Yeng Chai Soh

List of Publications by Citations

326 papers	8,442 citations
50 h-index	79 g-index
369 ext. papers	10,433 ext. citations
4 avg, IF	6.44 L-index

#	Paper	IF	Citations
326	Reliable H∞ controller design for linear systems. *Automatica*, **2001**, 37, 717-725	5.7	341
325	. *IEEE Transactions on Automatic Control*, **1994**, 39, 1310-1314	5.9	334
324	Ensemble of online sequential extreme learning machine. *Neurocomputing*, **2009**, 72, 3391-3395	5.4	252
323	Fusion of WiFi, smartphone sensors and landmarks using the Kalman filter for indoor localization. *Sensors*, **2015**, 15, 715-32	3.8	249
322	Optimal linear estimation for systems with multiple packet dropouts. *Automatica*, **2008**, 44, 1333-1342	5.7	212
321	HVAC system optimization in-building section. *Energy and Buildings*, **2005**, 37, 11-22	7	149
320	A Novel Rate Control Scheme for Low Delay Video Communication of H.264/AVC Standard. *IEEE Transactions on Circuits and Systems for Video Technology*, **2007**, 17, 68-78	6.4	144
319	Robust Kalman filtering for uncertain systems. *Systems and Control Letters*, **1994**, 22, 123-129	2.4	137
318	Robust Human Activity Recognition Using Smartphone Sensors via CT-PCA and Online SVM. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 3070-3080	11.9	126
317	Adaptive Kalman Filtering in Networked Systems With Random Sensor Delays, Multiple Packet Dropouts and Missing Measurements. *IEEE Transactions on Signal Processing*, **2010**, 58, 1577-1588	4.8	124
316	Smartphone Inertial Sensor-Based Indoor Localization and Tracking With iBeacon Corrections. *IEEE Transactions on Industrial Informatics*, **2016**, 12, 1540-1549	11.9	121
315	Design and analysis of discrete-time robust Kalman filters. *Automatica*, **2002**, 38, 1069-1077	5.7	116
314	Augmented distributed gradient methods for multi-agent optimization under uncoordinated constant stepsizes **2015**,		110
313	Region-of-Interest Based Resource Allocation for Conversational Video Communication of H.264/AVC. *IEEE Transactions on Circuits and Systems for Video Technology*, **2008**, 18, 134-139	6.4	109
312	An adaptive technique for robust diagnosis of faults with independent effects on system outputs. *International Journal of Control*, **2002**, 75, 792-802	1.5	109
311	Indoor occupancy estimation from carbon dioxide concentration. *Energy and Buildings*, **2016**, 131, 132-141	7	108
310	Constructive hidden nodes selection of extreme learning machine for regression. *Neurocomputing*, **2010**, 73, 3191-3199	5.4	103

291	New approaches to robust minimum variance filter design. *IEEE Transactions on Signal Processing*, **2001**, 49, 2620-2629	4.8	66
290	A reorganized innovation approach to linear estimation. *IEEE Transactions on Automatic Control*, **2004**, 49, 1810-1814	5.9	62
289	A physiologic model of capillary-tissue exchange for dynamic contrast-enhanced imaging of tumor microcirculation. *IEEE Transactions on Biomedical Engineering*, **2003**, 50, 159-67	5	60
288	Chaotic cryptosystem with high sensitivity to parameter mismatch. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2003**, 50, 579-583		60
287	Stabilization of a class of switched systems via designing switching laws. *IEEE Transactions on Automatic Control*, **2001**, 46, 665-670	5.9	60
286	High-Gain Observers With Sliding Mode for State and Unknown Input Estimations. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 3386-3393	8.9	59
285	A new coordinated control strategy for boiler-turbine system of coal-fired power plant. *IEEE Transactions on Control Systems Technology*, **2005**, 13, 943-954	4.8	58
284	Global optimization for overall HVAC systems—Part II problem solution and simulations. *Energy Conversion and Management*, **2005**, 46, 1015-1028	10.6	58
283	Asynchronous periodic event-triggered consensus for multi-agent systems. *Automatica*, **2017**, 84, 214-220	7	57
282	Modeling regular occupancy in commercial buildings using stochastic models. *Energy and Buildings*, **2015**, 103, 216-223	7	57
281	Robust adaptive gradient-descent training algorithm for recurrent neural networks in discrete time domain. *IEEE Transactions on Neural Networks*, **2008**, 19, 1841-53		55
280	Observer-based stabilization of switching linear systems. *Automatica*, **2003**, 39, 517-524	5.7	55
279	A fusion framework for occupancy estimation in office buildings based on environmental sensor data. *Energy and Buildings*, **2016**, 133, 790-798	7	52
278	High-gain observer with sliding mode for nonlinear state estimation and fault reconstruction. *Journal of the Franklin Institute*, **2014**, 351, 1995-2014	4	51
277	Robust decentralized adaptive stabilization of interconnected systems with guaranteed transient performance. *Automatica*, **2000**, 36, 907-915	5.7	51
276	Dynamic extreme learning machine and its approximation capability. *IEEE Transactions on Cybernetics*, **2013**, 43, 2054-65	10.2	50
275	Reliable guaranteed cost control for uncertain nonlinear systems. *IEEE Transactions on Automatic Control*, **2000**, 45, 2188-2192	5.9	49
274	Robust observer with sliding mode estimation for nonlinear uncertain systems. *IET Control Theory and Applications*, **2007**, 1, 1533-1540	2.5	48

