# Paul F M J Verschure

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 317 papers | 7,320 citations | 81900 39 h-index | 88630 70 g-index |
| 342 all docs | 342 docs citations | 342 times ranked | 6613 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Relationship between intensity and recovery in post-stroke rehabilitation: a retrospective analysis. Journal of Neurology, Neurosurgery and Psychiatry, 2022, 93, 226-228. | 1.9 | 23 |
| 2 | Healing the Virtualizing Brain Using Virtual Reality: How Goal-Oriented, Embodied, Immersive VR Training Works. Biosystems and Biorobotics, 2022, , 575-578. | 0.3 | 0 |
| 3 | Telehealth for rehabilitation and recovery after stroke: State of the evidence and future directions. International Journal of Stroke, 2022, 17, 487-493. | 5.9 | 27 |
| 4 | Escaping from the IIT Munchausen method: Re-establishing the scientific method in the study of consciousness. Behavioral and Brain Sciences, 2022, 45, e63. | 0.7 | 0 |
| 5 | Chronic use of cannabis impairs sensory error processing in the cerebellum through endocannabinoid dysregulation. Addictive Behaviors, 2022, 131, 107297. | 3.0 | 0 |
| 6 | Future memory: a digital humanities approach for the preservation and presentation of the history of the Holocaust and Nazi crimes. Holocaust Studies, 2022, 28, 331-357. | 1.0 | 4 |
| 7 | Saccade rate is associated with recall of items in working memory. Learning and Memory, 2022, 29, 146-154. | 1.3 | 0 |
| 8 | Bringing rehabilitation home with an e-health platform to treat stroke patients: study protocol of a randomized clinical trial (RGS@home). Trials, 2022, 23, . | 1.6 | 5 |
| 9 | Curing the broken brain model of addiction: Neurorehabilitation from a systems perspective. Addictive Behaviors, 2021, 112, 106602. | 3.0 | 14 |
| 10 | Towards sample-efficient policy learning with DAC-ML. Procedia Computer Science, 2021, 190, 256-262. | 2.0 | 1 |
| 11 | Volitional learning promotes theta phase coding in the human hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 30 |
| 12 | Entorhinal mismatch: A model of self-supervised learning in the hippocampus. IScience, 2021, 24, 102364. | 4.1 | 3 |
| 13 | Epistemic Autonomy: Self-supervised Learning in the Mammalian Hippocampus. Trends in Cognitive Sciences, 2021, 25, 582-595. | 7.8 | 2 |
| 14 | Distinguishing Self, Other, and Autonomy From Visual Feedback: A Combined Correlation and Acceleration Transfer Analysis. Frontiers in Human Neuroscience, 2021, 15, 560657. | 2.0 | 1 |
| 15 | Robot regulatory behaviour based on fundamental homeostatic and allostatic principles. Procedia Computer Science, 2021, 190, 292-300. | 2.0 | 2 |
| 16 | OUP accepted manuscript. Alcohol and Alcoholism, 2021, , . | 1.6 | 1 |
| 17 | Challenging the Boundaries of the Physical Self: Distal Cues Impact Body Ownership. Frontiers in Human Neuroscience, 2021, 15, 704414. | 2.0 | 3 |
| 18 | Social cognition in individuals with schizophrenia: Ongoing randomised controlled pilot data analysis. Journal of the Neurological Sciences, 2021, 429, 119757. | 0.6 | 0 |

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|---|---|---|---|
| 19 | Supercritical dynamics at the edge-of-chaos underlies optimal decision-making. Journal of Physics Complexity, 2021, 2, 045017. | 2.2 | 3 |
| 20 | Active Learning in Digital Heritage: Introducing Geo-localisation, VR and AR atÂHolocaust Historical Sites. , 2021, , 145-176. | | 2 |
| 21 | Excitatory-Inhibitory Homeostasis and Diaschisis: Tying the Local and Global Scales in the Post-stroke Cortex. Frontiers in Systems Neuroscience, 2021, 15, 806544. | 2.5 | 10 |
