

# Jongeun Choi

## List of Publications by Citations

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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	Distributed learning and cooperative control for multi-agent systems. <i>Automatica</i> , <b>2009</b> , 45, 2802-2814	5.7	120
125	Solutions to the Inverse LQR Problem with Application to Biological Systems Analysis. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 770-777	4.8	74
124	Mobile Sensor Network Navigation Using Gaussian Processes With Truncated Observations <b>2011</b> , 27, 1118-1131		54
123	On parameter estimation for biaxial mechanical behavior of arteries. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 524-30	2.9	51
122	Association of Intraluminal Thrombus, Hemodynamic Forces, and Abdominal Aortic Aneurysm Expansion Using Longitudinal CT Images. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 1502-14	4.7	50
121	Adaptive sampling for learning gaussian processes using mobile sensor networks. <i>Sensors</i> , <b>2011</b> , 11, 3051-56	3.6	45
120	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> , <b>2012</b> , 50, 2359-65	9.7	44
119	Automated Skeletal Classification with Lateral Cephalometry Based on Artificial Intelligence. <i>Journal of Dental Research</i> , <b>2020</b> , 99, 249-256	8.1	40
118	Gaussian Process Regression for Sensor Networks Under Localization Uncertainty. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 61, 223-237	4.8	37
117	Environmental Monitoring Using Autonomous Aquatic Robots: Sampling Algorithms and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 899-905	4.8	36
116	Feedback control of an achiral robotic microswimmer. <i>Journal of Bionic Engineering</i> , <b>2017</b> , 14, 245-259	2.7	31
115	Efficient Bayesian spatial prediction with mobile sensor networks using Gaussian Markov random fields. <i>Automatica</i> , <b>2013</b> , 49, 3520-3530	5.7	31
114	. <i>Journal of Microelectromechanical Systems</i> , <b>2005</b> , 14, 683-690	2.5	30
113	Sequential Bayesian Prediction and Adaptive Sampling Algorithms for Mobile Sensor Networks. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 2078-2084	5.9	27
112	Prior Distributions of Material Parameters for Bayesian Calibration of Growth and Remodeling Computational Model of Abdominal Aortic Wall. <i>Journal of Biomechanical Engineering</i> , <b>2015</b> , 137, 101001	2.1	24
111	Sea lamprey orient toward a source of a synthesized pheromone using odor-conditioned rheotaxis. <i>Behavioral Ecology and Sociobiology</i> , <b>2012</b> , 66, 1557-1567	2.5	24
110	Spatial prediction with mobile sensor networks using Gaussian processes with built-in Gaussian Markov random fields. <i>Automatica</i> , <b>2012</b> , 48, 1735-1740	5.7	23

109	Design and control of a thermal stabilizing system for a MEMS optomechanical uncooled infrared imaging camera. <i>Sensors and Actuators A: Physical</i> , <b>2003</b> , 104, 132-142	3.9	23
108	Automated cephalometric landmark detection with confidence regions using Bayesian convolutional neural networks. <i>BMC Oral Health</i> , <b>2020</b> , 20, 270	3.7	23
107	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 229-238	4.8	22
106	Computational Growth and Remodeling of Abdominal Aortic Aneurysms Constrained by the Spine. <i>Journal of Biomechanical Engineering</i> , <b>2015</b> , 137,	2.1	22
105	Linear Parameter-Varying Control for Engineering Applications. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2013</b> ,	0.4	22
104	Driving Assistant Companion With Voice Interface Using Long Short-Term Memory Networks. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 582-590	11.9	21
103	A Deep Learning Approach to Predict Abdominal Aortic Aneurysm Expansion Using Longitudinal Data. <i>Frontiers in Physics</i> , <b>2020</b> , 7,	3.9	18
102	Gain-scheduling control of port-fuel-injection processes. <i>Control Engineering Practice</i> , <b>2011</b> , 19, 380-394	3.9	18
101	On growth measurements of abdominal aortic aneurysms using maximally inscribed spheres. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 683-91	2.4	17
100	Robust Track-Following Controller Design in Hard Disk Drives Based on Parameter Dependent Lyapunov Functions. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 1060-1068	2	16
99	Guaranteed Performance State-Feedback Gain-Scheduling Control With Uncertain Scheduling Parameters. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2016</b> , 138,	1.6	14
98	Patient-Specific Prediction of Abdominal Aortic Aneurysm Expansion Using Bayesian Calibration. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 2537-2550	7.2	14
97	Reliability of assessing trunk motor control using position and force tracking and stabilization tasks. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 44-9	2.9	14
96	Prediction of Abdominal Aortic Aneurysm Growth Using Dynamical Gaussian Process Implicit Surface. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 609-622	5	13
95	Feature selection for position estimation using an omnidirectional camera. <i>Image and Vision Computing</i> , <b>2015</b> , 39, 1-9	3.7	13
94	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> , <b>2012</b> , 134,	1.6	13
93	Characterization and performance of optomechanical uncooled infrared imaging system <b>2003</b> , 4820, 164		13
92	Significance of mesangial IgA deposition in minimal change nephrotic syndrome: a study of 60 cases. <i>Yonsei Medical Journal</i> , <b>1990</b> , 31, 258-63	3	13