255	Switched controllers and their applications in bilinear systems. *Automatica*, **2001**, 37, 477-481	5.7	36
254	Robust adaptive control of uncertain discrete-time systems. *Automatica*, **1999**, 35, 321-329	5.7	36
253	A Novel Semisupervised Deep Learning Method for Human Activity Recognition. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 3821-3830	11.9	36
252	Rate Control of H.264/AVC Scalable Extension. *IEEE Transactions on Circuits and Systems for Video Technology*, **2008**, 18, 116-121	6.4	35
251	H/sub /spl infin// reduced-order approximation of 2-D digital filters. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2001**, 48, 688-698		34
250	. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 9549-9559	8.9	33
249	Optimal recursive filtering, prediction, and smoothing for singular stochastic discrete-time systems. *IEEE Transactions on Automatic Control*, **1999**, 44, 2154-2158	5.9	33
248	Robust discrete-time nonlinear sliding mode state estimation of uncertain nonlinear systems. *International Journal of Robust and Nonlinear Control*, **2007**, 17, 803-828	3.6	32
247	Guaranteed cost control for discrete-time linear systems under controller gain perturbations. *Linear Algebra and Its Applications*, **2000**, 312, 161-180	0.9	32
246	Improved measurement accuracy of the quadrant detector through improvement of linearity index. *Applied Physics Letters*, **2010**, 96, 081102	3.4	31
245	Decoupled current control and sensor fault detection with second-order sliding mode for induction motor. *IET Control Theory and Applications*, **2015**, 9, 608-617	2.5	29
244	Indoor localization using smartphone sensors and iBeacons **2015**,		28
243	Robust Adaptive Dead Zone Technology for Fault-Tolerant Control of Robot Manipulators Using Neural Networks. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2002**, 33, 113-137	2.9	28
242	Decentralized model reference adaptive control without restriction on subsystem relative degrees. *IEEE Transactions on Automatic Control*, **1999**, 44, 1464-1469	5.9	28
241	Integrated analysis of CFD data with K-means clustering algorithm and extreme learning machine for localized HVAC control. *Applied Thermal Engineering*, **2015**, 76, 98-104	5.8	27
240	Discrete-Time Sliding-Mode State and Unknown Input Estimations for Nonlinear Systems. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 3443-3452	8.9	27
239	An on-chip liquid tunable grating using multiphase droplet microfluidics. *Applied Physics Letters*, **2008**, 93, 164107	3.4	27
238	Adaptive control and synchronization for a class of nonlinear chaotic systems using partial system states. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 351, 79-84	2.3	27

