

Jongeun Choi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126 papers	1,393 citations	22 h-index	32 g-index
159 ext. papers	1,805 ext. citations	3.5 avg, IF	5 L-index

#	Paper	IF	Citations
126	Safety-Critical Control With Nonaffine Control Inputs Via a Relaxed Control Barrier Function for an Autonomous Vehicle. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 1944-1951	4.2	0
125	Suspension Control Strategies Using Switched Soft Actor-Critic Models for Real Roads. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	0
124	Regularized nonlinear regression for simultaneously selecting and estimating key model parameters: Application to head-neck position tracking. <i>Engineering Applications of Artificial Intelligence</i> , 2022 , 113, 104974	7.2	0
123	The Effects of Osteopathic Manipulative Treatment on Pain and Disability in Patients with Chronic Neck Pain: A Single-Blinded Randomized Controlled Trial. <i>PM and R</i> , 2021 ,	2.2	1
122	Large-Area, Crosstalk-Free, Flexible Tactile Sensor Matrix Pixelated by Mesh Layers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12259-12267	9.5	7
121	Vision-Based Uncertainty-Aware Lane Keeping Strategy Using Deep Reinforcement Learning. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2021 , 143,	1.6	3
120	Correction to Gaussian Process Online Learning With a Sparse Data Stream[Oct 20 5977-5984]. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 429-430	4.2	0
119	Machine learning approaches to surrogate multifidelity Growth and Remodeling models for efficient abdominal aortic aneurysmal applications. <i>Computers in Biology and Medicine</i> , 2021 , 133, 104397	7	2
118	State reconstruction in a nonlinear vehicle suspension system using deep neural networks. <i>Nonlinear Dynamics</i> , 2021 , 105, 439-455	5	1
117	Training an artificial neural network for recognizing electron collision patterns. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 387, 127005	2.3	2
116	Nonaffine Helicopter Control Design and Implementation Based on a Robust Explicit Nonlinear Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-8	4.8	4
115	Deep Learning-Based Software Improves Clinicians' Detection Sensitivity of Aneurysms on Brain TOF-MRA. <i>American Journal of Neuroradiology</i> , 2021 , 42, 1769-1775	4.4	2
114	Stability threshold during seated balancing is sensitive to low back pain and safe to assess. <i>Journal of Biomechanics</i> , 2021 , 125, 110541	2.9	0
113	Diagnosis of obstructive sleep apnea with prediction of flow characteristics according to airway morphology automatically extracted from medical images: Computational fluid dynamics and artificial intelligence approach. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 208, 106243	6.9	1
112	Output feedback control design using Extended High-Gain Observers and dynamic inversion with projection for a small scaled helicopter. <i>Automatica</i> , 2021 , 133, 109883	5.7	2
111	Prediction of Reward Functions for Deep Reinforcement Learning via Gaussian Process Regression. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 1739-1746	5.5	7
110	Customer-Specific Robotic Attendant for VR Simulators. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 1901-1910	4.9	1

109	Coronary artery decision algorithm trained by two-step machine learning algorithm.. <i>RSC Advances</i> , 2020 , 10, 4014-4022	3.7	2
108	A Deep Learning Approach to Predict Abdominal Aortic Aneurysm Expansion Using Longitudinal Data. <i>Frontiers in Physics</i> , 2020 , 7,	3.9	18
107	Automated Skeletal Classification with Lateral Cephalometry Based on Artificial Intelligence. <i>Journal of Dental Research</i> , 2020 , 99, 249-256	8.1	40
106	Unexpected Collision Avoidance Driving Strategy Using Deep Reinforcement Learning. <i>IEEE Access</i> , 2020 , 8, 17243-17252	3.5	10
105	Multifidelity Sampling for Fast Bayesian Shape Estimation With Tactile Exploration. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 4478-4488	11.9	3
104	Early prediction of Alzheimer's disease using longitudinal volumetric MRI data from ADNI. <i>Health Services and Outcomes Research Methodology</i> , 2020 , 20, 13-39	1.6	2
103	Quantifying trunk neuromuscular control using seated balancing and stability threshold. <i>Journal of Biomechanics</i> , 2020 , 112, 110038	2.9	2
102	Automated cephalometric landmark detection with confidence regions using Bayesian convolutional neural networks. <i>BMC Oral Health</i> , 2020 , 20, 270	3.7	23
101	Gaussian Process Online Learning With a Sparse Data Stream. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 5977-5984	4.2	2
100	Efficient Sampling for Rapid Estimation of 3-D Stiffness Distribution via Active Tactile Exploration. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 1729-1738	5.5	1
99	Intraluminal thrombus effect on the progression of abdominal aortic aneurysms by using a multistate continuous-time Markov chain model. <i>Journal of International Medical Research</i> , 2020 , 48, 300060520968449	1.4	2
98	Model Predictive Tracking Control for Invariant Systems on Matrix Lie Groups via Stable Embedding Into Euclidean Spaces. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3191-3198	5.9	3
97	Feasibility of Incorporating Test-Retest Reliability and Model Diversity in Identification of Key Neuromuscular Pathways During Head Position Tracking. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 275-282	4.8	2
96	Driving Assistant Companion With Voice Interface Using Long Short-Term Memory Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 582-590	11.9	21
95	Analysis of conversion of Alzheimer's disease using a multi-state Markov model. <i>Statistical Methods in Medical Research</i> , 2019 , 28, 2801-2819	2.3	10
94	Prediction of Abdominal Aortic Aneurysm Growth Using Dynamical Gaussian Process Implicit Surface. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 609-622	5	13
93	Patient-Specific Prediction of Abdominal Aortic Aneurysm Expansion Using Bayesian Calibration. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 2537-2550	7.2	14
92	Inferring Control Intent during Seated Balance using Inverse Model Predictive Control. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 224-230	4.2	6