| 22 | Estimating upper-extremity function from kinematics in stroke patients following goal-oriented computer-based training. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 186. | 4.6 | 3 |
| 23 | From motor to visually guided bimanual affordance learning. Adaptive Behavior, 2020, 28, 63-78. | 1.9 | 2 |
| 24 | Switching Operation Modes in the Neocortex via Cholinergic Neuromodulation. Molecular Neurobiology, 2020, 57, 139-149. | 4.0 | 4 |
| 25 | Multisensory cueing facilitates naming in aphasia. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 122. | 4.6 | 2 |
| 26 | Subjective ratings of emotive stimuli predict the impact of the COVID-19 quarantine on affective states. PLoS ONE, 2020, 15, e0237631. | 2.5 | 9 |
| 27 | Prioritized Research for the Prevention, Treatment, and Reversal of Chronic Disease: Recommendations From the Lifestyle Medicine Research Summit. Frontiers in Medicine, 2020, 7, 585744. | 2.6 | 36 |
| 28 | Collaboration Variability in Autism Spectrum Disorder. Frontiers in Human Neuroscience, 2020, 14, 559793. | 2.0 | 0 |
| 29 | Modeling the formation of social conventions from embodied real-time interactions. PLoS ONE, 2020, 15, e0234434. | 2.5 | 6 |
| 30 | Adaptive conjunctive cognitive training (ACCT) in virtual reality for chronic stroke patients: a randomized controlled pilot trial. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 42. | 4.6 | 35 |
| 31 | The Use of Social Sensorimotor Contingencies in Humanoid Robots. Lecture Notes in Computer Science, 2020, , 378-389. | 1.3 | 2 |
| 32 | Machine Morality: From Harm-Avoidance to Human-Robot Cooperation. Lecture Notes in Computer Science, 2020, , 116-127. | 1.3 | 1 |
| 33 | Cholinergic Control of Chaos and Evidence Sensitivity in a Neocortical Model of Perceptual Decision-Making. Lecture Notes in Computer Science, 2020, , 92-96. | 1.3 | 0 |
| 34 | Distributed Adaptive Control: An Ideal Cognitive Architecture Candidate for Managing a Robotic Recycling Plant. Lecture Notes in Computer Science, 2020, , 153-164. | 1.3 | 2 |
| 35 | Modeling the formation of social conventions from embodied real-time interactions. , 2020, 15, e0234434. | | 0 |
| 36 | Modeling the formation of social conventions from embodied real-time interactions. , 2020, 15, e0234434. | | 0 |

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|---|---|---|---|
| 37 | Modeling the formation of social conventions from embodied real-time interactions. , 2020, 15, e0234434. | | 0 |
| 38 | Modeling the formation of social conventions from embodied real-time interactions. , 2020, 15, e0234434. | | 0 |
| 39 | Title is missing!. , 2020, 15, e0237631. | | 0 |
| 40 | Title is missing!. , 2020, 15, e0237631. | | 0 |
| 41 | Title is missing!. , 2020, 15, e0237631. | | 0 |
| 42 | Title is missing!. , 2020, 15, e0237631. | | 0 |
| 43 | Complex network changes during a virtual reality rehabilitation protocol following stroke: a case study. , 2019, , . | | 2 |
| 44 | Modulating grid cell scale and intrinsic frequencies via slow high-threshold conductances: A simplified model. Neural Networks, 2019, 119, 66-73. | 5.9 | 2 |
| 45 | Motor Adaptation Impairment in Chronic Cannabis Users Assessed by a Visuomotor Rotation Task. Journal of Clinical Medicine, 2019, 8, 1049. | 2.4 | 9 |
| 46 | Effect of Specific Over Nonspecific VR-Based Rehabilitation on Poststroke Motor Recovery: A Systematic Meta-analysis. Neurorehabilitation and Neural Repair, 2019, 33, 112-129. | 2.9 | 133 |
| 47 | A critical time window for recovery extends beyond one-year post-stroke. Journal of Neurophysiology, 2019, 122, 350-357. | 1.8 | 100 |
