model for traffic flow on a semi-closed loop.</u> Mathematical and Computer Modelling, 52 (5-6). pp. 902-917. [Journal article]

A user driven approach to develop a cognitive prosthetic to address the unmet needs of people with mild dementia. Pervasive and Mobile Computing, 5 (3). pp. 253-267. [Journal article]

<u>A velocity matching car following model on a closed ring where overtaking is allowed.</u> Nonlinear Dynamics, 58 (1-2). pp. 141-151. [Journal article]

<u>A Visual Attention Model Based on Hierarchical Spiking Neural Networks.</u> Neurocomputing , 116 . pp. 3-12. [Journal article]

Advancing Interconnect Density for Spiking Neural Network Hardware Implementations using Traffic-Aware Adaptive Network-on-Chip Routers. Neural Networks, 33 (2012). pp. 42-57. [Journal article]

Algebraic polynomials with random non-symmetric coefficients. Statistics and Probability Letters, 78 (1). pp. 1305-1313. [Journal article]

<u>Algorithms and pipeline architectures for 2-D FFT and FFT-like transforms.</u> Digital Signal Processing, 20 (4). pp. 1072-1086. [Journal article]

<u>Algorithms for Subsequence Combinatorics.</u> Theoretical Computer Science, 409 (3). pp. 394-404. [Journal article]

<u>An application of Lyapunov stability analysis to improve the performance of NARMAX models.</u> Robotics and Autonomous Systems, 58 . pp. 229-238. [Journal article]

An Efficient and Robust Name Resolution Protocol for Dynamic MANETs. Ad Hoc Networks, 8 (8). pp. 842-856. [Journal article]

An Efficient Method for Modeling Kinetic Behavior of Channel Proteins in Cardiomyocytes. IEEE/ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS,, 9 (1). pp. 40-51. [Journal article]

<u>An improved palmprint recognition system using iris features.</u> Journal of Real-Time Image Processing , 8 (3). pp. 253-263. [Journal article]

<u>An ontological framework for activity monitoring and reminder reasoning in an assisted environment.</u> Journal Ambient Intelligence and Humanized Computing, Springer Berlin / Heidelberg, UNSPECIFIED pp, DOI: <u>10.1007/s12652-011-0063-1</u> [Internet publication]

<u>An optimal control strategy for two-dimensional motion camouflage with non-holonimic constraints.</u> Biological Cibernetics, 106 (4-5). pp. 261-270. [Journal article]

An optimization of ReliefF for classification in large datasets. Data & Knowledge Engineering, 68 (11). pp. 1348-1356. [Journal article]

Applying statistical principles to data fusion in information retrieval. Expert Syst. Appl., 36 (2). pp. 2997-3006. [Journal article]

Assigning appropriate weights for the linear combination data fusion method in information retrieval. Inf. Process. Manage., 45 (4). pp. 413-426. [Journal article]

<u>Bayesian Self-Organizing Map for Data Classification and Clustering.</u> International Journal of Wavelets, Multiresolution and Information Processing, World Scientific, 12 pp, DOI: 10.1142/S0219691313500379 [Internet publication]

Bidirectional Coupling between Astrocytes and Neurons Mediates Learning and Dynamic Coordination in the Brain: A Multiple Modeling Approach. PLoS One, 6 (12). e29445. [Journal article]

<u>Biologically Inspired SNN for Robot Control.</u> IEEE Transaction on Systems, Man and Cybernetics – Part B: Cybernetics , 43 (1). pp. 115-128. [Journal article]

Bispectrum-based feature extraction technique for devising a practical brain-computer interface. Journal of Neural Engineering, 8 (2). pp. 1-12. [Journal article]

<u>Chromaticity Space for Illuminant Invariant Recognition.</u> IEEE Transactions on Image Processing, 21 (8). 3612 -3623. [Journal article]

<u>Clustering semantically heterogeneous distributed aggregate databases.</u> Knowledge and Information Systems, - . [Journal article]

<u>Clustering-Based Ensembles as an Alternative to Stacking.</u> IEEE Transactions on Knowledge and Data Engineering UNSPECIFIED pp, DOI: <u>10.1109/TKDE.2013.49</u>[Internet publication]

<u>Comparative analysis of spectral approaches to feature extraction for EEG-based motor imagery classification.</u>

IEEE transactions on neural systems and rehabilitation engineering: a publication of the IEEE Engineering in Medicine and Biology Society, 16 (4). pp. 317-26. [Journal article]