237	Robust stability of a class of hybrid nonlinear systems. *IEEE Transactions on Automatic Control*, **2001**, 46, 897-903	5.9	27
236	Filtering for networked control systems with single/multiple measurement packets subject to multiple-step measurement delays and multiple packet dropouts. *International Journal of Systems Science*, **2011**, 42, 335-348	2.3	26
235	Robustness of an adaptive backstepping controller without modification. *Systems and Control Letters*, **1999**, 36, 87-100	2.4	25
234	Machine learning driven personal comfort prediction by wearable sensing of pulse rate and skin temperature. *Building and Environment*, **2020**, 170, 106615	6.5	25
233	Environmental Sensors-Based Occupancy Estimation in Buildings via IHMM-MLR. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 2184-2193	11.9	24
232	Networked LQG control over unreliable channels. *International Journal of Robust and Nonlinear Control*, **2013**, 23, 167-189	3.6	24
231	Robust consensus of uncertain linear multi-agent systems via dynamic output feedback. *Automatica*, **2018**, 98, 114-123	5.7	24
230	Machine learning based prediction of thermal comfort in buildings of equatorial Singapore **2017**,		23
229	A Bregman Splitting Scheme for Distributed Optimization Over Networks. *IEEE Transactions on Automatic Control*, **2018**, 63, 3809-3824	5.9	23
228	Analysis and improvement of Laguerre-Gaussian beam position estimation using quadrant detectors. *Optics Letters*, **2011**, 36, 1692-4	3	23
227	Multiple sliding mode observers and unknown input estimations for Lipschitz nonlinear systems. *International Journal of Robust and Nonlinear Control*, **2011**, 21, 1322-1340	3.6	23
226	Efficient structure for optical interleavers using superimposed chirped fiber Bragg gratings. *IEEE Photonics Technology Letters*, **2005**, 17, 387-389	2.2	23
225	All-fiber Fourier filter flat-top interleaver design with specified performance parameters. *Optical Engineering*, **2003**, 42, 3172	1.1	23
224	Occupancy estimation from environmental parameters using wrapper and hybrid feature selection. *Applied Soft Computing Journal*, **2017**, 60, 482-494	7.5	22
223	Robust control of linear systems with generalized positive real uncertainty. *Automatica*, **1997**, 33, 963-967	5.7	22
222	Improved robust backstepping adaptive control for nonlinear discrete-time systems without overparameterization. *Automatica*, **2008**, 44, 864-867	5.7	22
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220	Robust stability of quasi-periodic hybrid dynamic uncertain systems. *IEEE Transactions on Automatic Control*, **2001**, 46, 107-111	5.9	22

