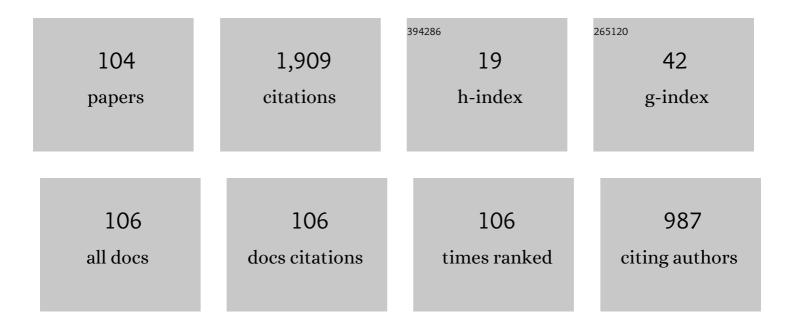
Kazuo Tanaka

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3750948/publications.pdf Version: 2024-02-01



ΚΑΖΙΙΟ ΤΑΝΙΑΚΑ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Local body shape control of an articulated mobile robot and an application for recovery from a stuck state. Advanced Robotics, 2022, 36, 488-500. | 1.1 | 1 |
| 2 | Path-Following-Based Design for Guaranteed Cost Control of Polynomial Fuzzy Systems. International Journal of Fuzzy Systems, 2021, 23, 1-12. | 2.3 | 11 |
| 3 | Relaxed Stabilization and Disturbance Attenuation Control Synthesis Conditions for Polynomial Fuzzy Systems. IEEE Transactions on Cybernetics, 2021, 51, 2093-2106. | 6.2 | 8 |
| 4 | A Novel Path-Following-Method-Based Polynomial Fuzzy Control Design. IEEE Transactions on Cybernetics, 2021, 51, 2993-3003. | 6.2 | 8 |
| 5 | Control of a snake robot for passing through a self-closing door. Advanced Robotics, 2021, 35, 635-647. | 1.1 | 3 |
| 6 | Relaxed Sum-of-squares Approach to Stabilization of Polynomial Fuzzy Systems. International Journal of Control, Automation and Systems, 2021, 19, 2921-2930. | 1.6 | 4 |
| 7 | Serret-Frenet Frame-based Path Tracking Stabilization of a Powered Paraglider Type UAV with Input Constraints. , 2021, , . | | 1 |
| 8 | A polynomial-fuzzy-model-based synchronization methodology for the multi-scroll Chen chaotic secure communication system. Engineering Applications of Artificial Intelligence, 2020, 87, 103251. | 4.3 | 46 |
| 9 | Simultaneous Control of Two Points for Snake Robot and Its Application to Transportation. IEEE Robotics and Automation Letters, 2020, 5, 111-118. | 3.3 | 10 |
| 10 | A Rational Polynomial Tracking Control Approach to a Common System Representation for Unmanned Aerial Vehicles. IEEE/ASME Transactions on Mechatronics, 2020, 25, 919-930. | 3.7 | 11 |
| 11 | Three-dimensional steering for an articulated mobile robot with prismatic joints with consideration of hardware limitations. Advanced Robotics, 2020, 34, 767-779. | 1.1 | 4 |
| 12 | Control of an articulated wheeled mobile robot in pipes. Advanced Robotics, 2019, 33, 1072-1086. | 1.1 | 23 |
| 13 | Longitudinal Fuzzy Model Construction of a Flying-Wing Unmanned Aerial Vehicle and a Nonlinear Guaranteed Cost Control Approach to Altitude Stabilization. , 2019, , . | | 2 |
| 14 | 3-D Flight Path Tracking Control for Unmanned Aerial Vehicles Under Wind Environments. IEEE Transactions on Vehicular Technology, 2019, 68, 11621-11634. | 3.9 | 17 |
| 15 | Practical Model Construction and Stable Control of an Unmanned Aerial Vehicle With a Parafoil-Type Wing. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1291-1297. | 5.9 | 15 |
| 16 | Fuzzy Model-Based Nonlinear Control Using Sum of Squares. Journal of Japan Society for Fuzzy Theory and Intelligent Informatics, 2019, 31, 65-74. | 0.0 | 0 |
| 17 | Motion control of a snake robot moving between two non-parallel planes. Advanced Robotics, 2018, 32, 559-573. | 1.1 | 18 |
| 18 | Development and Control of Articulated Mobile Robot for Climbing Steep Stairs. IEEE/ASME Transactions on Mechatronics, 2018, 23, 531-541. | 3.7 | 55 |