<u>Compensating for synaptic loss in Alzheimer's disease.</u> Journal of Computational Neuroscience, 36 (1). pp. 19-37. [Journal article]

<u>Confirmation measures of association rule interestingness.</u> Knowledge-Based Systems, 44 . pp. 65-77. [Journal article]

<u>Convolutional Neural Networks for P300 Detection with Application to Brain-Computer Interfaces.</u> IEEE Transactions on Pattern Analysis and Machine Intelligence, 33 (3). pp. 433-445. [Journal article]

<u>Correlation of Genomic Features With Dynamic Modularity in the Yeast Interactome: A View From the Structural Perspective.</u> IEEE Transactions on NanoBioscience, 11 (3). pp. 244-250. [Journal article]

<u>Coupling edge and region-based information for boundary finding in biomedical imagery.</u> Pattern Recognition, 45 (2). pp. 672-684. [Journal article]

<u>Decentralized Motion Coordination for a Formation of Rovers.</u> IEEE Systems Journal, 3 (3). pp. 369-381. [Journal article]

<u>Deriving Evidence Theoretical Functions in Multivariate Data Spaces: A Systematic Approach.</u> IEEE Transactions on Systems, Man, and Cybernetics Part B, 38(2) (2). pp. 455-465. [Journal article]

<u>Design of a Cable-Driven Arm Exoskeleton (CAREX) for Neural Rehabilitation.</u> IEEE TRANSACTIONS ON ROBOTICS, 28 (4). pp. 922-931. [Journal article]

<u>Determination of a-resolution in lattice-valued first-order logic LF(X).</u> Information Sciences, 181 (10). pp. 1836-1862. [Journal article]

<u>Dimension Reduction and Dynamics of a Spiking Neural Network Model for Decision Making under Neuromodulation.</u> SIAM Journal on Applied Dynamical Systems, 10 (1). pp. 148-188. [Journal article]

<u>Direct adaptive neural control for affine nonlinear systems.</u> Applied Soft Computing, 9 . pp. 756-764. [Journal article]

<u>Discontinuous periodic behaviour in a looped model of traffic dynamics.</u> Nonlinear Analysis B, 11 (2). pp. 800-808. [Journal article]

<u>Discrete vs continuous time implementation of a ring car following model in which overtaking is allowed.</u> Nonlinear Analysis B, 10 (1). pp. 437-448. [Journal article]

<u>Drug-Domain Interaction Networks in Myocardial Infarction.</u> IEEE Transactions on Nanobioscience, 12 (3). pp. 182-188. [Journal article]

Dynamic excitatory and inhibitory gain modulation can produce flexible, robust and optimal decision-making. PLoS Computational Biology, 9 (6). e1003099. [Journal article]

<u>Dynamic sensor data segmentation for real-time knowledge-driven activity recognition.</u> International Journal of Pervasive and Mobile Computing, Elsevier, UNSPECIFIED pp, DOI: 10.1016/j.pmcj.2012.11.004 [Internet publication]

<u>Edge Detecting for Range Data using Laplacian Operators.</u> IEEE Transactions on Image Processing, 19 (11). pp. 2814-2824. [Journal article]

<u>Eigenleads: ECG Leads for Maximizing Information Capture and Improving SNR.</u> IEEE Transactions on Information Technology in Biomedicine, 14 (1). pp. 69-78. [Journal article]

<u>Electrophysiological Signatures of Intentional Social Coordination in the 10-12 Hz Range.</u> NeuroImage, 59 (2). pp. 1795-1803. [Journal article]

<u>eNelator: a simulation system for large-scale vulnerability analysis of species-, disease- and process-specific protein networks.</u> Journal of Computational Science, 1 (4). pp. 197-205. [Journal article]

Enhancement of Fibre Orientation Distribution Reconstruction in Diffusion Weighted Imaging by Single Channel Blind Source Separation. IEEE Transactions on Biomedical Engineering, 59 (2). pp. 363-373. [Journal article]

<u>Estimation performance of a reduced lead system during continuous 12-lead ECG ST-segment monitoring.</u> Journal of Electrocardiology, 45 (6). pp. 604-608. [Journal article]

<u>Evaluating the generalisation capability of a CMOS based synapse.</u> Neurocomputing, 83 . pp. 188-197. [Journal article]

