Bor-Sen Chen

List of Publications by Year in Descending Order

329 papers	7,394 citations	43 h-index	74 g-index
374 ext. papers	9,158 ext. citations	4.1 avg, IF	6.32 L-index

#	Paper	IF	Citations
329	Investigating the Role of Obesity in Prostate Cancer and Identifying Biomarkers for Drug Discovery: Systems Biology and Deep Learning Approaches.. *Molecules*, **2022**, 27,	4.8	1
328	Systematic Design of a Quorum Sensing-Based Biosensor for the Detection of Metal Ions in Escherichia coli **2022**, 89-110		
327	Networked Security Observer-Based Reference Tracking Control of Stochastic Quadrotor UAV System Under Cyber-Attack:T-S Fuzzy Approach. *IEEE Access*, **2022**, 10, 30296-30322	3.5	
326	Robust H Observer-based Reference Tracking Control Design of Nonlinear Stochastic Systems : HJIE-embedded Deep Learning Approach. *IEEE Access*, **2022**, 1-1	3.5	
325	Noncooperative and Cooperative Multi-Player Minmax H Mean-Field Target Tracking Game Strategy of Nonlinear Mean Field Stochastic Systems with Application to Cyber-Financial Systems. *IEEE Access*, **2022**, 1-1	3.5	
324	Robust H Network Observer-based Attack-Tolerant Path Tracking Control of Autonomous Ground Vehicle. *IEEE Access*, **2022**, 1-1	3.5	2
323	Stochastic Robust H Decentralized Network Formation Tracking Control of Large-Scale Team Satellites via Event-Triggered Mechanism. *IEEE Access*, **2022**, 1-1	3.5	1
322	Robust H Deep Neural Network-Based Filter Design of Nonlinear Stochastic Signal Systems. *IEEE Access*, **2021**, 1-1	3.5	0
321	Robust H NLOS-Tolerant Localization Filter and NLOS-Tolerant Remote Reference Tracking Control of Mobile Robot in Wireless Sensor Networks. *IEEE Access*, **2021**, 9, 164801-164819	3.5	0
320	Investigating Pathogenetic Mechanisms of Alzheimer's Disease by Systems Biology Approaches for Drug Discovery. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
319	Multiple-Molecule Drug Design Based on Systems Biology Approaches and Deep Neural Network to Mitigate Human Skin Aging. *Molecules*, **2021**, 26,	4.8	3
318	Robust Decentralized Formation Tracking Control for Stochastic Large-Scale Biped Robot Team System Under External Disturbance and Communication Requirements. *IEEE Transactions on Control of Network Systems*, **2021**, 8, 654-666	4	0
317	Fault detection filtering for It type affine nonlinear stochastic systems. *Asian Journal of Control*, **2021**, 23, 620-635	1.7	2
316	DNN-Based H Control Scheme of Nonlinear Time-Varying Dynamic Systems With External Disturbance and its Application to UAV Tracking Design. *IEEE Access*, **2021**, 9, 69635-69653	3.5	3
315	Robust Stochastic Observer-Based Attack-Tolerant Missile Guidance Control Design Under Malicious Actuator and Sensor Attacks. *IEEE Access*, **2021**, 9, 109652-109670	3.5	0
314	Stochastic H Robust Decentralized Tracking Control of Large-Scale Team Formation UAV Network System With Time-Varying Delay and Packet Dropout Under Interconnected Couplings and Wiener Fluctuations. *IEEE Access*, **2021**, 9, 41976-41997	3.5	6
313	Reverse-Order Multi-Objective Evolution Algorithm for Multi-Objective Observer-Based Fault-Tolerant Control of T-S Fuzzy Systems. *IEEE Access*, **2021**, 9, 1556-1574	3.5	2

