Ian Petersen

List of Publications by Year in Descending Order

481 papers	**11,262** citations	**47** h-index	**95** g-index
565 ext. papers	**14,466** ext. citations	**3.5** avg, IF	**6.79** L-index

#	Paper	IF	Citations
481	**Global Convergence and Asymptotic Optimality of the Heavy Ball Method for a Class of Nonconvex Optimization Problems 2022**, 6, 2449-2454		
480	Guaranteed cost coherent control for quantum systems with non-quadratic perturbations in the system Hamiltonian. *Automatica*, **2022**, 139, 110201	5.7	1
479	Fault-tolerant H control for optical parametric oscillators with pumping fluctuations. *Automatica*, **2022**, 140, 110236	5.7	1
478	Moment Dynamics and Observer Design for a Class of Quasilinear Quantum Stochastic Systems. *SIAM Journal on Control and Optimization*, **2022**, 60, 1223-1249	1.9	0
477	Distributed Formation Control Using Fuzzy Self-Tuning of Strictly Negative Imaginary Consensus Controllers in Aerial Robotics. *IEEE/ASME Transactions on Mechatronics*, **2021**, 26, 2306-2315	5.5	6
476	Two-step feedback preparation of entanglement for qubit systems with time delay. *Automatica*, **2021**, 125, 109174	5.7	2
475	. *IEEE Transactions on Information Theory*, **2021**, 67, 2293-2307	2.8	2
474	Hybrid adaptive negative imaginary- neural-fuzzy control with model identification for a quadrotor. *IFAC Journal of Systems and Control*, **2021**, 16, 100156	0.9	3
473	On the capability of a class of quantum sensors. *Automatica*, **2021**, 129, 109612	5.7	2
472	Fuzzy Self-Tuning of Strictly Negative-Imaginary Controllers for Trajectory Tracking of a Quadcopter Unmanned Aerial Vehicle. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 5036-5045	8.9	10
471	Multi-point Gaussian States, Quadratic Exponential Cost Functionals, and Large Deviations Estimates for Linear Quantum Stochastic Systems. *Applied Mathematics and Optimization*, **2021**, 83, 83-137	1.5	6
470	Design of a Discrete-Time Fault-Tolerant Quantum Filter and Fault Detector. *IEEE Transactions on Cybernetics*, **2021**, 51, 889-899	10.2	7
469	Multi-vehicle formation control and obstacle avoidance using negative-imaginary systems theory. *IFAC Journal of Systems and Control*, **2021**, 15, 100117	0.9	1
468	Generation of accessible sets in the dynamical modelling of quantum network systems. *IEEE Transactions on Control of Network Systems*, **2021**, 1-1	4	
467	Fault-tolerant Coherent H_infinity Control for Linear Quantum Systems. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	2
466	A Homotopy Approach to Coherent Quantum LQG Control Synthesis Using Discounted Performance Criteria. *IFAC-PapersOnLine*, **2021**, 54, 166-171	0.7	
465	Robust Output Feedback Consensus for Networked Identical Nonlinear Negative-Imaginary Systems. *IFAC-PapersOnLine*, **2021**, 54, 239-244	0.7	2