| 48 | Coordinated representational reinstatement in the human hippocampus and lateral temporal cortex during episodic memory retrieval. Nature Communications, 2019, 10, 2255. | 12.8 | 52 |
| 49 | A comprehensive evaluation of emotional responsiveness in borderline personality disorder: a support for hypersensitivity hypothesis. Borderline Personality Disorder and Emotion Dysregulation, 2019, 6, 8. | 2.6 | 9 |
| 50 | Self Beyond the Body: Action-Driven and Task-Relevant Purely Distal Cues Modulate Performance and Body Ownership. Frontiers in Human Neuroscience, 2019, 13, 91. | 2.0 | 16 |
| 51 | Augmented Dyadic Therapy Boosts Recovery of Language Function in Patients With Nonfluent Aphasia. Stroke, 2019, 50, 1270-1274. | 2.0 | 21 |
| 52 | Cerebellar alterations in cannabis users: A systematic review. Addiction Biology, 2019, 24, 1121-1137. | 2.6 | 35 |
| 53 | A Hybrid Human-Robot Collaborative Environment for Recycling Electrical and Electronic Equipment. , 2019, , . | | 6 |
| 54 | Principles of Neurorehabilitation After Stroke Based on Motor Learning and Brain Plasticity Mechanisms. Frontiers in Systems Neuroscience, 2019, 13, 74. | 2.5 | 197 |

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|---|---|---|---|
| 55 | Depression Modulates Attentional Processing After Stroke. Biosystems and Biorobotics, 2019, , 702-706. | 0.3 | 2 |
| 56 | Beyond Neural Coding? Lessons from Perceptual Control Theory. Behavioral and Brain Sciences, 2019, 42, e217. | 0.7 | 3 |
| 57 | Evaluation of the Facial Expressions of a Humanoid Robot. Lecture Notes in Computer Science, 2019, , 365-368. | 1.3 | 0 |
| 58 | Latent Morality in Algorithms and Machines. Lecture Notes in Computer Science, 2019, , 309-315. | 1.3 | 3 |
| 59 | Cholinergic Behavior State-Dependent Mechanisms of Neocortical Gain Control: a Neurocomputational Study. Molecular Neurobiology, 2018, 55, 249-257. | 4.0 | 6 |
| 60 | Emotional and cognitive influences in air traffic controller tasks: An investigation using a virtual environment?. Applied Ergonomics, 2018, 69, 1-9. | 3.1 | 37 |
| 61 | DAC-h3: A Proactive Robot Cognitive Architecture to Acquire and Express Knowledge About the World and the Self. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 1005-1022. | 3.8 | 48 |
| 62 | Long-term spatial clustering in free recall. Memory, 2018, 26, 798-806. | 1.7 | 6 |
| 63 | Human Vicarious Trial and Error Is Predictive of Spatial Navigation Performance. Frontiers in Behavioral Neuroscience, 2018, 12, 237. | 2.0 | 18 |
| 64 | A computational analysis of dynamic, multi-organ inflammatory crosstalk induced by endotoxin in mice. PLoS Computational Biology, 2018, 14, e1006582. | 3.2 | 18 |
| 65 | iCub-HRI: A Software Framework for Complex Humanâ€“Robot Interaction Scenarios on the iCub Humanoid Robot. Frontiers in Robotics and AI, 2018, 5, 22. | 3.2 | 13 |
| 66 | Measuring the Complexity of Consciousness. Frontiers in Neuroscience, 2018, 12, 424. | 2.8 | 27 |
| 67 | Modeling the Opponentâ€™s Action Using Control-Based Reinforcement Learning. Lecture Notes in Computer Science, 2018, , 179-186. | 1.3 | 5 |
| 68 | Challenges of Machine Learning for Living Machines. Lecture Notes in Computer Science, 2018, , 382-386. | 1.3 | 0 |
| 69 | Insect Behavioral Evidence of Spatial Memories During Environmental Reconfiguration. Lecture Notes in Computer Science, 2018, , 415-427. | 1.3 | 4 |
| 70 | A Temporal Estimate of Integrated Information for Intracranial Functional Connectivity. Lecture Notes in Computer Science, 2018, , 403-412. | 1.3 | 2 |