312	Aerobic glycolysis supports hepatitis B virus protein synthesis through interaction between viral surface antigen and pyruvate kinase isoform M2. *PLoS Pathogens*, **2021**, 17, e1008866	7.6	3
311	Robust State/Fault Estimation and Fault-Tolerant Control in Discrete-Time T-S Fuzzy Systems: An Embedded Smoothing Signal Model Approach. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	3
310	Recurrent Neural Network With Fractional Learning-Based Fixed-Time Formation Tracking Constrained Control for a Group of Quadrotors. *IEEE Access*, **2021**, 9, 81399-81411	3.5	1
309	Multiplayer Noncooperative and Cooperative Minimax H Tracking Game Strategies for Linear Mean-Field Stochastic Systems With Applications to Cyber-Social Systems. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	1
308	Fuzzy Adaptive Finite-Time Cooperative Control With Input Saturation for Nonlinear Multiagent Systems and its Application. *IEEE Access*, **2020**, 8, 105507-105520	3.5	3
307	Investigation of the Genome-Wide Genetic and Epigenetic Networks for Drug Discovery Based on Systems Biology Approaches in Colorectal Cancer. *Frontiers in Genetics*, **2020**, 11, 117	4.5	3
306	Stochastic Robust Team Tracking Control of Multi-UAV Networked System Under Wiener and Poisson Random Fluctuations. *IEEE Transactions on Cybernetics*, **2020**,	10.2	8
305	Erratum to Security-Enhanced Filter Design for Stochastic Systems Under Malicious Attack via Smoothed Signal Model and Multiobjective Estimation Method [20 4971-4986]. *IEEE Transactions on Signal Processing*, **2020**, 68, 5923-5923	4.8	
304	Noncooperative and Cooperative Strategy Designs for Nonlinear Stochastic Jump Diffusion Systems With External Disturbance: T S Fuzzy Approach. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 2437-2451	8.3	7
303	Multi-Objective Power Minimization Design for Energy Efficiency in Multicell Multiuser MIMO Beamforming System. *IEEE Transactions on Green Communications and Networking*, **2020**, 4, 31-45	4	1
302	Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-12	7.3	6
301	Investigating Core Signaling Pathways of Hepatitis B Virus Pathogenesis for Biomarkers Identification and Drug Discovery via Systems Biology and Deep Learning Method. *Biomedicines*, **2020**, 8,	4.8	2
300	Security-Enhanced Filter Design for Stochastic Systems under Malicious Attack via Smoothed Signal Model and Multiobjective Estimation Method. *IEEE Transactions on Signal Processing*, **2020**, 68, 4971-4986	4.8	8
299	Stochastic Robust Team Formation Tracking Design of Multi-VTOL-UAV Networked Control System in Smart City Under Time-Varying Delay and Random Fluctuation. *IEEE Access*, **2020**, 8, 131310-131326	3.5	4
298	Multiobjective control for nonlinear stochastic Poisson jump-diffusion systems via T-S fuzzy interpolation and Pareto optimal scheme. *Fuzzy Sets and Systems*, **2020**, 385, 148-168	3.7	5
297	Multiobjective Beamforming Power Control for Robust SINR Target Tracking and Power Efficiency in Multicell MU-MIMO Wireless System. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 6200-6214	6.8	5
296	Investigation mechanisms between normal, developing and regenerating livers for regenerative liver drug design. *Regenerative Medicine*, **2019**, 14, 359-387	2.5	
295	Comparing progression molecular mechanisms between lung adenocarcinoma and lung squamous cell carcinoma based on genetic and epigenetic networks: big data mining and genome-wide systems identification. *Oncotarget*, **2019**, 10, 3760-3806	3.3	8