91	Optimal control of the spine system. <i>Journal of Biomechanical Engineering</i> , <b>2010</b> , 132, 051004	2.1	12
90	Parameter Reduction in Estimated Model Sets for Robust Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2010</b> , 132,	1.6	11
89	Unexpected Collision Avoidance Driving Strategy Using Deep Reinforcement Learning. <i>IEEE Access</i> , <b>2020</b> , 8, 17243-17252	3.5	10
88	Analysis of conversion of Alzheimer's disease using a multi-state Markov model. <i>Statistical Methods in Medical Research</i> , <b>2019</b> , 28, 2801-2819	2.3	10
87	Quantitative measures of sagittal plane head-neck control: a test-retest reliability study. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 549-54	2.9	10
86	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 1433-1443	4.8	10
85	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> , <b>2015</b> , 137,	1.6	9
84	Distributed Gaussian Process Regression Under Localization Uncertainty. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	9
83	Optimal LPV control with hard constraints. <i>International Journal of Control, Automation and Systems</i> , <b>2016</b> , 14, 148-162	2.9	8
82	Towards Model-Based Control of Achiral Microswimmers <b>2014</b> ,		8
81	Characterization of wavelet coefficients for ultrasonic signals. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 114209	2.9	8
80	Inferring human subject motor control intent using inverse MPC <b>2016</b> ,		8
79	Prediction of Reward Functions for Deep Reinforcement Learning via Gaussian Process Regression. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 1739-1746	5.5	7
78	Time-Domain Optimal Experimental Design in Human Seated Postural Control Testing. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2015</b> , 137, 0545011-545017	1.6	7
77	Learning Coverage Control of Mobile Sensing Agents in One-Dimensional Stochastic Environments. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 804-809	5.9	7
76	Large-Area, Crosstalk-Free, Flexible Tactile Sensor Matrix Pixelated by Mesh Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12259-12267	9.5	7
75	Reliability of assessing postural control during seated balancing using a physical human-robot interaction. <i>Journal of Biomechanics</i> , <b>2017</b> , 64, 198-205	2.9	6
74	Anomaly Detection of Electromyographic Signals. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2018</b> , 26, 770-779	4.8	6