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218	Optimal Kalman filtering with random sensor delays, packet dropouts and missing measurements **2009**,		21
217	All-fiber 3 /spl times/ 3 interleaver design with flat-top passband. *IEEE Photonics Technology Letters* , **2004**, 16, 168-170	2.2	21
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214	Positive real control problem for uncertain linear time-invariant systems. *Systems and Control Letters*, **1995**, 24, 265-271	2.4	21
213	Generalized edge theorem. *Systems and Control Letters*, **1989**, 12, 219-224	2.4	21
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210	High-gain observer with higher order sliding mode for state and unknown disturbance estimations. *International Journal of Robust and Nonlinear Control*, **2014**, 24, 2136-2151	3.6	20
209	Real-time occupancy estimation using environmental parameters **2015**,		20
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207	Improve performance of scanning probe microscopy by balancing tuning fork prongs. *Ultramicroscopy*, **2009**, 109, 291-5	3.1	18
206	Generalized matrix measure of switched nonlinear systems. *IEEE Transactions on Automatic Control*, **2002**, 47, 178-183	5.9	18
205	An Accurate Separation Estimation Algorithm for the Casimir Oscillator. *Journal of Microelectromechanical Systems*, **2010**, 19, 1153-1161	2.5	17
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199	Periodic event-triggered average consensus over directed graphs **2015**,		16
198	Synthesis of stable H controller via the chain scattering framework. *Systems and Control Letters*, **2002**, 47, 121-127	2.4	16
197	Robust Kalman filter design		16
196	Sufficient conditions for almost sure stability of jump linear systems. *IEEE Transactions on Automatic Control*, **2000**, 45, 1325-1329	5.9	16
195	Global stabilization for constrained robot motions with constraint uncertainties. *Robotica*, **1998**, 16, 171-179	2.1	16
194	Robust Fault Diagnosis for a Class of Linear Systems with Uncertainty. *Journal of Guidance, Control, and Dynamics*, **1999**, 22, 736-736	2.1	16
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192	Numerical investigation of supercritical water flow in a vertical pipe under axially non-uniform heat flux. *Progress in Nuclear Energy*, **2017**, 97, 11-25	2.3	15
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186	Identification for systems with bounded noise. *IEEE Transactions on Automatic Control*, **1997**, 42, 996-1009	5.9	15
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183	Workload Factoring and Resource Sharing via Joint Vertical and Horizontal Cloud Federation Networks. *IEEE Journal on Selected Areas in Communications*, **2017**, 35, 557-570	14.2	14
182	A Dual Splitting Approach for Distributed Resource Allocation With Regularization. *IEEE Transactions on Control of Network Systems*, **2019**, 6, 403-414	4	14
181	Robust Kalman Filter Design for Discrete Time-Delay Systems. *Circuits, Systems, and Signal Processing*, **2002**, 21, 319-335	2.2	14
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179	On assuming Mean Radiant Temperature equal to air temperature during PMV-based thermal comfort study in air-conditioned buildings **2016**,		13
178	On the choice of consistent canonical form during moment normalization. *Pattern Recognition Letters*, **2003**, 24, 3205-3215	4.7	12
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176	Decentralized control of symmetric systems. *Systems and Control Letters*, **2001**, 42, 145-149	2.4	12
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173	A distributed simultaneous perturbation approach for large-scale dynamic optimization problems. *Automatica*, **2016**, 72, 194-204	5.7	10
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164	Stabilizing model predictive control using parameter-dependent dynamic policy for nonlinear systems modeled with neural networks. *Journal of Process Control*, **2015**, 36, 11-21	3.9	9
163	Safety analysis of Super-Critical Water Reactors A review. *Progress in Nuclear Energy*, **2018**, 106, 87-101	2.3	9
162	Optical coherence tomography by using frequency measurements in wavelength domain. *Optics Express*, **2011**, 19, 1324-34	3.3	9
161	Stability of uncertain quasi-periodic hybrid dynamic systems. *International Journal of Control*, **2000**, 73, 63-73	1.5	9
160	Convergence and robustness of a discrete-time learning control scheme for constrained manipulators. *Journal of Field Robotics*, **1994**, 11, 223-238		9
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158	Higher-Order Sliding Mode Observer for Speed and Position Estimation in PMSM. *Mathematical Problems in Engineering*, **2014**, 2014, 1-12	1.1	8
157	An information-theoretic fuzzy C-spherical shells clustering algorithm. *Fuzzy Sets and Systems*, **2010**, 161, 1755-1773	3.7	8
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155	Performance improvement and wavelength reuse in millimeter-wave radio-over-fiber links incorporating all-fiber optical interleaver. *Optics Communications*, **2008**, 281, 2572-2581	2	8
154	Flat-passband 3 /spl times/ 3 interleaving filter designed with optical directional couplers in lattice structure. *Journal of Lightwave Technology*, **2005**, 23, 4349-4362	4	8
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152	Nonlinear multi-rate current state estimation: convergence analysis and application to biological systems. *Computers and Chemical Engineering*, **2004**, 28, 1623-1633	4	8
151	Optimal and self-tuning State estimation for singular stochastic systems: a polynomial equation approach. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2004**, 51, 327-333		8
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134	. *IEEE Transactions on Automatic Control*, **2018**, 1-1	5.9	7
133	Performance analysis of averaging based distributed estimation algorithm with additive quantization model. *Automatica*, **2017**, 80, 95-101	5.7	6
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123	Robust stability of perturbed switching systems by matrix measure. *Systems and Control Letters*, **2002**, 45, 9-19	2.4	6
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116	An improved dynamic model of tuning fork probe for scanning probe microscopy. *Journal of Microscopy*, **2009**, 234, 191-5	1.9	5
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102	. *IEEE Transactions on Automatic Control*, **1990**, 35, 477-479	5.9	5
101	Achieving linear convergence for distributed optimization with zeno-like-free event-triggered communication scheme **2017**,		4
100	Consensus of homogeneous multi-agent systems via output-feedback protocols without controller interaction: A unified robust control view **2016**,		4
99	Physical field estimation from CFD database and sparse sensor observations **2015**,		4
98	Autocorrelation noise removal for optical coherence tomography by sparse filter design. *Journal of Biomedical Optics*, **2012**, 17, 076029	3.5	4
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