276	On the Evolution Measurement of Somatic Networks by the Changes of Their Robustness and Response Ability in the Aging Process via Microarray Data **2018**, 285-310		
275	Changes of signal transductivity and robustness of gene regulatory network in the carcinogenesis of leukemic subtypes via microarray sample data. *Oncotarget*, **2018**, 9, 23636-23660	3.3	
274	Functional Characterization of Insulation Effect for Synthetic Gene Circuits in Mammalian Cells. *ACS Synthetic Biology*, **2018**, 7, 412-418	5.7	3
273	On the System Entropy and Energy Dissipativity of Stochastic Systems and Their Application in Biological Systems. *Complexity*, **2018**, 2018, 1-18	1.6	6
272	Noncooperative Game Strategy in Cyber-Financial Systems With Wiener and Poisson Random Fluctuations: LMIs-Constrained MOEA Approach. *IEEE Transactions on Cybernetics*, **2018**, 48, 3323-3336	10.2	16
271	H∞Robust Tracking Control of Stochastic T-S Fuzzy Systems with Poisson Jumps. *Mathematical Problems in Engineering*, **2018**, 2018, 1-14	1.1	3
270	Investigating Pathogenic and Hepatocarcinogenic Mechanisms from Normal Liver to HCC by Constructing Genetic and Epigenetic Networks via Big Genetic and Epigenetic Data Mining and Genome-Wide NGS Data Identification. *Disease Markers*, **2018**, 2018, 8635329	3.2	7
269	Analysis for the Robust H_{∞} Synchronization of Nonlinear Stochastic Coupling Networks Through Poisson Processes and Core Coupling Design. *IEEE Transactions on Control of Network Systems*, **2017**, 4, 223-235	4	4
268	LaSalle-Type Theorem and Its Applications to Infinite Horizon Optimal Control of Discrete-Time Nonlinear Stochastic Systems. *IEEE Transactions on Automatic Control*, **2017**, 62, 250-261	5.9	56
267	Multiobjective Investment Policy for a Nonlinear Stochastic Financial System: A Fuzzy Approach. *IEEE Transactions on Fuzzy Systems*, **2017**, 25, 460-474	8.3	24
266	Procedure for Exploring Big Mechanisms of Systems Biology Through System Identification and Big Database Mining **2017**, 29-37		
265	Big Offensive and Defensive Mechanisms in Systems Immunity From System Modeling and Big Data Mining **2017**, 249-372		
264	Big Mechanisms of Aging via System Identification and Big Database Mining **2017**, 671-735		
263	Big Tumorigenesis Mechanisms in Systems Cancer Biology via Big Database Mining and Network Modeling **2017**, 431-526		0
262	Big Mechanisms of Information Flow in Cellular Systems in Response to Environmental Stress Signals via System Identification and Data Mining **2017**, 155-248		
261	Big Drug Design Mechanisms via Systems Biology and Big Database Mining **2017**, 737-845		1
260	Stochastic noncooperative and cooperative evolutionary game strategies of a population of biological networks under natural selection. *BioSystems*, **2017**, 162, 90-118	1.9	7
259	Detectability, observability and Lyapunov-type theorems of linear discrete time-varying stochastic systems with multiplicative noise. *International Journal of Control*, **2017**, 90, 2490-2507	1.5	16

