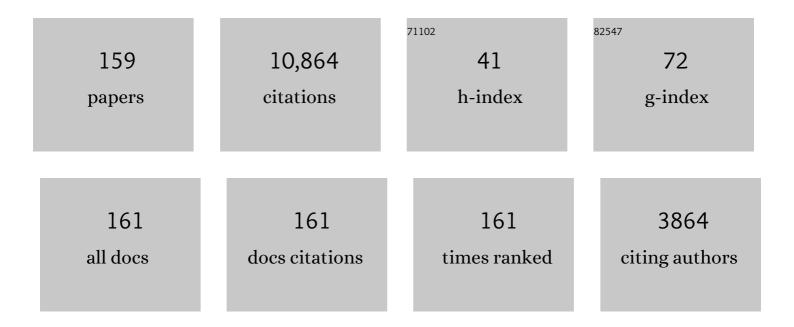
## Fl Lewis

List of Publications by Year in descending order

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FILEWIS

| #  | Article                                                                                                                                                                        | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Multilayer neural-net robot controller with guaranteed tracking performance. IEEE Transactions on<br>Neural Networks, 1996, 7, 388-399.                                        | 4.2 | 948       |
| 2  | Discrete-Time Nonlinear HJB Solution Using Approximate Dynamic Programming: Convergence Proof.<br>IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 943-949.       | 5.0 | 865       |
| 3  | Adaptive optimal control for continuous-time linear systems based on policy iteration. Automatica, 2009, 45, 477-484.                                                          | 5.0 | 681       |
| 4  | Control of a nonholonomic mobile robot using neural networks. IEEE Transactions on Neural<br>Networks, 1998, 9, 589-600.                                                       | 4.2 | 586       |
| 5  | Neural net robot controller with guaranteed tracking performance. IEEE Transactions on Neural<br>Networks, 1995, 6, 703-715.                                                   | 4.2 | 557       |
| 6  | A novel actor–critic–identifier architecture for approximate optimal control of uncertain nonlinear<br>systems. Automatica, 2013, 49, 82-92.                                   | 5.0 | 439       |
| 7  | Robust backstepping control of nonlinear systems using neural networks. IEEE Transactions on<br>Systems, Man and Cybernetics, Part A: Systems and Humans, 2000, 30, 753-766.   | 2.9 | 385       |
| 8  | Feedback linearization using neural networks. Automatica, 1995, 31, 1659-1664.                                                                                                 | 5.0 | 371       |
| 9  | Control of a nonholonomic mobile robot: backstepping kinematics into dynamics. , 0, , .                                                                                        |     | 351       |
| 10 | Deadzone compensation in motion control systems using neural networks. IEEE Transactions on Automatic Control, 2000, 45, 602-613.                                              | 5.7 | 317       |
| 11 | Neural network output feedback control of robot manipulators. IEEE Transactions on Automation Science and Engineering, 1999, 15, 301-309.                                      | 2.3 | 245       |
| 12 | Neural-network predictive control for nonlinear dynamic systems with time-delay. IEEE Transactions on Neural Networks, 2003, 14, 377-389.                                      | 4.2 | 223       |
| 13 | Stochastic optimal control of unknown linear networked control system in the presence of random delays and packet losses. Automatica, 2012, 48, 1017-1030.                     | 5.0 | 192       |
| 14 | Optimal design of CMAC neural-network controller for robot manipulators. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2000, 30, 22-31. | 2.9 | 185       |
| 15 | Deadzone compensation in motion control systems using adaptive fuzzy logic control. IEEE<br>Transactions on Control Systems Technology, 1999, 7, 731-742.                      | 5.2 | 175       |
| 16 | Neurodynamic Programming and Zero-Sum Games for Constrained Control Systems. IEEE Transactions on Neural Networks, 2008, 19, 1243-1252.                                        | 4.2 | 169       |
| 17 | Multilayer discrete-time neural-net controller with guaranteed performance. IEEE Transactions on<br>Neural Networks, 1996, 7, 107-130.                                         | 4.2 | 164       |
| 18 | Online solution of nonlinear twoâ€player zeroâ€sum games using synchronous policy iteration.<br>International Journal of Robust and Nonlinear Control, 2012, 22, 1460-1483.    | 3.7 | 161       |

