

Yeung Yam

List of Publications by Year in descending order

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90
papers

1,843
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394286

19
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414303

32
g-index

92
all docs

92
docs citations

92
times ranked

1101
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A phenomenographic approach on teacher conceptions of teaching Artificial Intelligence (AI) in K-12 schools. <i>Education and Information Technologies</i> , 2023, 28, 1041-1064. | 3.5 | 26 |
| 2 | Creation and Evaluation of a Pretertiary Artificial Intelligence (AI) Curriculum. <i>IEEE Transactions on Education</i> , 2022, 65, 30-39. | 2.0 | 72 |
| 3 | Special Issue on "TP model transformation based control design theories and applications". <i>Asian Journal of Control</i> , 2021, 23, 1237-1237. | 1.9 | 1 |
| 4 | Recent Advances in Surface Plasmon Resonance Imaging Sensors. <i>Sensors</i> , 2019, 19, 1266. | 2.1 | 99 |
| 5 | The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. <i>Scientific Data</i> , 2019, 6, 289. | 2.4 | 19 |
| 6 | Topic Discovery via Convex Polytopic Model: A Case Study with Small Corpora. , 2018, , . | | 1 |
| 7 | CU-brick cable-driven robot for automated construction of complex brick structures: From simulation to hardware realisation. , 2018, , . | | 23 |
| 8 | Parallel probabilistic swarm guidance by exploiting Kronecker product structures in discrete-time Markov chains. , 2017, , . | | 0 |
| 9 | Sliding Mode Control for Discrete-Time Systems With Markovian Packet Dropouts. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 3669-3679. | 6.2 | 45 |
| 10 | Geometrical Interpretation of Feasibility of the Lyapunov Inequalities and Controller Gain Minimization for a Class of Polytopic Systems. <i>IFAC-PapersOnLine</i> , 2017, 50, 5636-5641. | 0.5 | 0 |
| 11 | Kronecker product approximation with multiple factor matrices via the tensor product algorithm. , 2016, , . | | 3 |
| 12 | Minimum LTI exact representation of multi-parameter-dependent systems. , 2016, , . | | 0 |
| 13 | Simplification on a kinetic model network related to hydrogen peroxide metabolism in human erythrocytes. , 2016, , . | | 0 |
| 14 | A Flexible Surgical Robotic System for Removal of Early-Stage Gastrointestinal Cancers by Endoscopic Submucosal Dissection. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 2365-2374. | 7.2 | 46 |
| 15 | Furuta Pendulum – A Tensor Product Model-Based Design Approach Case Study. , 2015, , . | | 12 |
| 16 | Design and Implementation of a Technique for Iterative Magnetorheological Jet Polishing. <i>International Journal of Optomechatronics</i> , 2014, 8, 195-205. | 3.3 | 9 |
| 17 | Control Stability of TP Model Transformation Design via Probabilistic Error Bound of Plant Model. , 2013, , . | | 6 |
| 18 | Computational design and prototype development of optical prism for augmented reality projection. , 2012, , . | | 1 |