464	Robust Cooperative Control of Networked Train Platoons: a Negative-Imaginary Systems' Perspective. *IEEE Transactions on Control of Network Systems*, **2021**, 1-1	4	1
463	*. IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	0
462	Linear open quantum systems with passive Hamiltonians and a single local dissipative process. *Automatica*, **2021**, 125, 109477	5.7	0
461	Inverse-system method for identification of damping-rate functions in non-Markovian quantum systems. *Physical Review A*, **2020**, 102,	2.6	3
460	Strictly negative imaginary state feedback control with a prescribed degree of stability. *Automatica*, **2020**, 119, 109079	5.7	2
459	Measurement-induced Boolean dynamics and controllability for closed quantum networks. *Automatica*, **2020**, 114, 108816	5.7	1
458	Quantum tomography by regularized linear regressions. *Automatica*, **2020**, 114, 108837	5.7	1
457	Quantum Hamiltonian Identifiability via a Similarity Transformation Approach and Beyond. *IEEE Transactions on Automatic Control*, **2020**, 65, 4632-4647	5.9	13
456	Robust Output Feedback Consensus for Networked Heterogeneous Nonlinear Negative-Imaginary Systems **2020**,		1
455	Optimal Quantum Realization of a Classical Linear System. *IFAC-PapersOnLine*, **2020**, 53, 257-262	0.7	
454	Static and dynamic coherent robust control for a class of uncertain quantum systems. *Systems and Control Letters*, **2020**, 141, 104702	2.4	4
453	Coherent H_∞ control for Markovian jump linear quantum systems. *IFAC-PapersOnLine*, **2020**, 53, 269-274	0.7	1
452	A Girsanov Type Representation of Quadratic-Exponential Cost Functionals for Linear Quantum Stochastic Systems* **2020**,		3
451	Measurement-based Feedback Control of Linear Quantum Stochastic Systems with Quadratic-Exponential Criteria. *IFAC-PapersOnLine*, **2020**, 53, 304-309	0.7	1
450	Frequency-Domain Computation of Quadratic-Exponential Cost Functionals for Linear Quantum Stochastic Systems. *IFAC-PapersOnLine*, **2020**, 53, 293-298	0.7	3
449	Positive Real Properties and Physical Realizability Conditions For a Class of Linear Quantum Systems. *IFAC-PapersOnLine*, **2020**, 53, 281-286	0.7	0
448	One Port Impedance Quantization For a Class of Annihilation Operator Linear Quantum Systems. *IFAC-PapersOnLine*, **2020**, 53, 287-292	0.7	0
447	Capability comparison of quantum sensors of single or two qubits for a spin chain system. *IFAC-PapersOnLine*, **2020**, 53, 263-268	0.7	1

446	Switching formation strategy with the directed dynamic topology for collision avoidance of a multi-robot system in uncertain environments. *IET Control Theory and Applications*, **2020**, 14, 2948-2959	2.5	6
445	Extending the piezoelectric transducer bandwidth of an optical interferometer by suppressing resonance using a high dimensional IIR filter implemented on an FPGA. *Review of Scientific Instruments*, **2020**, 91, 055102	1.7	1
444	Modeling for Non-Markovian Quantum Systems. *IEEE Transactions on Control Systems Technology*, **2020**, 28, 2564-2571	4.8	4
443	Convergence to pure steady states of linear quantum systems. *Journal of Physics A: Mathematical and Theoretical*, **2020**, 53, 055301	2	
442	Structural decomposition for quantum two-level systems. *Automatica*, **2020**, 113, 108751	5.7	0
441	Design of a Quantum Projection Filter. *IEEE Transactions on Automatic Control*, **2020**, 65, 3693-3700	5.9	2
440	An improved quantum projection filter. *Automatica*, **2020**, 112, 108716	5.7	4
439	Switching time-invariant formation control of a collaborative multi-agent system using negative imaginary systems theory. *Control Engineering Practice*, **2020**, 95, 104245	3.9	24
438	Adaptive Second-Order Strictly Negative Imaginary Controllers Based on the Interval Type-2 Fuzzy Self-Tuning Systems for a Hovering Quadrotor With Uncertainties. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 11-20	5.5	19
437	Structural Characterization of Linear Quantum Systems With Application to Back-Action Evading Measurement. *IEEE Transactions on Automatic Control*, **2020**, 65, 3157-3163	5.9	1
436	Filter-Based Feedback Control for a Class of Markovian Open Quantum Systems **2019**, 3, 565-570		4
435	Parametric randomization, complex symplectic factorizations, and quadratic-exponential functionals for Gaussian quantum states. *Infinite Dimensional Analysis, Quantum Probability and Related Topics*, **2019**, 22, 1950020	0.6	5
434	Feedback preparation of Bell states for two-qubit systems with time delay **2019**,		3
433	A Karhunen-Loeve Expansion for One-mode Open Quantum Harmonic Oscillators Using the Eigenbasis of the Two-point Commutator Kernel **2019**,		3
432	Effects of Parametric Uncertainties in Cascaded Open Quantum Harmonic Oscillators and Robust Generation of Gaussian Invariant States. *SIAM Journal on Control and Optimization*, **2019**, 57, 1597-1628	1.9	0
431	A Quantum Karhunen-Loeve Expansion and Quadratic-Exponential Functionals for Linear Quantum Stochastic Systems* **2019**,		4
430	. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 2315-2329	4.8	9
429	An exponential quantum projection filter for open quantum systems. *Automatica*, **2019**, 99, 59-68	5.7	10