| #  | Article                                                                                                                                                                                    | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Robust backstepping control of induction motors using neural networks. IEEE Transactions on Neural Networks, 2000, 11, 1178-1187.                                                          | 4.2 | 151       |
| 20 | Neural-network approximation of piecewise continuous functions: application to friction compensation. IEEE Transactions on Neural Networks, 2002, 13, 745-751.                             | 4.2 | 140       |
| 21 | Deadzone compensation in motion control systems using neural networks. , 0, , .                                                                                                            |     | 136       |
| 22 | A tutorial on the geometric analysis of linear time-invariant implicit systems. Automatica, 1992, 28, 119-137.                                                                             | 5.0 | 132       |
| 23 | Discrete-time neural net controller for a class of nonlinear dynamical systems. IEEE Transactions on<br>Automatic Control, 1996, 41, 1693-1699.                                            | 5.7 | 123       |
| 24 | Robust neural-network control of rigid-link electrically driven robots. IEEE Transactions on Neural<br>Networks, 1998, 9, 581-588.                                                         | 4.2 | 123       |
| 25 | ldentification of nonlinear dynamical systems using multilayered neural networks. Automatica, 1996,<br>32, 1707-1712.                                                                      | 5.0 | 116       |
| 26 | NONLINEAR NETWORK STRUCTURES FOR FEEDBACK CONTROL. Asian Journal of Control, 1999, 1, 205-228.                                                                                             | 3.0 | 115       |
| 27 | Neural network control of robot manipulators. IEEE Intelligent Systems, 1996, 11, 64-75.                                                                                                   | 1.0 | 102       |
| 28 | Reinforcement adaptive learning neural-net-based friction compensation control for high speed and precision. IEEE Transactions on Control Systems Technology, 2000, 8, 118-126.            | 5.2 | 96        |
| 29 | Active suspension control of ground vehicle based on a full-vehicle model. , 2000, , .                                                                                                     |     | 95        |
| 30 | A new matrix model for discrete event systems: application to simulation. IEEE Control Systems, 1997, 17, 62-71.                                                                           | 0.8 | 89        |
| 31 | CMAC neural networks for control of nonlinear dynamical systems: Structure, stability and passivity.<br>Automatica, 1997, 33, 635-641.                                                     | 5.0 | 86        |
| 32 | Neural network approximation of piecewise continuous functions: application to friction compensation. , 0, , .                                                                             |     | 81        |
| 33 | Decentralized continuous robust controller for mobile robots. , 0, , .                                                                                                                     |     | 80        |
| 34 | A review of 2-D implicit systems. Automatica, 1992, 28, 345-354.                                                                                                                           | 5.0 | 78        |
| 35 | Implementation of a neural network tracking controller for a single flexible link: comparison with PD and PID controllers. IEEE Transactions on Industrial Electronics, 1998, 45, 307-318. | 7.9 | 76        |
| 36 | Internet-based educational control systems lab using NetMeeting. IEEE Transactions on Education, 2002, 45, 145-151.                                                                        | 2.4 | 70        |