ΚΑΖΟΟ ΤΑΝΑΚΑ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A Practical SSVEP-Based Algorithm for Perceptual Dominance Estimation in Binocular Rivalry. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 476-482. | 2.6 | 1 |
| 20 | A Waypoint Following Control Design for a Paraglider Model With Aerodynamic Uncertainty. IEEE/ASME Transactions on Mechatronics, 2018, 23, 518-523. | 3.7 | 9 |
| 21 | Stabilization and Robust Stabilization of Polynomial Fuzzy Systems: A Piecewise Polynomial Lyapunov Function Approach. International Journal of Fuzzy Systems, 2018, 20, 1423-1438. | 2.3 | 7 |
| 22 | Control Synthesis for Polynomial Fuzzy Systems Using Line-Integral Polynomial Fuzzy Lyapunov Function. , 2018, , . | | 2 |
| 23 | A New Nonconvex Design Algorithm for Optimal Polynomial Fuzzy Control. , 2018, , . | | 2 |
| 24 | An SOS-Based Control Lyapunov Function Design for Polynomial Fuzzy Control of Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 775-787. | 6.5 | 37 |
| 25 | Positivstellensatz relaxation for sum-of-squares stabilization conditions of polynomial fuzzy systems. , 2017, , . | | 0 |
| 26 | Shape Control of a Snake Robot With Joint Limit and Self-Collision Avoidance. IEEE Transactions on Control Systems Technology, 2017, 25, 1441-1448. | 3.2 | 21 |
| 27 | Stability analysis for polynomial fuzzy systems based on line-integral fuzzy Lyapunov function: A copositive relaxation approach. , 2017, , . | | 2 |
| 28 | Mixed Integer Programming-Based Semiautonomous Step Climbing of a Snake Robot Considering Sensing Strategy. IEEE Transactions on Control Systems Technology, 2016, 24, 252-264. | 3.2 | 17 |
| 29 | Smooth control of an articulated mobile robot with switching constraints. Advanced Robotics, 2016, 30, 29-40. | 1.1 | 16 |
| 30 | A New Sum-of-Squares Design Framework for Robust Control of Polynomial Fuzzy Systems With Uncertainties. IEEE Transactions on Fuzzy Systems, 2016, 24, 94-110. | 6.5 | 69 |
| 31 | Stair climbing of an articulated mobile robot via sequential shift. , 2015, , . | | 4 |
| 32 | A Simple Passive Attitude Stabilizer for Palm-size Aerial Vehicles. IEEE/ASME Transactions on Mechatronics, 2015, , 1-1. | 3.7 | 2 |
| 33 | Control of a Snake Robot for Ascending and Descending Steps. IEEE Transactions on Robotics, 2015, 31, 511-520. | 7.3 | 56 |
| 34 | Stability Analysis and Region-of-Attraction Estimation Using Piecewise Polynomial Lyapunov Functions: Polynomial Fuzzy Model Approach. IEEE Transactions on Fuzzy Systems, 2015, 23, 1314-1322. | 6.5 | 52 |
| 35 | Approximate Path-Tracking Control of Snake Robot Joints With Switching Constraints. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1633-1641. | 3.7 | 30 |
| 36 | Range-Sensor-Based Semiautonomous Whole-Body Collision Avoidance of a Snake Robot. IEEE Transactions on Control Systems Technology, 2015, 23, 1927-1934. | 3.2 | 46 |

