

# Yau-Zen Chang

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

301  
citations

1307594

7  
h-index

940533

16  
g-index

46  
all docs

46  
docs citations

46  
times ranked

261  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Practical and flexible path planning for car-like mobile robot using maximal-curvature cubic spiral. Robotics and Autonomous Systems, 2005, 52, 312-335.   | 5.1 | 56        |
| 2  | On the adaptive control of flexible joint robots. Automatica, 1992, 28, 969-974.   | 5.0 | 39        |
| 3  | The electrochemical behavior of austenitic stainless steel with different degrees of sensitization in the transpassive potential region in 1 M H <sub>2</sub> SO <sub>4</sub> containing chloride. Corrosion Science, 2004, 46, 1501-1513. | 6.6 | 37        |
| 4  | Application of the Genetic Algorithm to the Multi-Objective Optimization of Air Bearings. Tribology Letters, 2004, 17, 119-128.  | 2.6 | 30        |
| 5  | The surface alloying behavior of martensitic stainless steel cut with wire electrical discharge machine. Applied Surface Science, 2006, 252, 2915-2926.  | 6.1 | 18        |
| 6  | Robust fuzzy stabilization of dithered chaotic systems using island-based random optimization algorithm. Information Sciences, 2008, 178, 1171-1188.   | 6.9 | 15        |
| 7  | A Hybrid Search Algorithm for Porous Air Bearings Optimization. Tribology Transactions, 2002, 45, 471-477.   | 2.0 | 13        |
| 8  | A comparative study of smooth path planning for a mobile robot by evolutionary multi-objective optimization. , 2007, , .   |     | 11        |
| 9  | Derivation of optimal processing parameters of polypropylene foam thermoforming by an artificial neural network. Polymer Engineering and Science, 2005, 45, 375-384.   | 3.1 | 7         |
| 10 | Biomechanical Evaluation of an Orthodontic Miniimplant Used With Revolving (Translation and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 Dentistry, 2013, 22, 77-82.   | 1.3 | 7         |
| 11 | Stereo matching for infrared images using guided filtering weighted by exponential moving average. IET Image Processing, 2020, 14, 830-837.  | 2.5 | 7         |
| 12 | Robust fuzzy control and evolutionary fuzzy identification of singularly perturbed nonlinear systems with parameter uncertainty. Electrical Engineering, 2008, 90, 379-393.  | 2.0 | 6         |
| 13 | Application of non-destructive impedance-based monitoring technique for cyclic fatigue evaluation of endodontic nickel-titanium rotary instruments. Medical Engineering and Physics, 2011, 33, 604-609.                                    | 1.7 | 6         |
| 14 | Parallel genetic algorithms for a neurocontrol problem. , 0, , .   |     | 5         |
| 15 | Human face detection with neural networks and the DIRECT algorithm. Artificial Life and Robotics, 2008, 12, 112-115.   | 1.2 | 5         |
| 16 | Efficient Stereo Matching Based on Pervasive Guided Image Filtering. Mathematical Problems in Engineering, 2019, 2019, 1-11.   | 1.1 | 5         |
| 17 | A Simple Fuzzy Motion Planning Strategy for Autonomous Mobile Robots. , 2007, , .  |     | 4         |
| 18 | Hierarchical Guided-Image-Filtering for Efficient Stereo Matching. Applied Sciences (Switzerland), 2019, 9, 3122.  | 2.5 | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Collision Detection of Deformable Polyhedral Objects via Inner-outer Ellipsoids. , 2006, , .  |     | 3         |
| 20 | Supervised Adaptive PID Control of Unknown Nonlinear Systems Using Fuzzily Blended Time-Varying Canonical Model. IEEE International Conference on Fuzzy Systems, 2007, , .          | 0.0 | 2         |
| 21 | 3D registration of human face using evolutionary computation and Kriging interpolation. Artificial Life and Robotics, 2008, 13, 242-245.  | 1.2 | 2         |