| #  | Article                                                                                                                                                                      | IF  | CITATIONS |
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| 37 | Towards a paradigm for fuzzy logic control. Automatica, 1996, 32, 167-181.                                                                                                   | 5.0 | 68        |
| 38 | Adaptive fuzzy logic control of discrete-time dynamical systems. Automatica, 2000, 36, 229-241.                                                                              | 5.0 | 68        |
| 39 | Design and implementation of industrial neural network controller using backstepping. IEEE<br>Transactions on Industrial Electronics, 2003, 50, 193-201.                     | 7.9 | 68        |
| 40 | Hybrid control for a class of underactuated mechanical systems. IEEE Transactions on Systems, Man<br>and Cybernetics, Part A: Systems and Humans, 1999, 29, 649-654.         | 2.9 | 65        |
| 41 | Neural Network Control of Robot Arms and Nonlinear Systems. , 1997, , 161-211.                                                                                               |     | 60        |
| 42 | Disturbance and Friction Compensations in Hard Disk Drives Using Neural Networks. IEEE<br>Transactions on Industrial Electronics, 2010, 57, 784-792.                         | 7.9 | 59        |
| 43 | Two-time scale fuzzy logic controller of flexible link robot arm. Fuzzy Sets and Systems, 2003, 139, 125-149.                                                                | 2.7 | 57        |
| 44 | Intelligent material handling: development and implementation of a matrix-based discrete-event controller. IEEE Transactions on Industrial Electronics, 2001, 48, 1087-1097. | 7.9 | 55        |
| 45 | Geometric design techniques for observers in singular systems. Automatica, 1990, 26, 411-415.                                                                                | 5.0 | 51        |
| 46 | On the regularizability of singular systems. IEEE Transactions on Automatic Control, 1990, 35, 1156-1160.                                                                    | 5.7 | 50        |
| 47 | On the analysis of discrete linear time-invariant singular systems. IEEE Transactions on Automatic<br>Control, 1990, 35, 506-511.                                            | 5.7 | 48        |
| 48 | Geometric structure and feedback in singular systems. IEEE Transactions on Automatic Control, 1989, 34, 450-455.                                                             | 5.7 | 46        |
| 49 | Deadzone compensation in discrete time using adaptive fuzzy logic. IEEE Transactions on Fuzzy<br>Systems, 1999, 7, 697-707.                                                  | 9.8 | 46        |
| 50 | Adaptive optimal control algorithm for continuous-time nonlinear systems based on policy iteration. , 2008, , .                                                              |     | 40        |
| 51 | Control of a MEMS optical switch. , 2004, , .                                                                                                                                |     | 38        |
| 52 | Feedback Linearization using CMAC Neural Networks. Automatica, 1998, 34, 547-557.                                                                                            | 5.0 | 36        |
| 53 | A geometric theory for derivative feedback. IEEE Transactions on Automatic Control, 1991, 36, 1111-1116.                                                                     | 5.7 | 35        |
| 54 | Matrix approach to deadlock-free dispatching in multi-class finite buffer flowlines. IEEE Transactions<br>on Automatic Control, 2000, 45, 2086-2090.                         | 5.7 | 35        |

| #  | Article                                                                                                                                                                | IF  | CITATIONS |
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| 55 | A framework for hybrid control design. IEEE Transactions on Systems, Man and Cybernetics, Part A:<br>Systems and Humans, 1997, 27, 765-773.                            | 2.9 | 32        |
| 56 | Robust adaptive control of robots using neural network: global tracking stability. , 0, , .                                                                            |     | 28        |
| 57 | Fuzzy controller for flexible-link robot arm by reduced-order techniques. IET Control Theory and Applications, 2002, 149, 177-187.                                     | 1.7 | 28        |
| 58 | Practical point stabilization of a nonholonomic mobile robot using neural networks. , 0, , .                                                                           |     | 27        |
| 59 | Nonlinear observer design using dynamic recurrent neural networks. , 0, , .                                                                                            |     | 25        |
| 60 | Online solution of nonlinear two-player zero-sum games using synchronous policy iteration. , 2010, , .                                                                 |     | 25        |
| 61 | Robust eigenvalue assignment for generalized systems. Automatica, 1992, 28, 1223-1228.                                                                                 | 5.0 | 23        |
| 62 | Neural net robot controller with guaranteed tracking performance. , 0, , .                                                                                             |     | 23        |
| 63 | Adaptive critic neural network for feedforward compensation. , 1999, , .                                                                                               |     | 23        |
| 64 | Multimodel neural networks identification and failure detection of nonlinear systems. , 0, , .                                                                         |     | 23        |
| 65 | Neural net robot controller: structure and stability proofs. , 0, , .                                                                                                  |     | 21        |
| 66 | Adaptive fuzzy logic control of discrete-time dynamical systems. , 0, , .                                                                                              |     | 21        |
| 67 | A fuzzy system compensator for backlash. , 0, , .                                                                                                                      |     | 21        |
| 68 | An implementation of the matrix-based supervisory controller of flexible manufacturing systems. IEEE<br>Transactions on Control Systems Technology, 2002, 10, 709-716. | 5.2 | 21        |
| 69 | Transmission zero assignment using semistate descriptions. IEEE Transactions on Automatic Control, 1993, 38, 1115-1120.                                                | 5.7 | 20        |
| 70 | Adaptive-fuzzy logic control of robot manipulators. , 0, , .                                                                                                           |     | 20        |
| 71 | Robust implicit self-tuning regulator: Convergence and stability. Automatica, 1996, 32, 1629-1644.                                                                     | 5.0 | 20        |
| 72 | Function approximation by fuzzy systems. , 0, , .                                                                                                                      |     | 18        |