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|----|---|-----|-----------|
| 19 | A Sparse and Low-rank approach to efficient face alignment for photo-real talking head synthesis. , 2011, , . | | 6 |
| 20 | A Neural Network of Smooth Hinge Functions. IEEE Transactions on Neural Networks, 2010, 21, 1381-1395. | 4.8 | 9 |
| 21 | Stroke trajectory generation experiment for a robotic Chinese calligrapher using a geometric brush footprint model. , 2009, , . | | 18 |
| 22 | Preliminary study on vision-based pen-and-ink drawing by a robotic manipulator. , 2009, , . | | 3 |
| 23 | Structural analysis based stroke segmentation for Chinese characters. , 2009, , . | | 3 |
| 24 | Experimentation on MR fluid using a 2-axis wheel tool. Journal of Materials Processing Technology, 2009, 209, 5254-5261. | 3.1 | 55 |
| 25 | Model-Based ECG Denoising Using Empirical Mode Decomposition. , 2009, , . | | 20 |
| 26 | A Generalized ECG Dynamic Model with Asymmetric Gaussians and its Application in Model-Based ECG Denoising. , 2009, , . | | 3 |
| 27 | A Mathematical Model For Potassium Channel Conductance in Hodgkin-Huxley Experiments. Proceedings of the American Control Conference, 2007, , . | 0.0 | 0 |
| 28 | Construction of Central Pattern Generator Using Piecewise Affine Systems. , 2007, , . | | 2 |
| 29 | A vortex pump-based optically-transparent microfluidic platform for biotech and medical applications. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2007, 221, 129-141. | 1.0 | 18 |
| 30 | COMPLEXITY RELAXATION OF THE TENSOR PRODUCT MODEL TRANSFORMATION FOR HIGHER DIMENSIONAL PROBLEMS. Asian Journal of Control, 2007, 9, 195-200. | 1.9 | 22 |
| 31 | Interpolation with function space representation of membership functions. IEEE Transactions on Fuzzy Systems, 2006, 14, 398-411. | 6.5 | 66 |
| 32 | Case study of the TP-model transformation in the control of a complex dynamic model with structural nonlinearity. IEEE Transactions on Industrial Electronics, 2006, 53, 895-904. | 5.2 | 29 |
| 33 | Definition of the HOSVD based canonical form of polytopic dynamic models. , 2006, , . | | 54 |
| 34 | Evolutionary Replication of Calligraphic Characters By A Robot Drawing Platform Using Experimentally Acquired Brush Footprint. , 2006, , . | | 11 |
| 35 | Brush Footprint Acquisition and Preliminary Analysis for Chinese Calligraphy using a Robot Drawing Platform. , 2006, , . | | 20 |
| 36 | Determination of Different Polytopic Models of the Prototypical Aeroelastic Wing Section by TP Model Transformation. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2006, 10, 486-493. | 0.5 | 32 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | Adaptation of TS Fuzzy Models Without Complexity Expansion: HOSVD-Based Approach. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 52-60. | 2.4 | 19 |
| 38 | Defending against distributed denial-of-service attacks with max-min fair server-centric router throttles. IEEE/ACM Transactions on Networking, 2005, 13, 29-42. | 2.6 | 173 |
| 39 | From differential equations to PDC controller design via numerical transformation. Computers in Industry, 2003, 51, 281-297. | 5.7 | 133 |
| 40 | SVD-based reduction to MISO TS models. IEEE Transactions on Industrial Electronics, 2003, 50, 232-242. | 5.2 | 38 |
| 41 | Robust Stabilizing Controller by Grid Point Design and Composite SVD Consolidation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 567-572. | 0.4 | 1 |
| 42 | Trade-off between approximation accuracy and complexity: TS controller design via HOSVD based complexity minimization. Studies in Fuzziness and Soft Computing, 2003, , 249-277. | 0.6 | 24 |
| 43 | Singular Value-Based Fuzzy Reduction With Relaxed Normality Condition. Studies in Fuzziness and Soft Computing, 2003, , 325-352. | 0.6 | 8 |
| 44 | SVD-based complexity reduction to TS fuzzy models. IEEE Transactions on Industrial Electronics, 2002, 49, 433-443. | 5.2 | 51 |
| 45 | Performance evaluation and optimization of human control strategy. Robotics and Autonomous Systems, 2002, 39, 19-36. | 3.0 | 27 |
| 46 | Neural-fuzzy based control experiments on a shape memory alloy (SMA) positioning system. , 2001, , . | | 1 |
| 47 | Representing membership functions as elements in function space. , 2001, , . | | 2 |
| 48 | Fuzzy systems are universal approximators for a smooth function and its derivatives. International Journal of Intelligent Systems, 2000, 15, 565-574. | 3.3 | 51 |
| 49 | Why clustering in function approximation? Theoretical explanation. International Journal of Intelligent Systems, 2000, 15, 959-966. | 3.3 | 5 |
| 50 | Modeling and experimentation of a positioning system of SMA wires. , 2000, , . | | 4 |
| 51 | Complexity Reduction of a Generalised Rational Form. , 2000, , 135-159. | | 26 |
| 52 | Complexity reduction of a rational general form. , 1999, , . | | 13 |
| 53 | Singular value-based reduction of fuzzy rule base with non-singleton support. , 1999, , . | | 0 |
| 54 | Reduction of fuzzy rule base via singular value decomposition. IEEE Transactions on Fuzzy Systems, 1999, 7, 120-132. | 6.5 | 218 |