91	Selecting Sensitive Parameter Subsets in Dynamical Models With Application to Biomechanical System Identification. <i>Journal of Biomechanical Engineering</i> , 2018 , 140,	2.1	3
90	Appearance-Based Localization of Mobile Robots Using Group LASSO Regression. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	3
89	Anomaly Detection of Electromyographic Signals. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 770-779	4.8	6
88	Fully Bayesian Prediction Algorithms for Mobile Robotic Sensors under Uncertain Localization Using Gaussian Markov Random Fields. <i>Sensors</i> , 2018 , 18,	3.8	2
87	Feedback control of an achiral robotic microswimmer. <i>Journal of Bionic Engineering</i> , 2017 , 14, 245-259	2.7	31
86	Reliability of assessing postural control during seated balancing using a physical human-robot interaction. <i>Journal of Biomechanics</i> , 2017 , 64, 198-205	2.9	6
85	Robotic solutions to facilitate studying human motor control 2017 ,		2
84	Uncertainty and Disturbance Estimation for Quadrotor Control Using Extended High-Gain Observers: Experimental Implementation 2017 ,		3
83	A Distributed Navigation Strategy for Mobile Sensor Networks With the Probabilistic Wireless Links. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	1
82	Data-driven system identification of the social network dynamics in online postings of an extremist group 2016 ,		2
81	Guaranteed Performance State-Feedback Gain-Scheduling Control With Uncertain Scheduling Parameters. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2016 , 138,	1.6	14
80	Optimal LPV control with hard constraints. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 148-162	2.9	8
79	Association of Intraluminal Thrombus, Hemodynamic Forces, and Abdominal Aortic Aneurysm Expansion Using Longitudinal CT Images. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1502-14	4.7	50
78	Bayesian Prediction and Adaptive Sampling Algorithms for Mobile Sensor Networks. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2016 ,	0.4	3
77	Fully Bayesian Field Slam Using Gaussian Markov Random Fields. <i>Asian Journal of Control</i> , 2016 , 18, 1175-1188	1.1	5
76	Inferring human subject motor control intent using inverse MPC 2016 ,		8
75	Implementation of State and Disturbance Estimation for Quadrotor Control Using Extended High-Gain Observers 2016 ,		1
74	Level-Set Based Greedy Algorithm With Sequential Gaussian Process Regression for Implicit Surface Estimation 2016 ,		2