| 22 | Optimizing the Swiss-Roll Recuperator of an Innovative Micro Gas Turbine by a Surrogate Neural Network and the Multi-Objective DIRECT Algorithm. , 2008, , .                        |     | 2         |
| 23 | Uniformly spaced 3D modeling of human face from two images using parallel particle swarm optimization. Proceedings of SPIE, 2011, , .   | 0.8 | 2         |
| 24 | Optimal fuzzy tracking control of uncertain nonlinear systems based on genetic algorithms and fuzzy Lyapunov function. Journal of Intelligent and Fuzzy Systems, 2013, 24, 121-132. | 1.4 | 2         |
| 25 | Development of a visual compressive tracking system enhanced by adaptive boosting. , 2015, , .  |     | 2         |
| 26 | Supervised Adaptive Control of Unknown Nonlinear Systems Using Fuzzily Blended Time-Varying Canonical Model. , 2007, , 464-472.   |     | 2         |
| 27 | Integration of a stereo vision system and a laser range finder for 3-D construction. Artificial Life and Robotics, 2009, 14, 228-232.   | 1.2 | 1         |
| 28 | Three dimensional map construction using a scanning laser range finder. Proceedings of SPIE, 2009, , .  | 0.8 | 1         |
| 29 | Calibration of a dual-PTZ camera system for stereo vision. Proceedings of SPIE, 2010, , .   | 0.8 | 1         |
| 30 | Investigation of hybrid optimization methods to evolve effective gaits of a hexapedal robot. , 2010, , .  |     | 1         |
| 31 | Switched Two-LevelHâžand Robust Fuzzy Learning Control of an Overhead Crane. Mathematical Problems in Engineering, 2013, 2013, 1-12.  | 1.1 | 1         |
| 32 | Construction of Fuzzy Map for Autonomous Mobile Robots Based on Fuzzy Confidence Model. Mathematical Problems in Engineering, 2014, 2014, 1-8.                                      | 1.1 | 1         |
| 33 | Two-level robust adaptive fuzzy control of aircraft. , 2014, , .  |     | 1         |
| 34 | Adaptive MIMO Supervisory Control Design Using Modeling Error. Mathematical Problems in Engineering, 2015, 2015, 1-8.   | 1.1 | 1         |
| 35 | Stereo Matching Based on Guided Image Filtering with Permeability Filter. , 2019, , .   |     | 1         |
| 36 | Accurate Calibration of a Robotic Positioning System Using the Evolutionary Search. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .                   | 0.0 | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Supervised adaptive control for temperature regulation. , 2009, , .   |     | 0         |
| 38 | Adaptive inverse control of a temperature regulation system with feedforward. , 2012, , .   |     | 0         |
| 39 | Application of real-time single camera SLAM technology for image-guided targeting in neurosurgery. , 2012, , .  |     | 0         |
| 40 | Adaptive Neuron-Like Control of Time-Delay Systems Enhanced with Feedforward and Supervisory Strategies. Mathematical Problems in Engineering, 2013, 2013, 1-5. | 1.1 | 0         |
| 41 | Biomechanical evaluation of an orthodontic mini-implant with plastic removal cap: An in-vitro experimental testing. , 2013, 2013, 3183-5.                       |     | 0         |
| 42 | Registration for frameless brain surgery based on stereo imaging. , 2013, 2013, 3998-4001.  |     | 0         |
| 43 | Efficient Stereo Matching with Decoupled Dissimilarity Measure Using Successive Weighted Summation. Mathematical Problems in Engineering, 2014, 2014, 1-9.      | 1.1 | 0         |
| 44 | Experimental Investigation of a Prediction Algorithm for an Indoor SLAM Platform. Lecture Notes in Computer Science, 2010, , 154-165.                           | 1.3 | 0         |
| 45 | Nonlinear Model Predictive Control of a Rotary Crane System using On-Line Optimization. , 2011, , .   |     | 0         |
| 46 | Accurate stereo matching based on weighted nonlocal aggregation for enhanced disparity refinement. Journal of Electronic Imaging, 2018, 27, 1.                  | 0.9 | 0         |