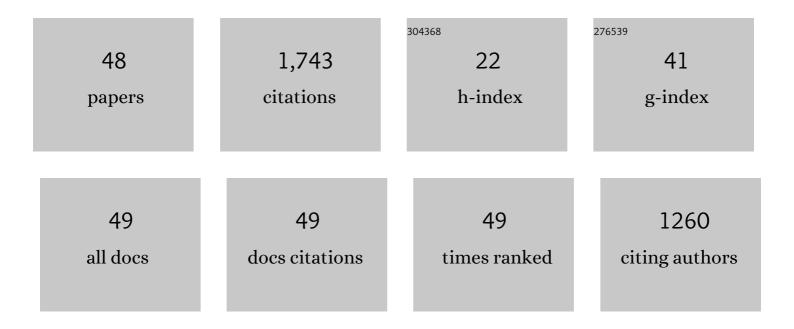
Sio-HoÃ⁻ Ieng

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2409096/publications.pdf Version: 2024-02-01



SID-HOÃ- IENC

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Event-Based Visual Flow. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 407-417. | 7.2 | 248 |
| 2 | Asynchronous frameless event-based optical flow. Neural Networks, 2012, 27, 32-37. | 3.3 | 160 |
| 3 | Multiplex Cell and Lineage Tracking with Combinatorial Labels. Neuron, 2014, 81, 505-520. | 3.8 | 142 |
| 4 | Asynchronous Event-Based Binocular Stereo Matching. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 347-353. | 7.2 | 126 |
| 5 | Asynchronous Event-Based Multikernel Algorithm for High-Speed Visual Features Tracking. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1710-1720. | 7.2 | 113 |
| 6 | Cortical astrocytes develop in a plastic manner at both clonal and cellular levels. Nature Communications, 2019, 10, 4884. | 5.8 | 87 |
| 7 | Asynchronous event-based corner detection and matching. Neural Networks, 2015, 66, 91-106. | 3.3 | 79 |
| 8 | Asynchronous eventâ€based high speed vision for microparticle tracking. Journal of Microscopy, 2012, 245, 236-244. | 0.8 | 76 |
| 9 | Plenoptic cameras in real-time robotics. International Journal of Robotics Research, 2013, 32, 206-217. | 5.8 | 55 |
| 10 | Visual Tracking Using Neuromorphic Asynchronous Event-Based Cameras. Neural Computation, 2015, 27, 925-953. | 1.3 | 50 |
| 11 | Event-based 3D reconstruction from neuromorphic retinas. Neural Networks, 2013, 45, 27-38. | 3.3 | 47 |
| 12 | Artificial retina: the multichannel processing of the mammalian retina achieved with a neuromorphic asynchronous light acquisition device. Journal of Neural Engineering, 2012, 9, 066004. | 1.8 | 46 |
| 13 | A spiking neural network model of 3D perception for event-based neuromorphic stereo vision systems. Scientific Reports, 2017, 7, 40703. | 1.6 | 45 |
| 14 | Toward an Autonomous Sailing Boat. IEEE Journal of Oceanic Engineering, 2015, 40, 397-407. | 2.1 | 44 |
| 15 | Asynchronous Event-Based Hebbian Epipolar Geometry. IEEE Transactions on Neural Networks, 2011, 22, 1723-1734. | 4.8 | 42 |
| 16 | An Asynchronous Neuromorphic Event-Driven Visual Part-Based Shape Tracking. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3045-3059. | 7.2 | 42 |
| 17 | Spatiotemporal features for asynchronous event-based data. Frontiers in Neuroscience, 2015, 9, 46. | 1.4 | 34 |
| 18 | Event-Driven Stereo Visual Tracking Algorithm to Solve Object Occlusion. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4223-4237. | 7.2 | 34 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Asynchronous visual event-based time-to-contact. Frontiers in Neuroscience, 2014, 8, 9. | 1.4 | 31 |
| 20 | A Spiking Neural Network Model of Depth from Defocus for Event-based Neuromorphic Vision. Scientific Reports, 2019, 9, 3744. | 1.6 | 27 |
| 21 | Asynchronous Neuromorphic Event-Driven Image Filtering. Proceedings of the IEEE, 2014, 102, 1485-1499. | 16.4 | 24 |
| 22 | Event-Based Gesture Recognition With Dynamic Background Suppression Using Smartphone Computational Capabilities. Frontiers in Neuroscience, 2020, 14, 275. | 1.4 | 24 |