ΚΑΖΟΟ ΤΑΝΑΚΑ

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Collision Avoidance Control for Multi-point Contact of a Redundant Serial-link Robot. Transactions of the Society of Instrument and Control Engineers, 2015, 51, 226-232. | 0.1 | Ο |
| 38 | A nonmonotonically decreasing relaxation approach of Lyapunov functions to guaranteed cost control for discrete fuzzy systems. IET Control Theory and Applications, 2014, 8, 1716-1722. | 1.2 | 24 |
| 39 | Stabilization analysis of single-input polynomial fuzzy systems using control Lyapunov functions. , 2014, , . | | 4 |
| 40 | Discrete polynomial fuzzy systems control. IET Control Theory and Applications, 2014, 8, 288-296. | 1.2 | 33 |
| 41 | Stability region analysis for polynomial fuzzy systems by polynomial Lyapunov functions. , 2014, , . | | 1 |
| 42 | Nonconvex stabilization criterion for polynomial fuzzy systems. , 2013, , . | | 4 |
| 43 | A practical design approach to automatic model construction and controller design for F16 aircraft. , 2013, , . | | 0 |
| 44 | Development of an autonomous flying robot and its verification via flight control experiment. , 2013, , | | 6 |
| 45 | Climbing and descending control of a snake robot on step environments based on kinematics. , 2013, , . | | 7 |
| 46 | Stability and stabilization conditions for Takagi-Sugeno fuzzy model via polyhedral Lyapunov functions. , 2013, , . | | 1 |
| 47 | Piecewise polynomial lyapunov functions based stability analysis for polynomial fuzzy systems. , 2013, , | | 0 |
| 48 | A Takagi-Sugeno fuzzy model approach to vision-based control of a micro helicopter. , 2012, , . | | 1 |
| 49 | A descriptor system approach to servo control for nonlinear systems. , 2012, , . | | 1 |
| 50 | Polynomial Fuzzy Observer Designs: A Sum-of-Squares Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1330-1342. | 5.5 | 93 |
| 51 | Wireless Vision-Based Stabilization of Indoor Microhelicopter. IEEE/ASME Transactions on Mechatronics, 2012, 17, 519-524. | 3.7 | 26 |
| 52 | Shared Nonlinear Control in Wireless-Based Remote Stabilization: A Theoretical Approach. IEEE/ASME Transactions on Mechatronics, 2012, 17, 443-453. | 3.7 | 10 |
| 53 | An SOS-based observer design for polynomial fuzzy systems. , 2011, , . | | 10 |
| 54 | A polynomial observer design for a wider class of polynomial fuzzy systems. , 2011, , . | | 11 |

4

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | An improved approach to fuzzy model construction and servo control with constraints based on error dynamics. , 2011, , . | | 1 |
| 56 | Stability analysis for the polynomial fuzzy systems by utilizing equality constraints of sum-of-squares program. , 2010, , . | | 4 |
| 57 | Fuzzy model-based servo control with constraints on both of inputs and states. , 2010, , . | | 1 |
| 58 | Stability analysis of nonlinear systems via multiple mixed max-min based Lyapunov functions. , 2010, , . | | 1 |
| 59 | Guaranteed cost control of T-S fuzzy systems using piecewise Lyapunov function based switching fuzzy controller. , 2009, , . | | 3 |
| 60 | Improved controller design for switching fuzzy model-based control. , 2009, , . | | 0 |
| 61 | Fuzzy model-based servo control for nonlinear systems with input constraint. , 2009, , . | | 15 |
| 62 | Relaxed stabilization conditions of T-S fuzzy systems using piecewise lyapunov function based switching fuzzy controller. , 2009, , . | | 3 |
| 63 | Stabilization of complex switched networks with two types of delays via impulsive control. , 2009, , . | | 1 |
| 64 | Development of a Flying Robot With a Pantograph-Based Variable Wing Mechanism. IEEE Transactions on Robotics, 2009, 25, 79-87. | 7.3 | 9 |
| 65 | H <inf>∞</inf> control of T-S fuzzy systems using piecewise Lyapunov function based switching fuzzy controller. , 2009, , . | | 0 |
| 66 | Improvement of simulation model and development of control mechanism of force direction for a flying robot with cyclogyro wing. , 2009, , . | | 1 |
| 67 | Polynomial fuzzy observer design: A sum of squares approach. , 2009, , . | | 15 |
| 68 | Switching fuzzy model construction based on optimal dividing planes. , 2009, , . | | 4 |
| 69 | Guaranteed Cost Control of Polynomial Fuzzy Systems via a Sum of Squares Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 561-567. | 5.5 | 153 |
| 70 | Sensor Reduction for Backing-Up Control of a Vehicle With Triple Trailers. IEEE Transactions on Industrial Electronics, 2009, 56, 497-509. | 5.2 | 20 |
| 71 | A Sum-of-Squares Approach to Modeling and Control of Nonlinear Dynamical Systems With Polynomial Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2009, 17, 911-922. | 6.5 | 399 |