258	Introduction to Big Mechanisms in Systems Biology **2017**, 1-8		0
257	Big Regeneration Mechanisms via Systems Biology and Big Database Mining Methods **2017**, 373-430		
256	Investigation of the Cross-talk Mechanism in Caco-2 Cells during Infection through Genetic-and-Epigenetic Interspecies Networks: Big Data Mining and Genome-Wide Identification. *Frontiers in Immunology*, **2017**, 8, 901	8.4	3
255	Stochastic H2/H∞ Control **2017**,		41
254	Big Evolutionary Mechanisms of Network Robustness and Signaling Transductivity in Aging and Carcinogenic Process by System Modeling and Database Mining **2017**, 527-669		1
253	Multiobjective tracking control design of TS fuzzy systems: Fuzzy Pareto optimal approach. *Fuzzy Sets and Systems*, **2016**, 290, 39-55	3.7	26
252	Robust Fuzzy H_{∞} Estimator-Based Stabilization Design for Nonlinear Parabolic Partial Differential Systems With Different Boundary Conditions. *IEEE Transactions on Fuzzy Systems*, **2016**, 24, 208-222	8.3	11
251	Investigating core genetic-and-epigenetic cell cycle networks for stemness and carcinogenic mechanisms, and cancer drug design using big database mining and genome-wide next-generation sequencing data. *Cell Cycle*, **2016**, 15, 2593-2607	4.7	20
250	Constructing an integrated genetic and epigenetic cellular network for whole cellular mechanism using high-throughput next-generation sequencing data. *BMC Systems Biology*, **2016**, 10, 18	3.5	16
249	Novel Utilization of Terminators in the Design of Biologically Adjustable Synthetic Filters. *ACS Synthetic Biology*, **2016**, 5, 365-74	5.7	8
248	Engineering Bacteria to Search for Specific Concentrations of Molecules by a Systematic Synthetic Biology Design Method. *PLoS ONE*, **2016**, 11, e0152146	3.7	7
247	Investigating the mechanism of hepatocellular carcinoma progression by constructing genetic and epigenetic networks using NGS data identification and big database mining method. *Oncotarget*, **2016**, 7, 79453-79473	3.3	13
246	Investigating the specific core genetic-and-epigenetic networks of cellular mechanisms involved in human aging in peripheral blood mononuclear cells. *Oncotarget*, **2016**, 7, 8556-79	3.3	18
245	A New Era for Cancer Target Therapies: Applying Systems Biology and Computer-Aided Drug Design to Cancer Therapies. *Current Pharmaceutical Biotechnology*, **2016**, 17, 1246-1267	2.6	5
244	Network Biomarkers of Bladder Cancer Based on a Genome-Wide Genetic and Epigenetic Network Derived from Next-Generation Sequencing Data. *Disease Markers*, **2016**, 2016, 4149608	3.2	10
243	Genetic-and-Epigenetic Interspecies Networks for Cross-Talk Mechanisms in Human Macrophages and Dendritic Cells during MTB Infection. *Frontiers in Cellular and Infection Microbiology*, **2016**, 6, 124	5.9	8
242	System Entropy Measurement of Stochastic Partial Differential Systems. *Entropy*, **2016**, 18, 99	2.8	3
241	Temporal Genetic Modifications after Controlled Cortical Impact--Understanding Traumatic Brain Injury through a Systematic Network Approach. *International Journal of Molecular Sciences*, **2016**, 17, 216	6.3	5

240	Key Immune Events of the Pathomechanisms of Early Cardioembolic Stroke: Multi-Database Mining and Systems Biology Approach. *International Journal of Molecular Sciences*, **2016**, 17, 305	6.3	2
239	A Systems Biology Approach to the Coordination of Defensive and Offensive Molecular Mechanisms in the Innate and Adaptive Host-Pathogen Interaction Networks. *PLoS ONE*, **2016**, 11, e0149303	3.7	6
238	Systematic Design of a Metal Ion Biosensor: A Multi-Objective Optimization Approach. *PLoS ONE*, **2016**, 11, e0165911	3.7	3
237	Estimating Sensorimotor Mapping From Stimuli to Behaviors to Infer C. elegans Movements by Neural Transmission Ability Through Connectome Databases. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 2229-2241	10.3	2
236	Low Design-Cost Fuzzy Controllers for Robust Stabilization of Nonlinear Partial Differential Systems. *IEEE Transactions on Fuzzy Systems*, **2016**, 24, 1378-1394	8.3	3
235	Mixed H 2/H ⬚control for linear infinite-dimensional systems. *International Journal of Control, Automation and Systems*, **2016**, 14, 128-139	2.9	2
234	Robust sensorimotor control of human arm model under state-dependent noises, control-dependent noises and additive noises. *Neurocomputing*, **2015**, 167, 61-75	5.4	4
233	Robust Scheduling Filter Design for a Class of Nonlinear Stochastic Poisson Signal Systems. *IEEE Transactions on Signal Processing*, **2015**, 63, 6245-6257	4.8	19
232	Systematic Biological Filter Design with a Desired I/O Filtering Response Based on Promoter-RBS Libraries. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2015**, 12, 712-25	3	2
231	Infinite horizon . *Fuzzy Sets and Systems*, **2015**, 273, 105-123	3.7	16
230	Using Nonlinear Stochastic Evolutionary Game Strategy to Model an Evolutionary Biological Network of Organ Carcinogenesis Under a Natural Selection Scheme. *Evolutionary Bioinformatics*, **2015**, 11, 155-78	1.9	11
229	Identification of network-based biomarkers of cardioembolic stroke using a systems biology approach with time series data. *BMC Systems Biology*, **2015**, 9 Suppl 6, S4	3.5	11
228	Multiple target drug cocktail design for attacking the core network markers of four cancers using ligand-based and structure-based virtual screening methods. *BMC Medical Genomics*, **2015**, 8 Suppl 4, S4	3.7	11
227	On the Calculation of System Entropy in Nonlinear Stochastic Biological Networks. *Entropy*, **2015**, 17, 6801-6833	2.8	11
226	Applying NGS Data to Find Evolutionary Network Biomarkers from the Early and Late Stages of Hepatocellular Carcinoma. *BioMed Research International*, **2015**, 2015, 391475	3	6
225	Measuring information flow in cellular networks by the systems biology method through microarray data. *Frontiers in Plant Science*, **2015**, 6, 390	6.2	8
224	Dynamic network-based relevance score reveals essential proteins and functional modules in directed differentiation. *Stem Cells International*, **2015**, 2015, 792843	5	1
223	. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 387-399	8.3	27

