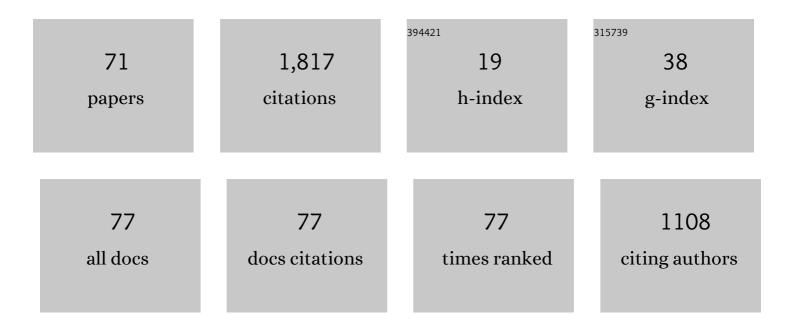
Franck Ruffier

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6153978/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Floor and ceiling mirror configurations to study altitude control in honeybees. Biology Letters, 2022, 18, 20210534. | 2.3 | 3 |
| 2 | Helicopter Pilots Synchronize Their Altitude with Ship Heave to Minimize Energy When Landing on a Ship's Deck. International Journal of Aerospace Psychology, 2021, 31, 135-148. | 0.9 | 2 |
| 3 | Signal-Based Self-Organization of a Chain of UAVs for Subterranean Exploration. Frontiers in Robotics and AI, 2021, 8, 614206. | 3.2 | 9 |
| 4 | Estimation of the distance from a surface based on local optic flow divergence. , 2021, , . | | 4 |
| 5 | Ecological design of augmentation improves helicopter ship landing maneuvers: An approach in augmented virtuality. PLoS ONE, 2021, 16, e0255779. | 2.5 | 3 |
| 6 | Oscillations make a self-scaled model for honeybees' visual odometer reliable regardless of flight trajectory. Journal of the Royal Society Interface, 2021, 18, 20210567. | 3.4 | 7 |
| 7 | Sparse deep predictive coding captures contour integration capabilities of the early visual system. PLoS Computational Biology, 2021, 17, e1008629. | 3.2 | 16 |
| 8 | A biphasic navigational strategy in loggerhead sea turtles. Scientific Reports, 2020, 10, 18130. | 3.3 | 5 |
| 9 | Effect of Top-Down Connections in Hierarchical Sparse Coding. Neural Computation, 2020, 32, 2279-2309. | 2.2 | 10 |
| 10 | Optic flow cues help explain altitude control over sea in freely flying gulls. Journal of the Royal Society Interface, 2019, 16, 20190486. | 3.4 | 16 |
| 11 | A bio-inspired sighted robot chases like a hoverfly. Bioinspiration and Biomimetics, 2019, 14, 036002. | 2.9 | 10 |
| 12 | Informational Framework for Minimalistic Visual Odometry on Outdoor Robot. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2988-2995. | 4.7 | 13 |
| 13 | Robotic-flapper maneuvers and fruitfly turns. Science, 2018, 361, 1073-1074. | 12.6 | 2 |
| 14 | Altitude control in honeybees: joint vision-based learning and guidance. Scientific Reports, 2017, 7, 9231. | 3.3 | 26 |
| 15 | Optic flow-based collision-free strategies: From insects to robots. Arthropod Structure and Development, 2017, 46, 703-717. | 1.4 | 112 |
| 16 | A quasi-panoramic bio-inspired eye for flying parallel to walls. , 2017, , . | | 3 |
| 17 | Time-of-Travel Methods for Measuring Optical Flow on Board a Micro Flying Robot. Sensors, 2017, 17, 571. | 3.8 | 15 |
| 18 | A Shape-Adjusted Tridimensional Reconstruction of Cultural Heritage Artifacts Using a Miniature Quadrotor. Remote Sensing, 2016, 8, 858. | 4.0 | 9 |