| 71 | Consensus Paper: Towards a Systems-Level View of Cerebellar Function: the Interplay Between Cerebellum, Basal Ganglia, and Cortex. Cerebellum, 2017, 16, 203-229. | 2.5 | 321 |
| 72 | Spectral Modes of Network Dynamics Reveal Increased Informational Complexity Near Criticality. Procedia Computer Science, 2017, 108, 119-128. | 2.0 | 6 |

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|---|---|---|---|
| 73 | Why the Brain Might Operate Near the Edge ofÂCriticality. Lecture Notes in Computer Science, 2017, , 326-333. | 1.3 | 4 |
| 74 | Conjunctive rehabilitation of multiple cognitive domains for chronic stroke patients in virtual reality. , 2017, 2017, 947-952. | | 11 |
| 75 | The effects of silent visuomotor cueing on word retrieval in Broca's aphasies: A pilot study. , 2017, 2017, 193-199. | | 5 |
| 76 | Modeling the neural substrates of learning through conditioning: A two-phased model. IBM Journal of Research and Development, 2017, 61, 9:1-9:11. | 3.1 | 0 |
| 77 | Visuotactile integration modulates motor performance in a perceptual decision-making task. Scientific Reports, 2017, 7, 3333. | 3.3 | 17 |
| 78 | The perceptual shaping of anticipatory actions. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171780. | 2.6 | 15 |
| 79 | Embodied artificial intelligence through distributed adaptive control: An integrated framework. , 2017, , . | | 8 |
| 80 | Analyzing children's expectations from robotic companions in educational settings. , 2017, , . | | 9 |
| 81 | A Spatial-Context Effect in Recognition Memory. Frontiers in Behavioral Neuroscience, 2017, 11, 143. | 2.0 | 30 |
| 82 | Size Matters: How Scaling Affects the Interaction between Grid and Border Cells. Frontiers in Computational Neuroscience, 2017, 11, 65. | 2.1 | 13 |
| 83 | Linear distributed source modeling of local field potentials recorded with intra-cortical electrode arrays. PLoS ONE, 2017, 12, e0187490. | 2.5 | 4 |
| 84 | Consciousness as an Evolutionary Game-Theoretic Strategy. Lecture Notes in Computer Science, 2017, , 509-514. | 1.3 | 7 |
| 85 | Domiciliary VR-Based Therapy for Functional Recovery and Cortical Reorganization: Randomized Controlled Trial in Participants at the Chronic Stage Post Stroke. JMIR Serious Games, 2017, 5, e15. | 3.1 | 44 |
| 86 | Behavior-State Dependent Modulation of Perception Based on a Model of Conditioning. Lecture Notes in Computer Science, 2017, , 387-393. | 1.3 | 0 |
| 87 | Adaptively Learning Levels of Coordination from Oneâ€™s, Otherâ€™s and Task Related Errors Through a Cerebellar Circuit: A Dual Cart-Pole Setup. Lecture Notes in Computer Science, 2017, , 309-316. | 1.3 | 0 |
| 88 | An Interactive Space as a Creature. International Journal of Virtual and Augmented Reality, 2017, 1, 1-15. | 0.8 | 3 |
| 89 | Discrepancies between Multi-Electrode LFP and CSD Phase-Patterns: A Forward Modeling Study. Frontiers in Neural Circuits, 2016, 10, 51. | 2.8 | 20 |
| 90 | The Impact of Cortical Lesions on Thalamo-Cortical Network Dynamics after Acute Ischaemic Stroke: A Combined Experimental and Theoretical Study. PLoS Computational Biology, 2016, 12, e1005048. | 3.2 | 26 |

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| 91 | Differential neural mechanisms for early and late prediction error detection. Scientific Reports, 2016, 6, 24350. | 3.3 | 11 |
| 92 | The global dynamical complexity of the human brain network. Applied Network Science, 2016, 1, 16. | 1.5 | 17 |
| 93 | High Integrated Information in Complex Networks Near Criticality. Lecture Notes in Computer Science, 2016, , 184-191. | 1.3 | 12 |