222	Some Remarks on General Nonlinear Stochastic H_{∞} Control With State, Control, and Disturbance-Dependent Noise. *IEEE Transactions on Automatic Control*, **2014**, 59, 237-242	5.9	30
221	Robust control design for nonlinear stochastic partial differential systems with Poisson noise: Fuzzy implementation. *Fuzzy Sets and Systems*, **2014**, 254, 83-105	3.7	13
220	Robust stabilization design of nonlinear stochastic partial differential systems: Fuzzy approach. *Fuzzy Sets and Systems*, **2014**, 248, 61-85	3.7	27
219	Robustness analysis on interspecies interaction network for iron and glucose competition between Candida albicans and zebrafish during infection. *BMC Systems Biology*, **2014**, 8 Suppl 5, S6	3.5	3
218	Systematic approach to Escherichia coli cell population control using a genetic lysis circuit. *BMC Systems Biology*, **2014**, 8 Suppl 5, S7	3.5	2
217	Multiobjective H2/H∞ control for nonlinear stochastic jump diffusion systems **2014**,		1
216	Essential functional modules for pathogenic and defensive mechanisms in Candida albicans infections. *BioMed Research International*, **2014**, 2014, 136130	3	5
215	Evolution of network biomarkers from early to late stage bladder cancer samples. *BioMed Research International*, **2014**, 2014, 159078	3	15
214	Core and specific network markers of carcinogenesis from multiple cancer samples. *Journal of Theoretical Biology*, **2014**, 362, 17-34	2.3	16
213	The stochastic evolutionary game for a population of biological networks under natural selection. *Evolutionary Bioinformatics*, **2014**, 10, 17-38	1.9	15
212	On the crucial cerebellar wound healing-related pathways and their cross-talks after traumatic brain injury in Danio rerio. *PLoS ONE*, **2014**, 9, e97902	3.7	16
211	A systems biology approach to study systemic inflammation. *Methods in Molecular Biology*, **2014**, 1184, 403-16	1.4	1
210	On the increase in network robustness and decrease in network response ability during the aging process: a systems biology approach via microarray data. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2013**, 10, 468-80	3	14
209	Interspecies protein-protein interaction network construction for characterization of host-pathogen interactions: a Candida albicans-zebrafish interaction study. *BMC Systems Biology*, **2013**, 7, 79	3.5	26
208	Robust Stabilization Design for Stochastic Partial Differential Systems Under Spatio-temporal Disturbances and Sensor Measurement Noises. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2013**, 60, 1013-1026	3.9	9
207	A Multiobjective Approach for Source Estimation in Fuzzy Networked Systems. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2013**, 60, 1890-1900	3.9	14
206	Robust H∞ Synchronization of Coupled Partial Differential Systems With Spatial Coupling Delay. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2013**, 60, 451-455	3.5	34
205	Robust stabilization design for nonlinear stochastic system with Poisson noise via fuzzy interpolation method. *Fuzzy Sets and Systems*, **2013**, 217, 41-61	3.7	22