73	Feature selection for position estimation using an omnidirectional camera. <i>Image and Vision Computing</i> , 2015 , 39, 1-9	3.7	13
72	Tips on Stochastic Optimal Feedback Control and Bayesian Spatiotemporal Models: Applications to Robotics. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	9
71	On growth measurements of abdominal aortic aneurysms using maximally inscribed spheres. <i>Medical Engineering and Physics</i> , 2015 , 37, 683-91	2.4	17
70	Appearance-based localization using Group LASSO regression with an indoor experiment 2015 ,		3
69	Flexible and transparent benzene sensor using functionalized few-layer MoS2 2015 ,		1
68	Feedback control of three-bead achiral robotic microswimmers 2015 ,		5
67	Linear Matrix Inequalities Approach to Input Covariance Constraint Control With Application to Electronic Throttle. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	3
66	Distributed Gaussian Process Regression Under Localization Uncertainty. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	9
65	Time-Domain Optimal Experimental Design in Human Seated Postural Control Testing. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137, 0545011-545017	1.6	7
64	Computational Growth and Remodeling of Abdominal Aortic Aneurysms Constrained by the Spine. <i>Journal of Biomechanical Engineering</i> , 2015 , 137,	2.1	22
63	Prior Distributions of Material Parameters for Bayesian Calibration of Growth and Remodeling Computational Model of Abdominal Aortic Wall. <i>Journal of Biomechanical Engineering</i> , 2015 , 137, 101001-1	2.1	24
62	Solutions to the Inverse LQR Problem with Application to Biological Systems Analysis. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 770-777	4.8	74
61	Quantitative measures of sagittal plane head-neck control: a test-retest reliability study. <i>Journal of Biomechanics</i> , 2015 , 48, 549-54	2.9	10
60	Scalar sensor-based adaptive manipulation for source seeking. <i>International Journal of Control, Automation and Systems</i> , 2014 , 12, 126-136	2.9	1
59	Towards Model-Based Control of Achiral Microswimmers 2014 ,		8
58	The Inverse Problem of Continuous-Time Linear Quadratic Gaussian Control With Application to Biological Systems Analysis 2014 ,		4
57	Reliability of assessing trunk motor control using position and force tracking and stabilization tasks. <i>Journal of Biomechanics</i> , 2014 , 47, 44-9	2.9	14
56	Determination of body segment masses and centers of mass using a force plate method. <i>Medical Engineering and Physics</i> , 2014 , 36, 805-6	2.4	2

55	Development of a SLAM System for Small UAVs in Indoor Environments using Gaussian Processes. <i>Journal of Institute of Control, Robotics and Systems</i> , 2014 , 20, 1098-1102	1	5
54	Efficient Bayesian spatial prediction with mobile sensor networks using Gaussian Markov random fields. <i>Automatica</i> , 2013 , 49, 3520-3530	5.7	31
53	Dynamic, output-feedback, gain-scheduling control of an electric variable valve timing system 2013 ,		2
52	. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 229-238	4.8	22
51	Environmental Monitoring Using Autonomous Aquatic Robots: Sampling Algorithms and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 899-905	4.8	36
50	Determining Human Control Intent Using Inverse LQR Solutions 2013 ,		3
49	Linear Parameter-Varying Control for Engineering Applications. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2013 ,	0.4	22
48	Fully Bayesian simultaneous localization and spatial prediction using Gaussian Markov random fields (GMRFs) 2013 ,		6
47	Gaussian Process Regression for Sensor Networks Under Localization Uncertainty. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 223-237	4.8	37
46	Odor-conditioned rheotaxis of the sea lamprey: modeling, analysis and validation. <i>Bioinspiration and Biomimetics</i> , 2013 , 8, 046011	2.6	3
45	Sea lamprey orient toward a source of a synthesized pheromone using odor-conditioned rheotaxis. <i>Behavioral Ecology and Sociobiology</i> , 2012 , 66, 1557-1567	2.5	24
44	Gaussian process regression using Laplace approximations under localization uncertainty 2012 ,		3
43	Spatial prediction with mobile sensor networks using Gaussian processes with built-in Gaussian Markov random fields. <i>Automatica</i> , 2012 , 48, 1735-1740	5.7	23
42	Sequential Bayesian Prediction and Adaptive Sampling Algorithms for Mobile Sensor Networks. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2078-2084	5.9	27
41	Stochastic adaptive sampling for mobile sensor networks using kernel regression. <i>International Journal of Control, Automation and Systems</i> , 2012 , 10, 778-786	2.9	5
40	Adaptive Control of Multiagent Systems for Finding Peaks of Uncertain Static Fields. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	13
39	A Linear Matrix Inequality Solution to the Output Covariance Constraint Control Problem 2012 ,		3
38	A unified Bayesian approach for prediction and detection using mobile sensor networks 2012 ,		1