| 94 | Counteracting learned non-use in chronic stroke patients with reinforcement-induced movement therapy. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 74. | 4.6 | 69 |
| 95 | Plasticity in the Granular Layer Enhances Motor Learning in a Computational Model of the Cerebellum. Lecture Notes in Computer Science, 2016, , 272-279. | 1.3 | 0 |
| 96 | Scaling Properties of Human Brain Functional Networks. Lecture Notes in Computer Science, 2016, , 107-114. | 1.3 | 2 |
| 97 | Synthetic consciousness: the distributed adaptive control perspective. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150448. | 4.0 | 30 |
| 98 | The EASEL Project: Towards Educational Human-Robot Symbiotic Interaction. Lecture Notes in Computer Science, 2016, , 297-306. | 1.3 | 16 |
| 99 | Towards a Synthetic Tutor Assistant: The EASEL Project and its Architecture. Lecture Notes in Computer Science, 2016, , 353-364. | 1.3 | 11 |
| 100 | Two possible driving forces supporting the evolution of animal communication. Physics of Life Reviews, 2016, 16, 88-90. | 2.8 | 3 |
| 101 | Computing Information Integration in Brain Networks. Lecture Notes in Computer Science, 2016, , 136-146. | 1.3 | 9 |
| 102 | Navigate the Unknown: Implications of Grid-Cells â€œMental Travelâ€•in Vicarious Trial and Error. Lecture Notes in Computer Science, 2016, , 251-262. | 1.3 | 4 |
| 103 | On Three Categories of Conscious Machines. Lecture Notes in Computer Science, 2016, , 389-392. | 1.3 | 10 |
| 104 | Towards Self-controlled Robots Through Distributed Adaptive Control. Lecture Notes in Computer Science, 2016, , 490-497. | 1.3 | 2 |
| 105 | Synaptogenesis: Constraining Synaptic Plasticity Based on a Distance Rule. Lecture Notes in Computer Science, 2016, , 28-35. | 1.3 | 2 |
| 106 | The Affective Slider: A Digital Self-Assessment Scale for the Measurement of Human Emotions. PLoS ONE, 2016, 11, e0148037. | 2.5 | 223 |
| 107 | Mapping the Language Connectome in Healthy Subjects and Brain Tumor Patients. Lecture Notes in Computer Science, 2016, , 83-90. | 1.3 | 1 |
| 108 | Learning to Balance While Reaching: A Cerebellar-Based Control Architecture for a Self-balancing Robot. Lecture Notes in Computer Science, 2016, , 214-226. | 1.3 | 0 |

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| 109 | Modulating Learning Through Expectation in a Simulated Robotic Setup. Lecture Notes in Computer Science, 2016, , 400-408. | 1.3 | 0 |
| 110 | Autonomous development of turn-taking behaviors in agent populations: A computational study. , 2015, , . | | 7 |
| 111 | A location-based Augmented Reality system for the spatial interaction with historical datasets. , 2015, , . | | 13 |
| 112 | Reinforcement-induced movement therapy: A novel approach for overcoming learned non-use in chronic stroke patients. , 2015, , . | | 10 |
| 113 | Connectomics to Semantomics: Addressing the Brain's Big Data Challenge1. Procedia Computer Science, 2015, 53, 48-55. | 2.0 | 17 |
| 114 | Recovering the history of Bergen Belsen using an interactive 3D reconstruction in a mixed reality space the role of pre-knowledge on memory recollection. , 2015, , . | | 8 |
| 115 | 11. The Human as the Mind in the Machine: Addressing Big Data. , 2015, , 198-212. | | 1 |
| 116 | How? Why? What? Where? When? Who? Grounding Ontology in the Actions of a Situated Social Agent. Robotics, 2015, 4, 169-193. | 3.5 | 12 |
| 117 | Network dynamics with BrainX3: a large-scale simulation of the human brain network with real-time interaction. Frontiers in Neuroinformatics, 2015, 9, 02. | 2.5 | 48 |