204	Identification of infection- and defense-related genes via a dynamic host-pathogen interaction network using a Candida albicans-zebrafish infection model. *Journal of Innate Immunity*, **2013**, 5, 137-52	6.9	17
203	A Unifying Mathematical Framework for Genetic Robustness, Environmental Robustness, Network Robustness and their Trade-offs on Phenotype Robustness in Biological Networks. Part III: Synthetic Gene Networks in Synthetic Biology. *Evolutionary Bioinformatics*, **2013**, 9, 87-109	1.9	8
202	Systems biology as an integrated platform for bioinformatics, systems synthetic biology, and systems metabolic engineering. *Cells*, **2013**, 2, 635-88	7.9	18
201	A Unifying Mathematical Framework for Genetic Robustness, Environmental Robustness, Network Robustness and their Trade-off on Phenotype Robustness in Biological Networks Part I: Gene Regulatory Networks in Systems and Evolutionary Biology. *Evolutionary Bioinformatics*, **2013**, 9, 43-68	1.9	7
200	A Unifying Mathematical Framework for Genetic Robustness, Environmental Robustness, Network Robustness and their Tradeoff on Phenotype Robustness in Biological Networks Part II: Ecological Networks. *Evolutionary Bioinformatics*, **2013**, 9, 69-85	1.9	10
199	Systematic design methodology for robust genetic transistors based on I/O specifications via promoter-RBS libraries. *BMC Systems Biology*, **2013**, 7, 109	3.5	5
198	New measurement methods of network robustness and response ability via microarray data. *PLoS ONE*, **2013**, 8, e55230	3.7	12
197	. *IEEE Transactions on Vehicular Technology*, **2012**, 61, 2145-2157	6.8	4
196	${\cal H}$-Representation and Applications to Generalized Lyapunov Equations and Linear Stochastic Systems. *IEEE Transactions on Automatic Control*, **2012**, 57, 3009-3022	5.9	60
195	Robust Filter for Linear Stochastic Partial Differential Systems via a Set of Sensor Measurements. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2012**, 59, 1251-1264	3.9	10
194	Robust synchronization control scheme of a population of nonlinear stochastic synthetic genetic oscillators under intrinsic and extrinsic molecular noise via quorum sensing. *BMC Systems Biology*, **2012**, 6, 136	3.5	16
193	Robust Filter for Nonlinear Stochastic Partial Differential Systems in Sensor Signal Processing: Fuzzy Approach. *IEEE Transactions on Fuzzy Systems*, **2012**, 20, 957-970	8.3	26
192	Robust Relative Location Estimation in Wireless Sensor Networks with Inexact Position Problems. *IEEE Transactions on Mobile Computing*, **2012**, 11, 935-946	4.6	31
191	Prediction of phenotype-associated genes via a cellular network approach: a Candida albicans infection case study. *PLoS ONE*, **2012**, 7, e35339	3.7	8
190	On the Information Transmission Ability of Nonlinear Stochastic Dynamic Networks. *Entropy*, **2012**, 14, 1652-1670	2.8	4
189	On the calculation of signal transduction ability of signaling transduction pathways in intracellular communication: systematic approach. *Bioinformatics*, **2012**, 28, 1604-11	7.2	8
188	Robust$H2/H$Filter Design for a Class of Nonlinear Stochastic Systems with State-Dependent Noise. *Mathematical Problems in Engineering*, **2012**, 2012, 1-16	1.1	3
187	Constructing gene regulatory networks for long term photosynthetic light acclimation in Arabidopsis thaliana. *BMC Bioinformatics*, **2011**, 12, 335	3.6	15