<u>Evidential fusion of sensor data for activity recognition in smart homes.</u> Pervasive and Mobile Computing, 5 (3). pp. 236-252. [Journal article]

Expected number of real zeros of a random polynomial with independent identically distributed symmetric long-talied coefficients. Theory of Prabability & Its Applications, 55 (1). pp. 173-181. [Journal article]

<u>Faster Self-Organizing Fuzzy Neural Network Training and a Hyperparameter Analysis for a Brain-Computer Interface.</u> IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS—PART B: CYBERNETICS, 39 (6). pp. 1458-1471. [Journal article]

Feature Selection and Classification in Supporting Report-Based Self-Management for People with Chronic Pain. IEEE Transactions on Information Technology in Biomedicine, 15 (1). pp. 54-61. [Journal article]

Feature selection for high-dimensional machinery fault diagnosis data using multiple models and Radial Basis Function networks. Neurocomputing, 74 (17). pp. 2941-2952. [Journal article]

<u>Fixed Latency On-Chip Interconnect for Hardware Spiking Neural Network Architectures.</u> Parallel Computing, 39 (9). pp. 357-371. [Journal article]

<u>Gradient Operators for Feature Extraction and Characterisation in Range Images.</u> Pattern Recognition Letters, 31 (9). pp. 1028-1040. [Journal article]

<u>Gray matter concentration and effective connectivity changes in Alzheimer's disease: a longitudinal structural MRI study.</u> Neuroradiology, 53 (10). pp. 733-748. [Journal article]

<u>Home-Based Monitoring and Assessment of Parkinson's Disease.</u> Information Technology in Biomedicine, IEEE Transactions on, 15 (1). 47 -53. [Journal article]

iGAIT: An interactive accelerometer based gait analysis system. Computer Methods and Programs in Biomedicine, 108 (2). pp. 715-723. [Journal article]

<u>Image-Based Visual Servoing of a 7-DOF Robot Manipulator Using an Adaptive Distributed Fuzzy PD Controller.</u> IEEE/ASME TRANSACTIONS ON MECHATRONICS, IEEE, UNSPECIFIED pp, DOI: <u>10.1109/TMECH.2013.2245337</u> [Internet publication]

<u>Improving pattern discovery and visualisation with self-adaptive neural networks through data transformations.</u> International Journal of Machine Learning and Cybernetics, 3 (3). pp. 173-182. [Journal article]

<u>Inference to the best explanation: does it track truth?</u> Synthese, 185 (3). pp. 411-427. [Journal article]

<u>Integrating semantically heterogeneous aggregate views of distributed databases.</u> Distributed and Parallel Databases, 24 (1-3). pp. 73-94. [Journal article]

<u>Integrating textual analysis and evidential reasoning for decision making in Engineering design.</u> Integrating textual analysis and evidential reasoning for decision making in Engineering design, 52 . pp. 165-175. [Journal article]

<u>Integration of Gene Ontology-based similarities for supporting analysis of protein-protein interaction networks.</u> Pattern Recognition Letters, 31 (14). p. 2073. [Journal article]

<u>Intelligent Patient Management and Resource Planning for Complex, Heterogeneous, and Stochastic Healthcare Systems.</u> IEEE Transactions on Systems, Man, and Cybernetics, Part A: Systems and Humans, 42 (6). pp. 1332-1345. [Journal article]

<u>Intelligent User Support in Autonomous Remote Experimentation Environments.</u> IEEE Transactions on Industrial Electronics, 55 (6). pp. 2355-2367. [Journal article]

<u>Investigating the Neural Correlates of Pathological Cortical Networks in Alzheimer's Disease Using Heterogeneous Neuronal Models.</u> IEEE Transactions on Biomedical Engineering, 59 (3). pp. 890-896. [Journal article]

<u>Iris recognition failure over time: the effects of texture.</u> Pattern Recognition, 45 . pp. 145-150. [Journal article]

Kinematic Control of a Redundant Manipulator using an inverse-forward adaptive scheme with a KSOM based hint generator. Robotics and Autonomous Systems, 58 (5). pp. 622-633. [Journal article]

<u>Linguistic Decision Making For Robot Route Learning.</u> IEEE Transactions on Neural Networks and Learning Systems, IEEE, UNSPECIFIED pp, DOI: 10.1109/TNNLS.2013.2258037 [Internet publication]