428	Identification of Non-Markovian Environments for Spin Chains. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 2574-2580	4.8	7
427	Quantum gate identification: Error analysis, numerical results and optical experiment. *Automatica*, **2019**, 101, 269-279	5.7	14
426	Filtering for a Class of Quantum Systems With Classical Stochastic Disturbances. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 2774-2780	4.8	2
425	Synchronization Conditions for a Multirate Kuramoto Network With an Arbitrary Topology and Nonidentical Oscillators. *IEEE Transactions on Cybernetics*, **2019**, 49, 2242-2254	10.2	7
424	Robust stability conditions for feedback interconnections of distributed-parameter negative imaginary systems. *Automatica*, **2018**, 90, 310-316	5.7	4
423	A Survey of Methods Used to Control Piezoelectric Tube Scanners in High-Speed AFM Imaging. *Asian Journal of Control*, **2018**, 20, 1379-1399	1.7	28
422	Bilinear Hamiltonian interactions between linear quantum systems via feedback. *Automatica*, **2018**, 89, 103-110	5.7	1
421	. *IEEE Transactions on Aerospace and Electronic Systems*, **2018**, 54, 2397-2410	3.7	41
420	The Kalman Decomposition for Linear Quantum Systems. *IEEE Transactions on Automatic Control*, **2018**, 63, 331-346	5.9	17
419	Adaptive Target Scheme for Learning Control of Quantum Systems. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 1259-1271	4.8	1
418	A Modified Frequency Domain Condition for the Physical Realizability of Linear Quantum Stochastic Systems. *IEEE Transactions on Automatic Control*, **2018**, 63, 277-282	5.9	3
417	A derivation of moment evolution equations for linear open quantum systems **2018**,		2
416	A Quantum Hamiltonian Identification Algorithm: Computational Complexity and Error Analysis. *IEEE Transactions on Automatic Control*, **2018**, 63, 1388-1403	5.9	41
415	On physical realizability of nonlinear quantum stochastic differential equations. *Automatica*, **2018**, 95, 254-265	5.7	1
414	Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 1-13	7.3	21
413	A Novel Application of Minimax LQG Control Technique for High-speed Spiral Imaging. *Asian Journal of Control*, **2018**, 20, 1400-1412	1.7	4
412	Negative Imaginary H_{2} Controller Synthesis Using Nonlinear Optimization **2018**,		1
411	Controller Synthesis to Render a Closed Loop Transfer Function Strongly Strictly Negative Imaginary **2018**,		3

410	Extending Negative Imaginary Systems Theory to Nonlinear Systems **2018**,		6
409	Dissipative Linear Stochastic Hamiltonian Systems **2018**,		1
408	Networked Quantum Systems. *Systems and Control: Foundations and Applications*, **2018**, 583-618	0.3	
407	Cascade and locally dissipative realizations of linear quantum systems for pure Gaussian state covariance assignment. *Automatica*, **2018**, 90, 263-270	5.7	5
406	Quantum Filtering for a Qubit System Subject to Classical Disturbances **2018**,		1
405	A Novel Control Approach for High-Precision Positioning of a Piezoelectric Tube Scanner. *IEEE Transactions on Automation Science and Engineering*, **2017**, 14, 325-336	4.9	21
404	Quantum Noises, Physical Realizability and Coherent Quantum Feedback Control. *IEEE Transactions on Automatic Control*, **2017**, 62, 998-1003	5.9	15
403	Performance Analysis and Coherent Guaranteed Cost Control for Uncertain Quantum Systems Using Small Gain and Popov Methods. *IEEE Transactions on Automatic Control*, **2017**, 62, 1524-1529	5.9	15
402	Complete elimination of nonlinear light-matter interactions with broadband ultrafast laser pulses. *Physical Review A*, **2017**, 95,	2.6	9
401	Rapid Lyapunov control of finite-dimensional quantum systems. *Automatica*, **2017**, 81, 164-175	5.7	39
400	Coherent robust H∞control of linear quantum systems with uncertainties in the Hamiltonian and coupling operators. *Automatica*, **2017**, 81, 8-21	5.7	15
399	A quantum extended Kalman filter. *Journal of Physics A: Mathematical and Theoretical*, **2017**, 50, 225301	2	12
398	Dark Modes of Quantum Linear Systems. *IEEE Transactions on Automatic Control*, **2017**, 62, 4180-4186	5.9	7
397	Linear quantum systems with diagonal passive Hamiltonian and a single dissipative channel. *Systems and Control Letters*, **2017**, 99, 64-71	2.4	8
396	Robust control of photoassociation of slow O + H collision. *Chemical Physics*, **2017**, 483-484, 149-155	2.3	1
395	Identifying Strong-Field Effects in Indirect Photofragmentation Reactions. *Journal of Physical Chemistry Letters*, **2017**, 8, 1-6	6.4	37
394	A numerical approach to optimal coherent quantum LQG controller design using gradient descent. *Automatica*, **2017**, 85, 314-326	5.7	5
393	Quantum linear coherent controller synthesis: A linear fractional representation approach. *Automatica*, **2017**, 85, 264-271	5.7	1