| 118 | Motor Cost Influences Perceptual Decisions. PLoS ONE, 2015, 10, e0144841. | 2.5 | 38 |
| 119 | Skill refinement through cerebellar learning and human haptic feedback: An iCub learning to paint experiment. , 2015, , . | | 2 |
| 120 | Towards the synthetic self: making others perceive me as an other. Paladyn, 2015, 6, . | 2.7 | 13 |
| 121 | The visual amplification of goal-oriented movements counteracts acquired non-use in hemiparetic stroke patients. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 50. | 4.6 | 47 |
| 122 | Accelerating motor adaptation by virtual reality based modulation of error memories. , 2015, , . | | 11 |
| 123 | About the goal of a goalsâ€™ goal theory. Cognitive Neuroscience, 2015, 6, 218-219. | 1.4 | 6 |
| 124 | An embodied biologically constrained model of foraging: from classical and operant conditioning to adaptive real-world behavior in DAC-X. Neural Networks, 2015, 72, 88-108. | 5.9 | 31 |
| 125 | Symbiotic Adaptive Interfaces: A Case Study Using BrainX3. Lecture Notes in Computer Science, 2015, , 33-44. | 1.3 | 1 |
| 126 | Comparing Input Sensors in an Immersive Mixed-Reality Environment for Human-Computer Symbiosis. Lecture Notes in Computer Science, 2015, , 111-125. | 1.3 | 2 |

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| 127 | iTBS-Induced LTP-Like Plasticity Parallels Oscillatory Activity Changes in the Primary Sensory and Motor Areas of Macaque Monkeys. PLoS ONE, 2014, 9, e112504. | 2.5 | 18 |
| 128 | A Cerebellar Neuroprosthetic System: Computational Architecture and in vivo Test. Frontiers in Bioengineering and Biotechnology, 2014, 2, 14. | 4.1 | 10 |
| 129 | Fast mental states decoding in mixed reality. Frontiers in Behavioral Neuroscience, 2014, 8, 415. | 2.0 | 8 |
| 130 | Inference of human affective states from psychophysiological measurements extracted under ecologically valid conditions. Frontiers in Neuroscience, 2014, 8, 286. | 2.8 | 28 |
| 131 | XIM-engine. , 2014, , . | | 11 |
| 132 | EFAA. , 2014, , . | | 3 |
| 133 | A Signature of Attractor Dynamics in the CA3 Region of the Hippocampus. PLoS Computational Biology, 2014, 10, e1003641. | 3.2 | 49 |
| 134 | Subliminal Response Priming in Mixed Reality: The Ecological Validity of a Classic Paradigm of Perception. Presence: Teleoperators and Virtual Environments, 2014, 23, 1-17. | 0.6 | 9 |
| 135 | A biomimetic approach to machine olfaction, featuring a very large-scale chemical sensor array and embedded neuro-bio-inspired computation. Microsystem Technologies, 2014, 20, 729-742. | 2.0 | 36 |
| 136 | The why, what, where, when and how of goal-directed choice: neuronal and computational principles. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130483. | 4.0 | 105 |
| 137 | The principles of goal-directed decision-making: from neural mechanisms to computation and robotics. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130470. | 4.0 | 24 |
| 138 | Effects of Gaze Synchronization in Human-Robot Interaction. Lecture Notes in Computer Science, 2014, , 370-373. | 1.3 | 3 |
| 139 | Manipulating complex network structures in virtual reality and 3D printing of the results. , 2014, , . | | 0 |
| 140 | BrainX 3. , 2014, , . | | 14 |
| 141 | Understanding large network datasets through embodied interaction in virtual reality. , 2014, , . | | 19 |
| 142 | Social Integration of Stroke Patients through the Multiplayer Rehabilitation Gaming System. Lecture Notes in Computer Science, 2014, , 100-114. | 1.3 | 24 |
| 143 | The Role of a Cerebellum-Driven Perceptual Prediction within a Robotic Postural Task. Lecture Notes in Computer Science, 2014, , 76-87. | 1.3 | 3 |