37	Comparison of the Abbott RealTime High-Risk Human Papillomavirus (HPV), Roche Cobas HPV, and Hybrid Capture 2 assays to direct sequencing and genotyping of HPV DNA. <i>Journal of Clinical Microbiology</i> , 2012 , 50, 2359-65	9.7	44
36	Efficient Spatial Prediction Using Gaussian Markov Random Fields Under Uncertain Localization 2012 ,		5
35	Robust Optimal Experimental Design for Study of the Human Head-Neck Tracking Response 2012 ,		3
34	Mobile Sensor Network Navigation Using Gaussian Processes With Truncated Observations 2011 , 27, 1118-1131		54
33	Parameter estimation for wavelet transformed ultrasonic signals. <i>NDT and E International</i> , 2011 , 44, 32-40	4.1	6
32	. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1433-1443	4.8	10
31	Carbon nanotubes-integrated inertial switch for reliable detection of threshold acceleration 2011 ,		5
30	Gain-scheduling control of port-fuel-injection processes. <i>Control Engineering Practice</i> , 2011 , 19, 380-394	3.9	18
29	Plastic deformation of microstructures using carbon nanotubes film as latching surface 2011 ,		1
28	Adaptive sampling for learning gaussian processes using mobile sensor networks. <i>Sensors</i> , 2011 , 11, 3051-3066	3.6	45
27	Explorative navigation of mobile sensor networks using sparse Gaussian processes 2010 ,		6
26	Characterization of wavelet coefficients for ultrasonic signals. <i>Journal of Applied Physics</i> , 2010 , 107, 114909	2.9	8
25	Learning Coverage Control of Mobile Sensing Agents in One-Dimensional Stochastic Environments. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 804-809	5.9	7
24	Distributed learning in mobile sensor networks using cross validation 2010 ,		2
23	Optimal control of the spine system. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 051004	2.1	12
22	Parameter Reduction in Estimated Model Sets for Robust Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132,	1.6	11
21	Robust optimal design of diffusion-weighted magnetic resonance experiments for skin microcirculation. <i>Journal of Magnetic Resonance</i> , 2010 , 206, 246-54	3	5
20	Robust Track-Following Controller Design in Hard Disk Drives Based on Parameter Dependent Lyapunov Functions. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1060-1068	2	16

19	On parameter estimation for biaxial mechanical behavior of arteries. <i>Journal of Biomechanics</i> , 2009 , 42, 524-30	2.9	51
18	Distributed learning and cooperative control for multi-agent systems. <i>Automatica</i> , 2009 , 45, 2802-2814	5.7	120
17	Posture-Predictive Power Control in Body Sensor Networks Using Linear-Quadratic Gaussian Control 2009 ,		6
16	Parameter reduction of nonlinear least-squares estimates via nonconvex optimization 2008 ,		3
15	Swarm intelligence for achieving the global maximum using spatio-temporal Gaussian processes 2008 ,		4
14	Biologically-inspired Navigation Strategies for Swarm Intelligence using Spatial Gaussian Processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 593-598		5
13	Parameter Reduction of Nonlinear Least-Squares Estimates via the Singular Value Decomposition. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 12383-12388		1
12	Multiple robust track-following controller design in hard disk drives. <i>International Journal of Adaptive Control and Signal Processing</i> , 2008 , 22, 359-373	2.8	3
11	Cooperatively learning mobile agents for gradient climbing 2007 ,		2
10	Topological flow characteristics in a butterfly valve used for a spark ignition engine. <i>Journal of Visualization</i> , 2006 , 9, 291-299	1.6	1
9	Effects of an air spoiler on the wake of a road vehicle by PIV measurements. <i>Journal of Visualization</i> , 2006 , 9, 411-418	1.6	3
8	Measurements in the wake of an airfoil with regular roughness on the upper surface near the leading edge. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2006 , 220, 203-208	0.9	
7	Synthesis of multiple robust controllers for parametric uncertain LTI systems 2006 ,		1
6	PII-23. <i>Clinical Pharmacology and Therapeutics</i> , 2006 , 79, P42-P42	6.1	
5	. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 683-690	2.5	30
4	Characterization and performance of optomechanical uncooled infrared imaging system 2003 , 4820, 164		13
3	Design and control of a thermal stabilizing system for a MEMS optomechanical uncooled infrared imaging camera. <i>Sensors and Actuators A: Physical</i> , 2003 , 104, 132-142	3.9	23
2	DESIGN AND CONTROL OF A THERMAL STABILIZING SYSTEM FOR AN OPTOMECHANICAL UNCOOLED INFRARED IMAGING CAMERA. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 367-372		1

1	Significance of mesangial IgA deposition in minimal change nephrotic syndrome: a study of 60 cases. <i>Yonsei Medical Journal</i> , 1990 , 31, 258-63	3	13
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