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| 73 | Backstepping based fuzzy logic control of active vehicle suspension systems. , 2000, , .                                                              |     | 18        |
| 74 | Wireless sensor network for machine condition based maintenance. , 0, , .                                                                             |     | 18        |
| 75 | Optimal adaptive control for unknown systems using output feedback by reinforcement learning methods. , 2010, , .                                     |     | 18        |
| 76 | Chained aggregation of singular systems. IEEE Transactions on Automatic Control, 1989, 34, 1007-1012.                                                 | 5.7 | 17        |
| 77 | Discrete-time neural net controller with guaranteed performance. , 0, , .                                                                             |     | 17        |
| 78 | Control of unknown nonlinear dynamical systems using CMAC neural networks: structure, stability, and passivity. , 0, , .                              |     | 17        |
| 79 | Kalman decomposition for implicit linear systems. IEEE Transactions on Automatic Control, 1992, 37, 1509-1514.                                        | 5.7 | 16        |
| 80 | Backlash compensation in nonlinear systems using dynamic inversion by neural networks. , 0, , .                                                       |     | 16        |
| 81 | Hamilton-Jacobi-Isaacs formulation for constrained input nonlinear systems. , 2004, , .                                                               |     | 15        |
| 82 | Robust Adaptive Control of Robots Using Neural Network: Global Stability. Asian Journal of Control, 2001, 3, 111-121.                                 | 3.0 | 15        |
| 83 | Feedforward control based on neural networks for disturbance rejection in hard disk drives. IET<br>Control Theory and Applications, 2009, 3, 411-418. | 2.1 | 15        |
| 84 | Walsh function analysis of 2-D generalized continuous systems. IEEE Transactions on Automatic Control, 1990, 35, 1140-1144.                           | 5.7 | 13        |
| 85 | Output feedback control of rigid robots using dynamic neural networks. , 0, , .                                                                       |     | 13        |
| 86 | Deadzone compensation in nonlinear systems using neural networks. , 0, , .                                                                            |     | 13        |
| 87 | Active suspension control using a novel strut and active filtered feedback: design and implementation. , 0, , .                                       |     | 13        |
| 88 | Backlash compensation in discrete time nonlinear systems using dynamic inversion by neural networks. , 0, , .                                         |     | 13        |
| 89 | Policy iteration for continuous-time systems with unknown internal dynamics. , 2007, , .                                                              |     | 13        |
| 90 | Reinforcement adaptive learning neural network based friction compensation for high speed and precision. , 0, , .                                     |     | 12        |

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| 91  | A note on Kalman filtering. IEEE Transactions on Education, 1999, 42, 225-227.                                                                                                              | 2.4 | 12        |
| 92  | ROBUST NEURAL NETWORK CONTROL OF RIGID LINK FLEXIBLEâ€JOINT ROBOTS. Asian Journal of Control, 1999, 1, 188-197.                                                                             | 3.0 | 12        |
| 93  | Stochastic Optimal Design for Unknown Linear Discreteâ€Time System Zeroâ€5um Games in Inputâ€Output<br>form Under Communication Constraints. Asian Journal of Control, 2014, 16, 1263-1276. | 3.0 | 12        |
| 94  | A geometric approach to proportional-plus-derivative feedback using quotient and partitioned subspaces. Automatica, 1991, 27, 349-369.                                                      | 5.0 | 11        |
| 95  | Flow-shop scheduling design in an FMS matrix framework. Control Engineering Practice, 1995, 3, 561-568.                                                                                     | 5.5 | 11        |
| 96  | Nearly optimal HJB solution for constrained input systems using a neural network least-squares approach. , 0, , .                                                                           |     | 11        |
| 97  | Discrete adaptive neural network disturbance feedforward compensation for non-linear disturbances in servo-control applications. International Journal of Control, 2009, 82, 721-740.       | 1.9 | 11        |
| 98  | Backlash compensation with filtered prediction in discrete time nonlinear systems by dynamic inversion using neural networks. , 0, , .                                                      |     | 10        |
| 99  | A Hamilton-Jacobi setup for constrained neural network control. , 2003, , .                                                                                                                 |     | 9         |
| 100 | Controller for swing-up and balance of single inverted pendulum using SDRE-based solution. , 2005, , .                                                                                      |     | 9         |
| 101 | Deployment Algorithms and In-Door Experimental Vehicles for Studying Mobile Wireless Sensor<br>Networks. , 0, , .                                                                           |     | 9         |
| 102 | Dynamic Equations of a Manipulator With Rigid and Flexible Links: Derivation and Symbolic Computation. , 1993, , .                                                                          |     | 9         |
| 103 | Hybrid Feedback Linearization/Fuzzy Logic Control of a Flexible Link Manipulator. Journal of<br>Intelligent and Fuzzy Systems, 1994, 2, 325-336.                                            | 1.4 | 8         |
| 104 | Analysis of deadlocks and circular waits using a matrix model for discrete event systems. , 0, , .                                                                                          |     | 8         |
| 105 | Open vs. Closed-Loop Control of the MEMS Electrostatic Comb Drive. , 0, , .                                                                                                                 |     | 8         |
| 106 | Robust neural network control of flexible-joint robots. , 0, , .                                                                                                                            |     | 7         |
| 107 | Direct-reinforcement-adaptive-learning neural network control for nonlinear systems. , 1997, , .                                                                                            |     | 7         |
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108 Robotic Deployment for Environmental Sampling Applications. , 0, , .