186	Multisource Prediction Under Nonlinear Dynamics in WSNs Using a Robust Fuzzy Approach. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2011**, 58, 137-149	3.9	18
185	Robust model matching design methodology for a stochastic synthetic gene network. *Mathematical Biosciences*, **2011**, 230, 23-36	3.9	10
184	Robust synchronization analysis in nonlinear stochastic cellular networks with time-varying delays, intracellular perturbations and intercellular noise. *Mathematical Biosciences*, **2011**, 232, 116-34	3.9	2
183	Multiobjective H2/H∞ synthetic gene network design based on promoter libraries. *Mathematical Biosciences*, **2011**, 233, 111-25	3.9	15
182	Study on general stability and stabilizability of linear discrete-time stochastic systems. *Asian Journal of Control*, **2011**, 13, 977-987	1.7	16
181	Robust H∞ observer-based tracking control of stochastic immune systems under environmental disturbances and measurement noises. *Asian Journal of Control*, **2011**, 13, 667-690	1.7	12
180	A network-based biomarker approach for molecular investigation and diagnosis of lung cancer. *BMC Medical Genomics*, **2011**, 4, 2	3.7	64
179	Robust H_{∞} Synchronization Design of Nonlinear Coupled Network via Fuzzy Interpolation Method. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2011**, 58, 349-362	3.9	45
178	Some properties of generalized Lyapunov equations **2011**,		2
177	On the Interplay between the Evolvability and Network Robustness in an Evolutionary Biological Network: A Systems Biology Approach. *Evolutionary Bioinformatics*, **2011**, 7, 201-33	1.9	13
176	Robust design of biological circuits: evolutionary systems biology approach. *Journal of Biomedicine and Biotechnology*, **2011**, 2011, 304236		20
175	Robust synthetic gene network design via library-based search method. *Bioinformatics*, **2011**, 27, 2700-6	7.2	18
174	Robust Control of Immune Systems Under Noises: Stochastic Game Approach **2011**, 601-627		
173	GA-based Design Algorithms for the Robust Synthetic Genetic Oscillators with Prescribed Amplitude, Period and Phase. *Gene Regulation and Systems Biology*, **2010**, 4, 35-52	2	21
172	Robust observer-based tracking control of hodgkin-huxley neuron systems under environmental disturbances. *Neural Computation*, **2010**, 22, 3143-78	2.9	6
171	Robust Optimal Reference-Tracking Design Method for Stochastic Synthetic Biology Systems: T-S Fuzzy Approach. *IEEE Transactions on Fuzzy Systems*, **2010**, 18, 1144-1159	8.3	51
170	On the noise-enhancing ability of stochastic Hodgkin-Huxley neuron systems. *Neural Computation*, **2010**, 22, 1737-63	2.9	11
169	On the Interplay between Entropy and Robustness of Gene Regulatory Networks. *Entropy*, **2010**, 12, 1071-1101	2.8	29

168   Identifying functional mechanisms of gene and protein regulatory networks in response to a broader range of environmental stresses. *Comparative and Functional Genomics*, **2010**, 408705   12

167   A Systems Biology Approach to Construct a Cancer-Perturbed Protein–Protein Interaction Network for Apoptosis by Means of Microarray and Database Mining **2010**, 231-251

166   Mobile Location Estimation Using Fuzzy-Based IMM and Data Fusion. *IEEE Transactions on Mobile Computing*, **2010**, 9, 1424-1436   4.6   45

165   A Fuzzy Approach for Robust Reference-Tracking-Control Design of Nonlinear Distributed Parameter Time-Delayed Systems and Its Application. *IEEE Transactions on Fuzzy Systems*, **2010**, 18, 1041-1057   8.3   64

164   Dynamic cross-talk analysis among TNF-R, TLR-4 and IL-1R signalings in TNFalpha-induced inflammatory responses. *BMC Medical Genomics*, **2010**, 3, 19   3.7   28

163   Construction of Cancer-Perturbed Protein–Protein Interaction Network of Apoptosis for Drug Target Discovery. *Systems Biology*, **2010**, 589-610   1