FRANCK RUFFIER

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Optic-flow based car-like robot operating in a 5-decade light level range. , 2016, , . | | 1 |
| 20 | Minimalistic optic flow sensors applied to indoor and outdoor visual guidance and odometry on a car-like robot. Bioinspiration and Biomimetics, 2016, 11, 066007. | 2.9 | 16 |
| 21 | Towards an automatic parking system using bio-inspired 1-D optical flow sensors. , 2015, , . | | 1 |
| 22 | X4-MaG: A Low-Cost Open-Source Micro-Quadrotor and its Linux-Based Controller. International Journal of Micro Air Vehicles, 2015, 7, 89-109. | 1.3 | 21 |
| 23 | Suboptimal lunar landing GNC using nongimbaled optic-flow sensors. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2525-2545. | 4.7 | 3 |
| 24 | Flying over uneven moving terrain based on optic-flow cues without any need for reference frames or accelerometers. Bioinspiration and Biomimetics, 2015, 10, 026003. | 2.9 | 41 |
| 25 | Biomimetic Autopilot Based on Minimalistic Motion Vision for Navigating along Corridors Comprising U-shaped and S-shaped Turns. Journal of Bionic Engineering, 2015, 12, 47-60. | 5.0 | 12 |
| 26 | A bio-inspired analog silicon retina with Michaelis-Menten auto-adaptive pixels sensitive to small and large changes in light. Optics Express, 2015, 23, 5614. | 3.4 | 21 |
| 27 | Optic Flow Regulation in Unsteady Environments: A Tethered MAV Achieves Terrain Following and Targeted Landing Over a Moving Platform. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 79, 275-293. | 3.4 | 29 |
| 28 | A biomimetic vision-based hovercraft accounts for bees' complex behaviour in various corridors. Bioinspiration and Biomimetics, 2014, 9, 036003. | 2.9 | 28 |
| 29 | INSECT INSPIRED VISUAL MOTION SENSING AND FLYING ROBOTS. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 565-611. | 0.1 | 1 |
| 30 | Hardware Architecture and Cutting-Edge Assembly Process of a Tiny Curved Compound Eye. Sensors, 2014, 14, 21702-21721. | 3.8 | 24 |
| 31 | Optic flow-based nonlinear control and sub-optimal guidance for lunar landing. , 2014, , . | | 1 |
| 32 | Event-based speed control on a sensor-less miniature thruster. , 2014, , . | | 0 |
| 33 | Backup state observer based on Optic Flow applied to lunar landing. , 2014, , . | | 2 |
| 34 | Two-Directional 1-g Visual Motion Sensor Inspired by the Fly's Eye. IEEE Sensors Journal, 2013, 13, 1025-1035. | 4.7 | 19 |
| 35 | Low-speed optic-flow sensor onboard an unmanned helicopter flying outside over fields. , 2013, , . | | 16 |
| 36 | Miniature curved artificial compound eyes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9267-9272. | 7.1 | 289 |