#	Title		
392	A riccati equation negative imaginary lemma for singular negative imaginary systems **2017**,		1
391	A direct coupling coherent quantum observer for an oscillatory quantum plant **2017**,		2
390	Conditions for preserving negative imaginary properties in feedback interconnections and an application to multi-agent systems **2017**,		3
389	Robust guaranteed-cost adaptive quantum phase estimation. *Physical Review A*, **2017**, 95,	2.6	1
388	Finite horizon H∞ control for a class of sampled-data linear quantum systems. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 2292-2302	3.6	4
387	Coherent-classical estimation for linear quantum systems. *Automatica*, **2017**, 82, 109-117	5.7	4
386	Entropy Evolution in Consensus Networks. *Scientific Reports*, **2017**, 7, 1520	4.9	1
385	Quantum Popov robust stability analysis of an optical cavity containing a saturated Kerr medium. *Quantum Science and Technology*, **2017**, 2, 034009	5.5	3
384	Time averaged consensus in a direct coupled coherent quantum observer network. *Control Theory and Technology*, **2017**, 15, 163-176	1	2
383	Linear Quantum System Transfer Function Realization Using Static Networks for Input/Output Processing and Feedback. *SIAM Journal on Control and Optimization*, **2017**, 55, 3349-3369	1.9	1
382	Consensus of Quantum Networks With Directed Interactions: Fixed and Switching Structures. *IEEE Transactions on Automatic Control*, **2017**, 62, 2014-2019	5.9	4
381	Feedback Tracking Control of Non-Markovian Quantum Systems. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 1552-1563	4.8	12
380	Nonlinear robust state feedback control system design for nonlinear uncertain systems. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 2234-2252	3.6	3
379	A Survey of Riccati Equation Results in Negative Imaginary Systems Theory and Quantum Control Theory. *IFAC-PapersOnLine*, **2017**, 50, 9561-9566	0.7	1
378	H∞ Filtering For An Optical Cavity System Disturbed By Lorentzian Quantum Noise. *IFAC-PapersOnLine*, **2017**, 50, 13009-13013	0.7	
377	A Direct Coupling Coherent Quantum Observer for a Qubit, including Observer Measurements. *IFAC-PapersOnLine*, **2017**, 50, 4968-4972	0.7	1
376	Lyapunov-based Stability of Feedback Interconnections of Negative Imaginary Systems. *IFAC-PapersOnLine*, **2017**, 50, 3424-3428	0.7	3
375	Formation control of multi-UAVs using negative-imaginary systems theory **2017**,		9