162   Robust static output feedback fuzzy control design for a class of nonlinear stochastic systems **2010**,   2

161   The applications of stochastic regulation H∞ control to HIV therapy **2010**,   1

160   Robust MC-CDMA Channel Tracking for Fast Time-Varying Multipath Fading Channel. *IEEE Transactions on Vehicular Technology*, **2010**, 59, 4658-4664   6.8   6

159   Global screening of potential Candida albicans biofilm-related transcription factors via network comparison. *BMC Bioinformatics*, **2010**, 11, 53   3.6   24

158   Integrated cellular network of transcription regulations and protein-protein interactions. *BMC Systems Biology*, **2010**, 4, 20   3.5   47

157   Mobile location estimation in urban areas using mixed Manhattan/Euclidean norm and convex optimization. *IEEE Transactions on Wireless Communications*, **2009**, 8, 414-423   9.6   23

156   Robust synthetic biology design: stochastic game theory approach. *Bioinformatics*, **2009**, 25, 1822-30   7.2   35

155   A systematic design method for robust synthetic biology to satisfy design specifications. *BMC Systems Biology*, **2009**, 3, 66   3.5   29

154   Mobile Location Estimator in a Rough Wireless Environment Using Extended Kalman-Based IMM and Data Fusion. *IEEE Transactions on Vehicular Technology*, **2009**, 58, 1157-1169   6.8   88

153   Cross-talks of sensory transcription networks in response to various environmental stresses. *Interdisciplinary Sciences, Computational Life Sciences*, **2009**, 1, 46-54   3.5   9

152   Robust fuzzy observer-based fuzzy control design for nonlinear systems with persistent bounded disturbances: A novel decoupled approach. *Fuzzy Sets and Systems*, **2009**, 160, 2824-2843   3.7   33

151   Fuzzy Solutions to Partial Differential Equations: Adaptive Approach. *IEEE Transactions on Fuzzy Systems*, **2009**, 17, 116-127   8.3   44

150	Fuzzy State-Space Modeling and Robust Observer-Based Control Design for Nonlinear Partial Differential Systems. *IEEE Transactions on Fuzzy Systems*, **2009**, 17, 1025-1043	8.3	85
149	On the estimation of robustness and filtering ability of dynamic biochemical networks under process delays, internal parametric perturbations and external disturbances. *Mathematical Biosciences*, **2009**, 222, 92-108	3.9	9
148	Robust Fuzzy Observer-Based Fuzzy Control Design for Nonlinear Discrete-Time Systems With Persistent Bounded Disturbances. *IEEE Transactions on Fuzzy Systems*, **2009**, 17, 711-723	8.3	45
147	Robust H_{2}/H_{∞} Global Linearization Filter Design for Nonlinear Stochastic Systems. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2009**, 56, 1441-1454	3.9	50
146	Robust reference tracking control design for nonlinear distributed parameter systems: Fuzzy approach **2009**,		1
145	Stochastic Spatio-Temporal Dynamic Model for Gene/Protein Interaction Network in Early Drosophila Development. *Gene Regulation and Systems Biology*, **2009**, 3, 117762500900300	2	0
144	A systematic molecular circuit design method for gene networks under biochemical time delays and molecular noises. *BMC Systems Biology*, **2008**, 2, 103	3.5	19
143	Construction of a cancer-perturbed protein-protein interaction network for discovery of apoptosis drug targets. *BMC Systems Biology*, **2008**, 2, 56	3.5	69
142	Generalized Lyapunov Equation Approach to State-Dependent Stochastic Stabilization/Detectability Criterion. *IEEE Transactions on Automatic Control*, **2008**, 53, 1630-1642	5.9	109
141	Robust filtering circuit design for stochastic gene networks under intrinsic and extrinsic molecular noises. *Mathematical Biosciences*, **2008**, 211, 342-55	3.9	33
140	Robust H infinity-stabilization design in gene networks under stochastic molecular noises: fuzzy-interpolation approach. *IEEE Transactions on Systems, Man, and Cybernetics*, **2008**, 38, 25-42		46
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