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| 55 | Multi-resolution techniques in the rules-based intelligent control systems: a universal approximation result. , 1999, , . | | 2 |
| 56 | Extending Shannon's Theorem to a General Juggling Pattern. Studies in Applied Mathematics, 1998, 100, 53-66. | 1.1 | 2 |
| 57 | Complex recurrent neural network for computing the inverse and pseudo-inverse of the complex matrix. Applied Mathematics and Computation, 1998, 93, 195-205. | 1.4 | 49 |
| 58 | System identification and control synthesis for a benchmark problem. IEEE Transactions on Control Systems Technology, 1998, 6, 103-110. | 3.2 | 2 |
| 59 | Fuzzy approximation via grid point sampling and singular value decomposition. IEEE Transactions on Systems, Man, and Cybernetics, 1997, 27, 933-951. | 5.5 | 99 |
| 60 | Derivation of an Improved Hodgkin-Huxley Model for Potassium Channel by Means of the Fokker-Planck Equation. Journal of Statistical Physics, 1997, 89, 997-1016. | 0.5 | 4 |
| 61 | Integrated identification/discrete H^{∞} synthesis for spacecraft pointing control. , 1993, , . | | 0 |
| 62 | Stabilizing controller by local linearization and SVD consolidation. , 0, , . | | 3 |
| 63 | Integrated identification/control synthesis with approximate fractional frequency weighting. , 0, , . | | 1 |
| 64 | Performance-based fuzzy gain controller. , 0, , . | | 0 |
| 65 | Two point training for complex plane transformation. , 0, , . | | 0 |
| 66 | Singular value-based identification of fuzzy system. , 0, , . | | 0 |
| 67 | Singular value-based approximation with Takagi-Sugeno type fuzzy rule base. , 0, , . | | 39 |
| 68 | Singular value-based fuzzy rule interpolation. , 0, , . | | 3 |
| 69 | Decision making based on satellite images: optimal fuzzy clustering approach. , 0, , . | | 6 |
| 70 | A general extension of fuzzy SVD rule base reduction using arbitrary inference algorithm. , 0, , . | | 2 |
| 71 | Optimization of human control strategy with simultaneously perturbed stochastic approximation. , 0, , . | | 1 |
| 72 | Cartesian representation for fuzzy interpolation. , 0, , . | | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|----|-----------|
| 73 | Two performance measures for evaluating human control strategy. , 0, , . | | 7 |
| 74 | Towards faster, smoother, and more compact fuzzy approximation, with an application to non-destructive evaluation of space shuttle's structural integrity. , 0, , . | | 1 |
| 75 | Complexity reduction of singleton based neuro-fuzzy algorithm. , 0, , . | | 34 |
| 76 | SVD based reduction for subdivided rule bases. , 0, , . | | 1 |
| 77 | Extracting fuzzy sparse rules by Cartesian representation and clustering. , 0, , . | | 2 |
| 78 | Control of a SMA actuated artificial face via neuro-fuzzy techniques. , 0, , . | | 3 |
| 79 | A proposal for manipulating Nafion micro actuators using neural-fuzzy based control. , 0, , . | | 0 |
| 80 | HOSVD based computational complexity reduction of TS fuzzy models. , 0, , . | | 5 |
| 81 | Fuzzy interpolation with Cartesian representation and extensibility functions. , 0, , . | | 0 |
| 82 | Minimizing TS controller via HOSVD. , 0, , . | | 0 |
| 83 | Adaption without rule base size expansion: HOSVD based approach. , 0, , . | | 0 |
| 84 | A scaled-down testbed for human driver modeling and evaluation. , 0, , . | | 1 |
| 85 | Fuzzy controller/observer via grid point design and SVD consolidation. , 0, , . | | 1 |
| 86 | On application of grid point sampling and SVD consolidation approach. , 0, , . | | 1 |
| 87 | GA-based Homography Transformation for Vision Rectification in Robot Drawing System. , 0, , . | | 4 |
| 88 | Vision System and Projective Rectification For A Robot Drawing Platform. , 0, , . | | 7 |
| 89 | Different affine decomposition of the model of the prototypical aeroelastic wing section by TP model transformation. , 0, , . | | 13 |
| 90 | Genetic Algorithm-Based Brush Stroke Generation for Replication of Chinese Calligraphic Character. , 0, , . | | 6 |