374	The Kalman decomposition for Linear Quantum Stochastic Systems **2017**,		2
373	Design and application of a data driven controller using the small-gain constraint for positioning control of a nano-positioner **2017**,		1
372	An approximate quantum Hamiltonian identification algorithm using a Taylor expansion of the matrix exponential function **2017**,		1
371	Implementation of a distributed coherent quantum observer **2017**,		2
370	Error compensation in atomic force microscope scanned images. *Micro and Nano Letters*, **2016**, 11, 38-40	0.9	
369	Experimental Demonstration of Frequency Autolocking an Optical Cavity Using a Time-Varying Kalman Filter. *Physical Review Applied*, **2016**, 5,	4.3	2
368	Learning robust pulses for generating universal quantum gates. *Scientific Reports*, **2016**, 6, 36090	4.9	21
367	Sampled-data design for robust control of open two-level quantum systems with operator errors. *IET Control Theory and Applications*, **2016**, 10, 2415-2421	2.5	7
366	Fast machine-learning online optimization of ultra-cold-atom experiments. *Scientific Reports*, **2016**, 6, 25890	4.9	110
365	A reduced order direct coupling coherent quantum observer for a complex quantum plant **2016**,		2
364	Robust H∞estimation of uncertain linear quantum systems. *International Journal of Robust and Nonlinear Control*, **2016**, 26, 3723-3736	3.6	3
363	Partial fingerprint indexing: a combination of local and reconstructed global features. *Concurrency Computation Practice and Experience*, **2016**, 28, 2940-2957	1.4	8
362	Reduction of phase error between sinusoidal motions and vibration of a tube scanner during spiral scanning using an AFM. *International Journal of Control, Automation and Systems*, **2016**, 14, 505-513	2.9	6
361	Output feedback negative imaginary synthesis under structural constraints. *Automatica*, **2016**, 71, 222-228	5.7	30
360	Fault tolerant quantum filtering and fault detection for quantum systems. *Automatica*, **2016**, 71, 125-134	5.7	25
359	Realizing the dynamics of a non-Markovian quantum system by Markovian coupled oscillators: a Green's function-based root locus approach. *Quantum Information Processing*, **2016**, 15, 1001-1018	1.6	6
358	Physical Realizability and Preservation of Commutation and Anticommutation Relations for n-Level Quantum Systems. *SIAM Journal on Control and Optimization*, **2016**, 54, 632-661	1.9	7
357	The transfer function of generic linear quantum stochastic systems has a pure cascade realization. *Automatica*, **2016**, 69, 324-333	5.7	9

356	Linear Threshold Discrete-Time Recurrent Neural Networks: Stability and Globally Attractive Sets. *IEEE Transactions on Automatic Control*, **2016**, 61, 2650-2656	5.9	10
355	Quantum Linear Systems Theory. *Open Automation and Control Systems Journal*, **2016**, 8, 67-93		25
354	Fault tolerant filtering and fault detection for quantum systems driven by fields in single photon states. *Journal of Mathematical Physics*, **2016**, 57, 062201	1.2	6
353	Implementation of a direct coupling coherent quantum observer including observer measurements **2016**,		6
352	A robust continuous-time fixed-lag smoother for nonlinear uncertain systems. *International Journal of Robust and Nonlinear Control*, **2016**, 26, 345-364	3.6	1
351	Learning control of population transfer between subspaces of quantum systems using an adaptive target scheme **2016**,		2
350	On transfer function realizations for Linear Quantum Stochastic Systems **2016**,		2
349	An iterative algorithm for Hamiltonian identification of quantum systems **2016**,		2
348	Extended Kalman Filter for indoor and outdoor localization of a wheeled mobile robot **2016**,		2
347	Pure Gaussian quantum states from passive Hamiltonians and an active local dissipative process **2016**,		2
346	LQG feedback control of a class of linear non-Markovian quantum systems **2016**,		2
345	Directly coupled observers for quantum harmonic oscillators with discounted mean square cost functionals and penalized back-action* **2016**,		4
344	Controller synthesis for negative imaginary systems: a data driven approach. *IET Control Theory and Applications*, **2016**, 10, 1480-1486	2.5	8
343	Sampling-based robust control in synchronizing collision with shaped laser pulses: an application in charge transfer for H+ + D →H + D+. *RSC Advances*, **2016**, 6, 92962-92969	3.7	3
342	Negative imaginary systems theory and applications. *Annual Reviews in Control*, **2016**, 42, 309-318	10.3	28
341	Coherent observers for linear quantum stochastic systems. *Automatica*, **2016**, 71, 264-271	5.7	7
340	Design and Implementation of an Optical Cavity Locking Controller Test Bed System. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 715-721	4.8	1
339	Multivariable Negative-Imaginary Controller Design for Damping and Cross Coupling Reduction of Nanopositioners: A Reference Model Matching Approach. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 3123-3134	5.5	21