| 144 | Acquisition of Synergistic Motor Responses through Cerebellar Learning in a Robotic Postural Task. Lecture Notes in Computer Science, 2014, , 202-212. | 1.3 | 2 |

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|---|---|---|---|
| 145 | Optimization of the Anticipatory Reflexes of a Computational Model of the Cerebellum. Lecture Notes in Computer Science, 2014, , 11-22. | 1.3 | 8 |
| 146 | Hippocampal Based Model Reveals the Distinct Roles of Dentate Gyrus and CA3 during Robotic Spatial Navigation. Lecture Notes in Computer Science, 2014, , 273-283. | 1.3 | 4 |
| 147 | Visual anticipation biases conscious decision making but not bottom-up visual processing. Frontiers in Psychology, 2014, 5, 1443. | 2.1 | 8 |
| 148 | The Influence of Behavioral Complexity on Robot Perception. Lecture Notes in Computer Science, 2014, , 332-343. | 1.3 | 2 |
| 149 | Optimising Robot Personalities for Symbiotic Interaction. Lecture Notes in Computer Science, 2014, , 392-395. | 1.3 | 5 |
| 150 | Empathy in Humanoid Robots. Lecture Notes in Computer Science, 2014, , 423-426. | 1.3 | 2 |
| 151 | Gesture Recognition Using Temporal Population Coding and a Conceptual Space. Lecture Notes in Computer Science, 2014, , 430-432. | 1.3 | 0 |
| 152 | Prefrontal cortical modulation of information flow in a large-scale model of the cortico-thalamic circuit. BMC Neuroscience, 2013, 14, . | 1.9 | 0 |
| 153 | Biomechanical costs of reaching movements bias perceptual decisions. BMC Neuroscience, 2013, 14, . | 1.9 | 5 |
| 154 | The dynamic connectome: towards large-scale 3D reconstruction of brain activity in real-time. BMC Neuroscience, 2013, 14, . | 1.9 | 2 |
| 155 | Acquisition and execution of motor sequences by a computational model of the cerebellum. BMC Neuroscience, 2013, 14, . | 1.9 | 1 |
| 156 | A functional magnetic resonance imaging study of visuomotor processing in a virtual realityâ€based paradigm: Rehabilitation Gaming System. European Journal of Neuroscience, 2013, 37, 1441-1447. | 2.6 | 61 |
| 157 | Integrated information for large complex networks. , 2013, , . | | 14 |
| 158 | The state of the art in biomimetics. Bioinspiration and Biomimetics, 2013, 8, 013001. | 2.9 | 187 |
| 159 | Cooperative human robot interaction systems: IV. Communication of shared plans with Naïve humans using gaze and speech. , 2013, , . | | 20 |
| 160 | Speed generalization capabilities of a cerebellar model on a rapid navigation task. , 2013, , . | | 9 |
| 161 | Using a Hybrid Brain Computer Interface and Virtual Reality System to Monitor and Promote Cortical Reorganization through Motor Activity and Motor Imagery Training. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 174-181. | 4.9 | 90 |
| 162 | Nucleo-olivary inhibition balances the interaction between the reactive and adaptive layers in motor control. Neural Networks, 2013, 47, 64-71. | 5.9 | 50 |

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|---|---|---|---|
| 163 | Neural Variability in Premotor Cortex Is Modulated by Trial History and Predicts Behavioral Performance. Neuron, 2013, 78, 249-255. | 8.1 | 80 |
| 164 | The Convergence of Machine and Biological Intelligence. IEEE Intelligent Systems, 2013, 28, 28-43. | 4.0 | 26 |
| 165 | A sensorimotor account of visual and tactile integration for object categorization and grasping. , 2013, , . | | 3 |
| 166 | Advanced interfaces to stem the data deluge in mixed reality. , 2013, , . | | 13 |
| 167 | At Home Motor Rehabilitation in the Chronic Phase of Stroke Using the Rehabilitation Gaming System. Biosystems and Biorobotics, 2013, , 931-935. | 0.3 | 8 |