FRANCK RUFFIER

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Toward an Autonomous Lunar Landing Based on Low-Speed Optic Flow Sensors. , 2013, , 681-699. | | 3 |
| 38 | Bio-inspired Landing Approaches and Their Potential Use on Extraterrestrial Bodies. , 2013, , 221-246. | | 1 |
| 39 | Interpolation based "time of travel" scheme in a Visual Motion Sensor using a small 2D retina. , 2012, , . | | 4 |
| 40 | Controlling docking, altitude and speed in a circular high-roofed tunnel thanks to the optic flow. , 2012, , . | | 5 |
| 41 | A fully-autonomous hovercraft inspired by bees: Wall following and speed control in straight and tapered corridors. , 2012, , . | | 11 |
| 42 | Visual motion sensing onboard a 50-g helicopter flying freely under complex VICON-lighting conditions. , 2012, , . | | 7 |
| 43 | Special issue featuring selected papers from the International Workshop on Bio-Inspired Robots (Nantes, France, 6–8 April 2011). Bioinspiration and Biomimetics, 2012, 7, 020201. | 2.9 | 1 |
| 44 | A novel 1-gram insect based device measuring visual motion along 5 optical directions. , 2011, , . | | 14 |
| 45 | A mouse sensor and a 2-pixel motion sensor exposed to continuous illuminance changes. , 2011, , . | | 7 |
| 46 | A tiny directional sound sensor inspired by crickets designed for micro-air vehicles. , 2011, , . | | 5 |
| 47 | Honeybees' Speed Depends on Dorsal as Well as Lateral, Ventral and Frontal Optic Flows. PLoS ONE, 2011, 6, e19486. | 2.5 | 62 |
| 48 | CURVACE – CURVed Artificial Compound Eyes. Procedia Computer Science, 2011, 7, 308-309. | 2.0 | 2 |
| 49 | Outdoor field performances of insectâ€based visual motion sensors. Journal of Field Robotics, 2011, 28, 529-541. | 6.0 | 34 |
| 50 | Honeybees change their height to restore their optic flow. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2010, 196, 307-313. | 1.6 | 48 |
| 51 | Modelling honeybee visual guidance in a 3-D environment. Journal of Physiology (Paris), 2010, 104, 27-39. | 2.1 | 34 |
| 52 | Biomimetic optic flow sensing applied to a lunar landing scenario. , 2010, , . | | 28 |
| 53 | Characteristics of Three Miniature Bio-inspired Optic Flow Sensors in Natural Environments. , 2010, , . | | 12 |
| 54 | Insect Inspired Autopilots. Journal of Aero Aqua Bio-mechanisms, 2010, 1, 2-10. | 1.0 | 3 |

FRANCK RUFFIER

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Field Programmable Gate Array (FPGA) for Bio-Inspired Visuo-Motor Control Systems Applied to Micro-Air Vehicles. , 2009, , . | | 0 |
| 56 | Guest editorial: Visual guidance systems forÂsmallÂUnmannedÂAerialÂVehicles. Autonomous Robots, 2009, 27, 145-146. | 4.8 | 0 |
| 57 | Optic Flow Based Autopilots: Speed Control and Obstacle Avoidance. , 2009, , 29-50. | | 3 |
| 58 | A bee in the corridor: centering and wall-following. Die Naturwissenschaften, 2008, 95, 1181-1187. | 1.6 | 68 |
| 59 | A vision-based autopilot for a miniature air vehicle: joint speed control and lateral obstacle avoidance. Autonomous Robots, 2008, 25, 103-122. | 4.8 | 80 |
| 60 | A 3D insect-inspired visual autopilot for corridor-following. , 2008, , . | | 4 |
| 61 | Neuromimetic Robots Inspired by Insect Vision. Advances in Science and Technology, 2008, 58, 127-136. | 0.2 | 8 |
| 62 | Aerial robot piloted in steep relief by optic flow sensors. , 2008, , . | | 26 |
| 63 | Combining sound and optic fow cues to reach a sound source despite lateral obstacles. , 2008, , . | | 4 |
| 64 | A miniature bio-inspired optic flow sensor based on low temperature co-fired ceramics (LTCC) technology. Sensors and Actuators A: Physical, 2007, 133, 88-95. | 4.1 | 28 |
| 65 | A Bio-Inspired Flying Robot Sheds Light on Insect Piloting Abilities. Current Biology, 2007, 17, 329-335. | 3.9 | 157 |
| 66 | Toward Optic Flow Regulation for Wall-Following and Centring Behaviours. International Journal of Advanced Robotic Systems, 2006, 3, 23. | 2.1 | 39 |
| 67 | Optic flow regulation: the key to aircraft automatic guidance. Robotics and Autonomous Systems, 2005, 50, 177-194. | 5.1 | 177 |
| 68 | Visual control of two aerial micro-robots by insect-based autopilots. Advanced Robotics, 2004, 18, 771-786. | 1.8 | 14 |
| 69 | Visually guided micro-aerial vehicle: automatic take off, terrain following, landing and wind reaction. , 2004, , . | | 85 |
| 70 | OCTAVE: a bioinspired visuo-motor control system for the guidance of micro-air-vehicles. , 2003, , . | | 31 |
| 71 | Optic Flow Based Visual Guidance: From Flying Insects to Miniature Aerial Vehicles. , 0, , . | | 15 |