338	Using Inverse Nonlinearities in Robust Output Feedback Guaranteed Cost Control of Nonlinear Systems. *IEEE Transactions on Automatic Control*, **2015**, 60, 1139-1144	5.9	4
337	Witnessing the boundary between Markovian and non-Markovian quantum dynamics: a Green's function approach. *Quantum Information Processing*, **2015**, 14, 2657-2672	1.6	6
336	Robust manipulation of superconducting qubits in the presence of fluctuations. *Scientific Reports*, **2015**, 5, 7873	4.9	49
335	Sampling-Based Learning Control for Quantum Systems With Uncertainties. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 2155-2166	4.8	31
334	A MIMO Double Resonant Controller Design for Nanopositioners. *IEEE Nanotechnology Magazine*, **2015**, 14, 224-237	2.6	18
333	Negative Imaginary Lemmas for Descriptor Systems. *IEEE Transactions on Automatic Control*, **2015**, 1-1	5.9	4
332	Robust cooperative control of multiple heterogeneous Negative-Imaginary systems. *Automatica*, **2015**, 61, 64-72	5.7	40
331	Robust adaptive quantum phase estimation. *New Journal of Physics*, **2015**, 17, 063020	2.9	8
330	Time averaged consensus in a direct coupled coherent quantum observer network for a single qubit finite level quantum system **2015**,		4
329	Design of a robust controller for vibration control of a piezoelectric tube scanner **2015**,		2
328	Quantum filter for a class of non-Markovian quantum systems **2015**,		8
327	Covariance dynamics and entanglement in translation invariant linear quantum stochastic networks **2015**,		2
326	A gradient descent approach to optimal coherent quantum LQG controller design **2015**,		5
325	Quantum filter for a non-Markovian single qubit system **2015**,		4
324	State Distributions and Minimum Relative Entropy Noise Sequences in Uncertain Stochastic Systems: The Discrete-Time Case. *SIAM Journal on Control and Optimization*, **2015**, 53, 1107-1153	1.9	6
323	Improved 3D imaging performance of MPC **2015**,		1
322	Data driven controller synthesis for negative imaginary systems **2015**,		2
321	Coherent robust H∞ control of uncertain linear quantum stochastic systems **2015**,		2

320	Guaranteed cost dynamic coherent control for a class of uncertain linear quantum systems **2015**,		2
319	Time averaged consensus in a direct coupled distributed coherent quantum observer **2015**,		6
318	Learning control of charge transfer in molecular systems **2015**,		2
317	Reaching a Quantum Consensus: Master Equations That Generate Symmetrization and Synchronization. *IEEE Transactions on Automatic Control*, **2015**, 1-1	5.9	6
316	A unified framework for fault tolerant quantum filtering and fault detection **2015**,		2
315	Synthesis of Linear Coherent Quantum Control Systems Using A Differential Evolution Algorithm. *IEEE Transactions on Automatic Control*, **2015**, 60, 799-805	5.9	8
314	Robust Output Feedback Consensus for Networked Negative-Imaginary Systems. *IEEE Transactions on Automatic Control*, **2015**, 60, 2547-2552	5.9	45
313	A generalized negative imaginary lemma and Riccati-based static state-feedback negative imaginary synthesis. *Systems and Control Letters*, **2015**, 77, 63-68	2.4	31
312	Effect of Improved Tracking for Atomic Force Microscope on Piezo Nonlinear Behavior. *Asian Journal of Control*, **2015**, 17, 747-761	1.7	19
311	Advanced Vibration Control of Atomic Force Microscope Scanner. *Advances in Computational Intelligence and Robotics Book Series*, **2015**, 84-106	0.4	
310	Robust control of uncertain systems: Classical results and recent developments. *Automatica*, **2014**, 50, 1315-1335	5.7	129
309	High-speed spiral imaging technique for an atomic force microscope using a linear quadratic Gaussian controller. *Review of Scientific Instruments*, **2014**, 85, 033706	1.7	24
308	Optimal Lyapunov quantum control of two-level systems: Convergence and extended techniques. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2014**, 378, 1074-1080	2.3	20
307	Passive damping controller design for nanopositioners **2014**,		6
306	Minimax LQG controller design for nanopositioners **2014**,		5
305	Finite Horizon H^∞ Control for a Class of Linear Quantum Measurement Delayed Systems: A Dynamic Game Approach. *SIAM Journal on Control and Optimization*, **2014**, 52, 1787-1808	1.9	4
304	Tracking of Triangular Reference Signals Using LQG Controllers for Lateral Positioning of an AFM Scanner Stage. *IEEE/ASME Transactions on Mechatronics*, **2014**, 19, 1105-1114	5.5	39
303	Spectral Conditions for Negative Imaginary Systems With Applications to Nanopositioning. *IEEE/ASME Transactions on Mechatronics*, **2014**, 19, 895-903	5.5	44