72 Micro helicopter control: LMI approach vs SOS approach. , 2008, , .

ΚΑΖΟΟ ΤΑΝΑΚΑ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | The quadruped locomotion robot with the flexible materials. , 2008, , . | | Ο |
| 74 | Autonomous flight control of flapping-of-wings robot using GPS. , 2008, , . | | 1 |
| 75 | Passive dynamic walking with elastic energy. , 2008, , . | | 5 |
| 76 | Delay independent synchronization of complex network via hybrid control. , 2008, , . | | 6 |
| 77 | Development of a multiple parallel link rotor for flying robots. , 2008, , . | | Ο |
| 78 | Stochastic controlling tolerable fault of Network Control Systems. , 2008, , . | | 0 |
| 79 | Fuzzy model-based servo control for discrete-time nonlinear systems. , 2008, , . | | 6 |
| 80 | Development of a variable-wing mechanism based on flapping motion of birds. , 2008, , . | | 1 |
| 81 | Adaptive Spanning-tree on Changing Topologies: Towards Emergent Behaviors in Autonomous Multi-Agent Systems. Proceedings of the American Control Conference, 2007, , . | 0.0 | 2 |
| 82 | Development of a Flying Robot with Pantograph-based Variable Wing Mechanism. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , . | 0.0 | 5 |
| 83 | Application of FFP-Actuators to Legged Locomotion Robots. , 2007, , . | | 2 |
| 84 | A Descriptor System Approach to Fuzzy Control System Design via Fuzzy Lyapunov Functions. IEEE Transactions on Fuzzy Systems, 2007, 15, 333-341. | 6.5 | 303 |
| 85 | Passive Dynamic Walking with Elastic Energy. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 998-1000. | 0.1 | Ο |
| 86 | Fast Calculating Method for Eliminating the Impulsive Noise. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2004, 70, 62-68. | 0.2 | 2 |
| 87 | Electroencephalogram-based Control of a Mobile Robot. IEEJ Transactions on Electronics, Information and Systems, 2004, 124, 890-896. | 0.1 | 3 |
| 88 | Fuzzy modeling via sector nonlinearity concept. Integrated Computer-Aided Engineering, 2003, 10, 333-341. | 2.5 | 67 |
| 89 | A Flapping Robot with Membrane Wings. Journal of the Robotics Society of Japan, 2003, 21, 916-922. | 0.0 | 0 |
| 90 | Fuzzy Model Following Control. Transactions of the Society of Instrument and Control Engineers, 2000, 36, 204-210. | 0.1 | 1 |

6

| # | Article | IF | CITATIONS |
|-----|---|----|-----------|
| 91 | Fuzzy Control of Nonlinear Time-Delay Systems. , 0, , 291-302. | | 2 |
| 92 | Takagi-Sugeno Fuzzy Model and Parallel Distributed Compensation. , 0, , 5-48. | | 5 |
| 93 | Optimal Fuzzy Control. , 0, , 109-120. | | Ο |
| 94 | Fuzzy Observer Design. , 0, , 83-96. | | 6 |
| 95 | T-S Fuzzy Model as Universal Approximator. , 0, , 277-289. | | 2 |
| 96 | Nonlinear Model Following Control. , 0, , 217-228. | | 1 |
| 97 | Fuzzy Modeling and Control of Chaotic Systems. , 0, , 153-193. | | Ο |
| 98 | New Stability Conditions and Dynamic Feedback Designs. , 0, , 229-257. | | 1 |
| 99 | Fuzzy Descriptor Systems and Control. , 0, , 195-215. | | Ο |
| 100 | Multiobjective Control via Dynamic Parallel Distributed Compensation. , 0, , 259-275. | | 0 |
| 101 | LMI Control Performance Conditions and Designs. , 0, , 49-82. | | 5 |
| 102 | Robust Fuzzy Control. , 0, , 97-108. | | 0 |
| 103 | Robust-Optimal Fuzzy Control. , 0, , 121-131. | | 1 |
| 104 | Trajectory Control of a Vehicle with Multiple Trailers. , 0, , 133-152. | | 0 |

7