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| #   | Article                                                                                                                                                          | IF  | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | A geometric approach to 2-D implicit systems. , 1990, , .                                                                                                        |     | 6         |
| 110 | Robust control of a continuous stirred-tank reactor. , 0, , .                                                                                                    |     | 6         |
| 111 | Discrete-time CMAC neural networks for control applications. , 0, , .                                                                                            |     | 6         |
| 112 | Motion planning and control for non-holonomic mobile robots. , 0, , .                                                                                            |     | 6         |
| 113 | Design and stability analysis of adaptive-fuzzy controllers for a class of nonlinear systems. , 0, , .                                                           |     | 6         |
| 114 | Matrix approach to deadlock avoidance of dispatching in multi-class finite buffer reentrant flow lines. , 0, , .                                                 |     | 6         |
| 115 | On adaptive critic architectures in feedback control. , 0, , .                                                                                                   |     | 6         |
| 116 | Platoon-stable adaptive controller design. , 2004, , .                                                                                                           |     | 6         |
| 117 | Neural Network H∞ State Feedback Control with Actuator Saturation: The Nonlinear Benchmark<br>Problem. , 0, , .                                                  |     | 6         |
| 118 | Optimal Tracking Control of Uncertain Systems. , 2016, , 165-186.                                                                                                |     | 6         |
| 119 | Control of a nonholonomic mobile robot using neural networks. , 0, , .                                                                                           |     | 5         |
| 120 | Matrix Computational Framework for Discrete Event Control of Wireless Sensor Networks with<br>Some Mobile Agents. , 0, , .                                       |     | 5         |
| 121 | Data-Logging and Supervisory Control in Wireless Sensor Networks. , 0, , .                                                                                       |     | 5         |
| 122 | A singular perturbation approach to stabilization of the internal dynamics of multilink flexible robots. , 0, , .                                                |     | 4         |
| 123 | Techniques in 2-D Implicit Systems. Control and Dynamic Systems, 1995, 69, 89-131.                                                                               | 0.1 | 4         |
| 124 | A neural net controller for robots with Hebbian tuning and guaranteed tracking. , 0, , .                                                                         |     | 4         |
| 125 | Stabilization of a class of nonlinear systems with ill-defined relative degree. , 0, , .                                                                         |     | 4         |
| 126 | Approximation-Based Neural Network and Fuzzy Logic Control. IFAC Postprint Volumes IPPV /<br>International Federation of Automatic Control, 1996, 29, 5274-5279. | 0.4 | 4         |