302	Generalizing Negative Imaginary Systems Theory to Include Free Body Dynamics: Control of Highly Resonant Structures With Free Body Motion. *IEEE Transactions on Automatic Control*, **2014**, 59, 2692-2707	5.9	76
301	Analysis of Linear Quantum Optical Networks. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 8170-8175		1
300	Entanglement Generation in Uncertain Quantum Systems Using Sampling-based Learning Control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 5963-5968		
299	Approach for improved positioning of an atomic force microscope piezoelectric tube scanner. *Micro and Nano Letters*, **2014**, 9, 407-411	0.9	9
298	A Robust Output Feedback Consensus Protocol for Networked Negative-Imaginary Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 2878-2883		2
297	A direct coupling coherent quantum observer for a single qubit finite level quantum system **2014**,		4
296	Robust Control System Design for an Uncertain Nonlinear System Using Minimax LQG Design Method. *Asian Journal of Control*, **2014**, 16, 1029-1041	1.7	1
295	**2014**,		5
294	A benchmark 3D fingerprint database **2014**,		17
293	Resonant Controller Design for a Piezoelectric Tube Scanner: A Mixed Negative-Imaginary and Small-Gain Approach. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1899-1906	4.8	42
292	Frequency Locking of an Optical Cavity Using a Time-Varying Kalman Filtering Approach. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1143-1150	4.8	2
291	Performance analysis and coherent guaranteed cost control for uncertain quantum systems **2014**,		8
290	Consensus of quantum networks with continuous-time markovian dynamics **2014**,		5
289	Robust nonlinear state feedback controller design for synchronous machines **2014**,		1
288	Robust mean square stability of open quantum stochastic systems with Hamiltonian perturbations in a Weyl quantization form **2014**,		1
287	Preparation of pure Gaussian states via cascaded quantum systems **2014**,		5
286	A Popov approach to performance analysis and coherent guaranteed cost control for uncertain quantum systems **2014**,		4
285	Approximate bang-bang Lyapunov control for closed quantum systems **2014**,		2

284   A direct coupling coherent quantum observer **2014**,   13

283   Coherent-classical estimation versus purely-classical estimation for linear quantum systems **2014**,   4

282   Pulsed quantum cascade laser based hypertemporal real-time headspace measurements. *Optics Express*, **2014**, 22, 10519-34   3.3   5

281   . *IEEE Nanotechnology Magazine*, **2014**, 13, 541-550   2.6   50

280   Guaranteed non-quadratic performance for quantum systems with nonlinear uncertainties **2014**,   3

279   Sampling-based learning control of inhomogeneous quantum ensembles. *Physical Review A*, **2014**, 89,   2.6   60

278   Robust entanglement control between two atoms in a cavity using sampling-based learning control **2014**,   2

277   Robust H control via a stable decentralized nonlinear output feedback controller. *International Journal of Robust and Nonlinear Control*, **2014**, 24, 191-213   3.6   5

276   Decentralized state feedback robust H control using a differential evolution algorithm. *International Journal of Robust and Nonlinear Control*, **2014**, 24, 247-263   3.6   2

275   Discrete-time robust H control of a class of nonlinear uncertain systems. *International Journal of Robust and Nonlinear Control*, **2013**, 23, 1629-1641   3.6   4

274   A Kalman decomposition for possibly controllable uncertain linear systems. *Automatica*, **2013**, 49, 2474-2482   5.7   1

273   Sampled-Data Design for Robust Control of a Single Qubit. *IEEE Transactions on Automatic Control*, **2013**, 58, 2654-2659   5.9   25

272   Spiral scanning of atomic force microscope for faster imaging **2013**,   4

271   Robust decentralized stabilization of Markovian jump large-scale systems: A neighboring mode dependent control approach. *Automatica*, **2013**, 49, 3105-3111   5.7   19

270   Creep, Hysteresis, and Cross-Coupling Reduction in the High-Precision Positioning of the Piezoelectric Scanner Stage of an Atomic Force Microscope. *IEEE Nanotechnology Magazine*, **2013**, 12, 1125-1134   2.6   40

269   Stability analysis for interconnected systems with mixed negative-imaginary and passivity **2013**,   4

268   Singular Perturbation Approximations for a Class of Linear Quantum Systems. *IEEE Transactions on Automatic Control*, **2013**, 58, 193-198   5.9   7

267   A quasi-separation principle and Newton-like scheme for coherent quantum LQG control. *Systems and Control Letters*, **2013**, 62, 550-559   2.4   22

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