<u>Measuring Disruption in Vehicular Communications.</u> IEEE Transactions on Vehicular Technology, 60 (1). pp. 148-159. [Journal article]

<u>Modular Reinforcement Learning Architectures for Artificially Intelligent Agents in Complex Game Environments.</u> In: IEEE Computational Intelligence and Games Conference, Copenhagen. IEEE. 8 pp. [Conference contribution]

<u>Multi-ary alpha-resolution principle for a lattice-valued logic.</u> IEEE Transaction on Fuzzy Systems, 21 (5). pp. 898-912. [Journal article]

<u>Multi-scale Edge Detection on Range and Intensity Images.</u> Pattern Recognition, 44 (4). pp. 821-838. [Journal article]

<u>Neighborhood Counting Measure and Minimum Risk Metric.</u> IEEE Transactions on Pattern Analysis and Machine Intelligence, 32 (4). pp. 766-768. [Journal article]

<u>Network properties of a computational model of the dorsal raphe nucleus.</u> Neural Networks, 32 . pp. 15-25. [Journal article]

<u>On-Line Melody Extraction From Polyphonic Audio Using Harmonic Cluster Tracking.</u> IEEE TRANSACTIONS ON AUDIO, SPEECH, AND LANGUAGE PROCESSING,, 21 (3). pp. 520-530. [Journal article]

<u>Online Traffic-Aware Fault Detection for Networks-on-Chip.</u> Journal of Parallel and Distributed Systems, N/A . [Journal article]

<u>Optimising engagement for stroke rehabilitation using serious games.</u> The Visual Computer, 25 (12). pp. 1085-1099. [Journal article]

<u>Palmprint matching using feature points and SVD factorisation.</u> Digital Signal Processing, 23 (4). pp. 1154-1162. [Journal article]

<u>Pipeline Architectures for Radix-2 New Mersenne Number Transform.</u> IEEE Transactions on Circuits and Systems I: Regular Papers, 56 (8). pp. 1668-1680. [Journal article]

<u>Power control of control frames in IEEE 802.11 networks.</u> International Journal of Electronics and Communications, 65 (3). pp. 165-172. [Journal article]

<u>Prediction of Output Response Probability of Sound Environment System using Simplified Model with Stochastic Regression and Fuzzy Inference.</u> Fuzzy Information and Engineering, 5 (2). pp. 173-190. [Journal article]

<u>Probabilistic Learning from Incomplete Data for Recognition of Activities of Daily Living in Smart Homes.</u> IEEE Transactions on Information Technology in Biomedicine, 16 (3). pp. 454-462. [Journal article]

<u>Processing Sparse Panoramic Images via Space Variant Operators.</u> International Journal of Mathematical Imaging and Vision, 32 (2). pp. 349-361. [Journal article]

<u>Processing visual stimuli using hierarchical spiking neural networks.</u> Neurocomputing, 71 (10-12). pp. 2055-2068. [Journal article]

<u>Quantum Neural Network-Based EEG Filtering for a Brain-Computer Interface.</u> IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, 25 (2). pp. 278-288. [Journal article]

<u>Query Representation through Lexical Association for Information Retrieval.</u> IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, 24 (12). pp. 2260-2273. [Journal article]

<u>Real Zeros of Algebraic Polynomials with Dependent Random Coefficients.</u> Stochastic Analysis and Applications, 28 (3). pp. 558-564. [Journal article]

Real zeros of three different cases of polynomials with random coefficients. Rocky Mountain J. of Mathematics, 42 (6). pp. 1875-1892. [Journal article]

Real-time rule-based classification of player types in computer games. USER MODELING AND USER-ADAPTED INTERACTION, 23 (5). pp. 489-526. [Journal article]

<u>Receptive Field Optimisation and Supervision of a Fuzzy Spiking Neural Network.</u> Neural Networks, 24 (3). pp. 247-256. [Journal article]

Rehabilitation Exoskeleton Design: Exploring the Effect of the Anterior Lunge Degree of Freedom. IEEE TRANSACTIONS ON ROBOTICS, 29 (4). pp. 838-846. [Journal article]

Robot Assisted Gait Training With Active Leg Exoskeleton (ALEX). IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING, 17 (1). pp. 2-8. [Journal article]

<u>Scalable Hierarchical Network-on-Chip Architecture for Spiking Neural Network Hardware implementations.</u> IEEE Transactions on Parallel and Distributed Systems, 24 (12). pp. 2451-2461. [Journal article]