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| 127 | Deadzone compensation in discrete time using adaptive fuzzy logic. , 0, , .                                                                                  |     | 4         |
| 128 | New matrix formulation for supervisory controller design in practical flexible manufacturing system. , 1999, , .                                             |     | 4         |
| 129 | State feedback design using reduced-order nonsquare descriptions. IEEE Transactions on Automatic Control, 1992, 37, 1431-1436.                               | 5.7 | 3         |
| 130 | An improved result on the stability analysis of nonlinear systems. IEEE Transactions on Automatic<br>Control, 1992, 37, 1425-1431.                           | 5.7 | 3         |
| 131 | A neural network controller for flexible-link robots. , 0, , .                                                                                               |     | 3         |
| 132 | Direct-reinforcement-adaptive-learning fuzzy logic control for a class of nonlinear systems. , 0, , .                                                        |     | 3         |
| 133 | Deadzone compensation in motion control systems using adaptive fuzzy logic control. , 0, , .                                                                 |     | 3         |
| 134 | Neural net backlash compensation with Hebbian tuning by dynamic inversion. , 0, , .                                                                          |     | 3         |
| 135 | Design and implementation of industrial neural network controller using backstepping. , 0, , .                                                               |     | 3         |
| 136 | Neural network frequency control for thermal power systems. , 2004, , .                                                                                      |     | 3         |
| 137 | Teaching Discrete Event Control of Manufacturing Systems. IFAC Postprint Volumes IPPV /<br>International Federation of Automatic Control, 1997, 30, 261-266. | 0.4 | 2         |
| 138 | New developments in neurocontrol. , 0, , .                                                                                                                   |     | 2         |
| 139 | Timed matrix-based model of flexible manufacturing systems. , 0, , .                                                                                         |     | 2         |
| 140 | Robust Composite Saturation Compensation for a Single Flexible Link Using Neural Networks. , 0, , .                                                          |     | 2         |
| 141 | State feedback design using nonsquare descriptions. , 1990, , .                                                                                              |     | 1         |
| 142 | Robust force/motion control of flexible-joint robots using neural networks. , 0, , .                                                                         |     | 1         |
| 143 | Fuzzy logic approximation to unknown dynamic systems via input-output measurements. , 0, , .                                                                 |     | 1         |
| 144 | Hamilton-Jacobi-Bellman optimal design of CMAC neural network controller for robot manipulators.<br>, 0, , .                                                 |     | 1         |

| #   | Article                                                                                                                                                                            | IF       | CITATIONS     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|
| 145 | Computational complexity of determining resource loops in re-entrant flow lines. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2000, 30, 222-229. | 2.9      | 1             |
| 146 | Experimentally verified procedure for determining dynamical model of the ETM MEMS structures. , 0, , .                                                                             |          | 1             |
| 147 | Matrix-based discrete event control of automated material handling systems. , 2006, , .                                                                                            |          | 1             |
| 148 | Matrix-based scheduling and control of a mobile sensor network. IFAC Postprint Volumes IPPV /<br>International Federation of Automatic Control, 2008, 41, 10415-10420.             | 0.4      | 1             |
| 149 | Geometric Structure and Output Feedback. , 1991, , .                                                                                                                               |          | 1             |
| 150 | A general compensator synthesis approach for generalized systems using (C;E,A;B)-pairs. , 0, , .                                                                                   |          | 0             |
| 151 | Computing LQG/H/sub $\hat{a}^{z}$ / bounded control with guaranteed convergence. , 0, , .                                                                                          |          | 0             |
| 152 | Robust neural network control of rigid-link electrically-driven robots. , 0, , .                                                                                                   |          | 0             |
| 153 | Trajectory planning and robust stabilization for auto-drive cars. (Build a control center on your car) Tj ETQq1 1 0.                                                               | 784314 r | ∙gBT /Overlo⊂ |
| 154 | Implementation of a neural net tracking controller for a single flexible link: comparison with PD and PID controllers. , 1997, , .                                                 |          | 0             |
| 155 | A hybrid control approach for a class of underactuated mechanical systems. , 0, , .                                                                                                |          | 0             |
| 156 | Routing algorithms in hierachical mesh networks with failure recovery. , 0, , .                                                                                                    |          | 0             |
| 157 | Behaviour-Based Vision-Guided Teleoperated Mems Probestation. , 0, , .                                                                                                             |          | 0             |
| 158 | Neural networks for feedback control of robots and dynamical systems. , 0, , .                                                                                                     |          | 0             |
| 159 | Transmission Zero Assignment using Semistate Descriptions. , 1992, , .                                                                                                             |          | Ο             |