| 168 | The social perceptual salience effect.. Journal of Experimental Psychology: Human Perception and Performance, 2013, 39, 62-74. | 0.9 | 15 |
| 169 | Living Machines 2012: The First International Conference on Biomimetic and Biohybrid Systems. Bioinspiration and Biomimetics, 2013, 8, 030201. | 2.9 | 0 |
| 170 | Learning of Motor Sequences Based on a Computational Model of the Cerebellum. Lecture Notes in Computer Science, 2013, , 356-358. | 1.3 | 3 |
| 171 | A sensing architecture for empathetic data systems. , 2013, , . | | 10 |
| 172 | Non-anthropomorphic Expression of Affective States through Parametrized Abstract Motifs. , 2013, , . | | 7 |
| 173 | Modulating Behaviors Using Allostatic Control. Lecture Notes in Computer Science, 2013, , 287-298. | 1.3 | 15 |
| 174 | The effect of guided and free navigation on spatial memory in mixed reality. , 2013, , . | | 2 |
| 175 | Virtual Reality Based Tool for Motor Function Assessment in Stroke Survivors. Biosystems and Biorobotics, 2013, , 1037-1041. | 0.3 | 2 |
| 176 | Towards a Roadmap for Living Machines. Lecture Notes in Computer Science, 2013, , 396-398. | 1.3 | 1 |
| 177 | The Hierarchical Accumulation of Knowledge in the Distributed Adaptive Control Architecture. , 2013, , 213-234. | | 3 |
| 178 | The Dynamic Connectome: A Tool For Large-Scale 3D Reconstruction Of Brain Activity In Real-Time. , 2013, , . | | 14 |
| 179 | Acquisition of Anticipatory Postural Adjustment through Cerebellar Learning in a Mobile Robot. Lecture Notes in Computer Science, 2013, , 399-401. | 1.3 | 1 |
| 180 | The Synthetic Moth. Frontiers in Neuroengineering Series, 2013, , 117-152. | 0.4 | 1 |

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| 181 | The Combined Impact of Virtual Reality Neurorehabilitation and Its Interfaces on Upper Extremity Functional Recovery in Patients With Chronic Stroke. Stroke, 2012, 43, 2720-2728. | 2.0 | 149 |
| 182 | Including Social Interaction in Stroke VR-Based Motor Rehabilitation Enhances Performance: A Pilot Study. Presence: Teleoperators and Virtual Environments, 2012, 21, 490-501. | 0.6 | 29 |
| 183 | Embodied interaction with complex neuronal data in mixed-reality. , 2012, , . | | 12 |
| 184 | A high-throughput behavioral paradigm for Drosophila olfaction - The Flywalk. Scientific Reports, 2012, 2, 361. | 3.3 | 78 |
| 185 | A VLSI Field-Programmable Mixed-Signal Array to Perform Neural Signal Processing and Neural Modeling in a Prosthetic System. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 455-467. | 4.9 | 18 |
| 186 | Distributed Adaptive Control: A theory of the Mind, Brain, Body Nexus. Biologically Inspired Cognitive Architectures, 2012, 1, 55-72. | 0.9 | 88 |
| 187 | A Biomimetic Approach to an Autonomous Unmanned Air Vehicle. Lecture Notes in Computer Science, 2012, , 333-334. | 1.3 | 0 |
| 188 | Insect-Like Odor Classification and Localization on an Autonomous Robot. Lecture Notes in Computer Science, 2012, , 371-372. | 1.3 | 2 |
| 189 | A wavelet-based neural model to optimize and read out a temporal population code. Frontiers in Computational Neuroscience, 2012, 6, 21. | 2.1 | 3 |
| 190 | PASAR: An integrated model of prediction, anticipation, sensation, attention and response for artificial sensorimotor systems. Information Sciences, 2012, 186, 1-19. | 6.9 | 27 |
| 191 | A Digital Neuromorphic Implementation of Cerebellar Associative Learning. Lecture Notes in Computer Science, 2012, , 13-25. | 1.3 | 3 |
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