<u>Security Schemes for a Mobile Agent Based Network and System Management Framework.</u> Journal of Network and Systems Management, 19 . pp. 230-256. [Journal article]

<u>Segmenting sensor data for activity monitoring in smart environments.</u> Personal and Ubiquitous Computing, 17 (3). pp. 545-559. [Journal article]

<u>Selecting critical patterns based on local geometrical and statistical information.</u> IEEE Transactions on Pattern Analysis and Machine Intelligence, 33 (6). pp. 1189-1201. [Journal article]

<u>Selecting training points for one-class support vector machines.</u> Pattern Recognition Letters, 32 (11). pp. 1517-1522. [Journal article]

<u>Selection of optimal recording sites for limited lead body surface potential mapping in myocardial infarction and left ventricular hypertrophy.</u> Journal of Electrocardiology, 41 (3). pp. 264-271. [Journal article

<u>Self-tuning of fuzzy belief rule bases for engineering system safety analysis.</u> Annals of Operations Research, 163 (1). pp. 143-168. [Journal article]

<u>Sensitivity-Based Adaptive Learning Rules for Binary Feedforward Neural Networks.</u> IEEE Transactions on Neural Networks and Learning Systems, 23 (3). pp. 480-491. [Journal article]

<u>Sequential effects in two-choice reaction time tasks: decomposition and synthesis of mechanisms.</u> Neural Computation, 21 (9). pp. 2407-2436. [Journal article]

<u>Silicon-Based Dynamic Synapse With Depressing Response.</u> IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, 23 (10). pp. 1513-1525. [Journal article]

<u>Spatial-frequency data acquisition using rotational invariant pattern matching in smart environments.</u> Annals of Telecommunications - Annales des Télécommunications, 65 (9-10). pp. 557-570. [Journal article]

<u>Spatiotemporal re-organization of large-scale neural assemblies underlies bimanual coordination.</u> Neurolmage, 62 (3). pp. 1582-1592. [Journal article]

<u>Spiking Neural Network Model of Sound Localisation using the interaural intensity Difference.</u> IEEE Transactions on Neural Networks and Learning Systems, 23 (4). pp. 574-586. [Journal article]

<u>SWAT: A Spiking Neural Network Training Algorithm for Classification Problems.</u> IEEE Transactions on Neural Networks, 21 (11). pp. 1817-1830. [Journal article]

<u>Synchrony: A spiking-based mechanism for processing sensory stimuli.</u> Neural Networks, 32 . pp. 26-34. [Journal article]

Systems-based biological concordance and predictive reproducibility of gene set discovery methods in cardiovascular disease. Journal of Biomedical Informatics, 44 (4). pp. 637-647. [Journal article]

<u>The combination of multiple classifiers using an evidential reasoning approach.</u> Artificial Intelligence, 172 (15). 1731-1751. [Journal article]

<u>The impact of diversity on the accuracy of evidential classifier ensembles.</u> International Journal of Approximate Reasoning, 53 (4). pp. 584-607. [Journal article]

<u>The weighted Condorcet fusion in information retrieval.</u> Information Processing & Management, 49 (1). pp. 108-122. [Journal article]

<u>Toward an understanding of flow in video games.</u> Computers in Entertainment , 6 (2). pp. 1-27. [Journal article]

<u>Training Toddlers Seated on Mobile Robots to Drive Indoors Amidst Obstacles.</u> IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING, 19 (3). pp. 271-279. [Journal article]

<u>UAV Position Estimation and Collision Avoidance using the Extended Kalman Filter.</u> IEEE Transactions on Vehicular Technology, 62 (6). p. 2749. [Journal article]

<u>Using the dempster-shafer theory of evidence with a revised lattice structure for activity recognition.</u> IEEE Transactions on Information Technology in Biomedicine, 15 (1). pp. 74-82. [Journal article]

<u>Versatile string kernels.</u> Theoretical Computer Science, 495 . pp. 50-65. [Journal article]

<u>Virtual Partner Interaction (VPI): Exploring Novel Behaviors via Coordination Dynamics.</u> PLoS ONE, 4 (6). e5749. [Journal article]

<u>WiiPD: Objective Home Assessment of Parkinson's Disease using the Nintendo Wii Remote.</u> IEEE Transactions on Information Technology in Biomedicine, 16 (6). pp. 1304-1312. [Journal article]