| 23 | Neuromorphic Event-Based Generalized Time-Based Stereovision. Frontiers in Neuroscience, 2018, 12, 442. | 1.4 | 19 |
| 24 | Real-time high speed motion prediction using fast aperture-robust event-driven visual flow. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 44, 1-1. | 9.7 | 19 |
| 25 | Event-Based Face Detection and Tracking Using the Dynamics of Eye Blinks. Frontiers in Neuroscience, 2020, 14, 587. | 1.4 | 18 |
| 26 | Neuromorphic Event-Based 3D Pose Estimation. Frontiers in Neuroscience, 2015, 9, 522. | 1.4 | 17 |
| 27 | Asynchronous Event-Based Fourier Analysis. IEEE Transactions on Image Processing, 2017, 26, 2192-2202. | 6.0 | 12 |
| 28 | Event-Based Line Fitting and Segment Detection Using a Neuromorphic Visual Sensor. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1218-1230. | 7.2 | 12 |
| 29 | Event-Based Color Segmentation With a High Dynamic Range Sensor. Frontiers in Neuroscience, 2018, 12, 135. | 1.4 | 9 |
| 30 | A Fisher-Rao Metric for Paracatadioptric Images of Lines. International Journal of Computer Vision, 2012, 99, 147-165. | 10.9 | 8 |
| 31 | Event-Based Tone Mapping for Asynchronous Time-Based Image Sensor. Frontiers in Neuroscience, 2016, 10, 391. | 1.4 | 7 |
| 32 | Effects of Cooling on the SNR and Contrast Detection of a Low-Light Event-Based Camera. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1467-1474. | 2.7 | 7 |
| 33 | Event-based features for robotic vision. , 2013, , . | | 5 |
| 34 | An Event-Based Solution to the Perspective-n-Point Problem. Frontiers in Neuroscience, 2016, 10, 208. | 1.4 | 5 |
| 35 | Event-Based 3D Motion Flow Estimation Using 4D Spatio Temporal Subspaces Properties. Frontiers in Neuroscience, 2016, 10, 596. | 1.4 | 5 |
| 36 | Asynchronous Event-Based Motion Processing: From Visual Events to Probabilistic Sensory Representation. Neural Computation, 2019, 31, 1114-1138. | 1.3 | 5 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | A homeostatic gain control mechanism to improve event-driven object recognition. , 2021, , . | | 4 |
| 38 | Shapes to synchronize camera networks. , 2008, , . | | 2 |
| 39 | Complexity Analysis of Iterative Basis Transformations Applied to Event-Based Signals. Frontiers in Neuroscience, 2018, 12, 373. | 1.4 | 2 |
| 40 | A Theory for Sparse Event-Based Closed Loop Control. Frontiers in Neuroscience, 2019, 13, 827. | 1.4 | 2 |
| 41 | Sepia, Tarsier, and Chameleon: A Modular C++ Framework for Event-Based Computer Vision. Frontiers in Neuroscience, 2019, 13, 1338. | 1.4 | 2 |
| 42 | Using structures to synchronize cameras of robots swarms. , 2008, , . | | 1 |
| 43 | Auto-organized visual perception using distributed camera network. Robotics and Autonomous Systems, 2009, 57, 1075-1082. | 3.0 | 1 |
| 44 | Optical flow estimation using the Fisher–Rao metric. Neuromorphic Computing and Engineering, 2021, 1, 024004. | 2.8 | 1 |
| 45 | Geometric construction of the caustic curves for catadioptric sensors. , 0, , . | | 0 |
| 46 | Designing non constant resolution vision sensors via photosites rearrangement. , 2008, , . | | 0 |
| 47 | Live demonstration: Neuromorphic event-based multi-kernel algorithm for high speed visual features tracking. , 2014, , . | | 0 |
| 48 | OBSTACLE DETECTION USING INTEGRATION OF OMNI-DIRECTIONAL CAMERA AND INERTIAL SENSOR. , 2011, , . | | 0 |