73	Fully Bayesian simultaneous localization and spatial prediction using Gaussian Markov random fields (GMRFs) <b>2013</b> ,		6
72	Parameter estimation for wavelet transformed ultrasonic signals. <i>NDT and E International</i> , <b>2011</b> , 44, 32-40,	4.1	6
71	Explorative navigation of mobile sensor networks using sparse Gaussian processes <b>2010</b> ,		6
70	Posture-Predictive Power Control in Body Sensor Networks Using Linear-Quadratic Gaussian Control <b>2009</b> ,		6
69	Inferring Control Intent during Seated Balance using Inverse Model Predictive Control. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 224-230	4.2	6
68	Feedback control of three-bead achiral robotic microswimmers <b>2015</b> ,		5
67	Stochastic adaptive sampling for mobile sensor networks using kernel regression. <i>International Journal of Control, Automation and Systems</i> , <b>2012</b> , 10, 778-786	2.9	5
66	Carbon nanotubes-integrated inertial switch for reliable detection of threshold acceleration <b>2011</b> ,		5
65	Efficient Spatial Prediction Using Gaussian Markov Random Fields Under Uncertain Localization <b>2012</b> ,		5
64	Robust optimal design of diffusion-weighted magnetic resonance experiments for skin microcirculation. <i>Journal of Magnetic Resonance</i> , <b>2010</b> , 206, 246-54	3	5
63	Biologically-inspired Navigation Strategies for Swarm Intelligence using Spatial Gaussian Processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 593-598		5
62	Development of a SLAM System for Small UAVs in Indoor Environments using Gaussian Processes. <i>Journal of Institute of Control, Robotics and Systems</i> , <b>2014</b> , 20, 1098-1102	1	5
61	Fully Bayesian Field Slam Using Gaussian Markov Random Fields. <i>Asian Journal of Control</i> , <b>2016</b> , 18, 1175-1188	1.1	5
60	The Inverse Problem of Continuous-Time Linear Quadratic Gaussian Control With Application to Biological Systems Analysis <b>2014</b> ,		4
59	Swarm intelligence for achieving the global maximum using spatio-temporal Gaussian processes <b>2008</b> ,		4
58	Nonaffine Helicopter Control Design and Implementation Based on a Robust Explicit Nonlinear Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-8	4.8	4
57	Multifidelity Sampling for Fast Bayesian Shape Estimation With Tactile Exploration. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 4478-4488	11.9	3
56	Selecting Sensitive Parameter Subsets in Dynamical Models With Application to Biomechanical System Identification. <i>Journal of Biomechanical Engineering</i> , <b>2018</b> , 140,	2.1	3

55	Appearance-Based Localization of Mobile Robots Using Group LASSO Regression. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2018</b> , 140,	1.6	3
54	Bayesian Prediction and Adaptive Sampling Algorithms for Mobile Sensor Networks. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2016</b> ,	0.4	3
53	Uncertainty and Disturbance Estimation for Quadrotor Control Using Extended High-Gain Observers: Experimental Implementation <b>2017</b> ,		3
52	Appearance-based localization using Group LASSO regression with an indoor experiment <b>2015</b> ,		3
51	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> , <b>2015</b> , 137,	1.6	3
50	Gaussian process regression using Laplace approximations under localization uncertainty <b>2012</b> ,		3
49	A Linear Matrix Inequality Solution to the Output Covariance Constraint Control Problem <b>2012</b> ,		3
48	Determining Human Control Intent Using Inverse LQR Solutions <b>2013</b> ,		3
47	Odor-conditioned rheotaxis of the sea lamprey: modeling, analysis and validation. <i>Bioinspiration and Biomimetics</i> , <b>2013</b> , 8, 046011	2.6	3
46	Robust Optimal Experimental Design for Study of the Human Head-Neck Tracking Response <b>2012</b> ,		3
45	Parameter reduction of nonlinear least-squares estimates via nonconvex optimization <b>2008</b> ,		3
44	Multiple robust track-following controller design in hard disk drives. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2008</b> , 22, 359-373	2.8	3
43	Effects of an air spoiler on the wake of a road vehicle by PIV measurements. <i>Journal of Visualization</i> , <b>2006</b> , 9, 411-418	1.6	3
42	Vision-Based Uncertainty-Aware Lane Keeping Strategy Using Deep Reinforcement Learning. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2021</b> , 143,	1.6	3
41	Model Predictive Tracking Control for Invariant Systems on Matrix Lie Groups via Stable Embedding Into Euclidean Spaces. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3191-3198	5.9	3
40	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> , <b>2019</b> , 27, 275-282	4.8	2
39	Coronary artery decision algorithm trained by two-step machine learning algorithm.. <i>RSC Advances</i> , <b>2020</b> , 10, 4014-4022	3.7	2
38	Data-driven system identification of the social network dynamics in online postings of an extremist group <b>2016</b> ,		2

37	Dynamic, output-feedback, gain-scheduling control of an electric variable valve timing system <b>2013</b> ,		2
36	Robotic solutions to facilitate studying human motor control <b>2017</b> ,		2
35	Determination of body segment masses and centers of mass using a force plate method. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 805-6	2.4	2
34	Distributed learning in mobile sensor networks using cross validation <b>2010</b> ,		2
33	Cooperatively learning mobile agents for gradient climbing <b>2007</b> ,		2
32	Early prediction of Alzheimer's disease using longitudinal volumetric MRI data from ADNI. <i>Health Services and Outcomes Research Methodology</i> , <b>2020</b> , 20, 13-39	1.6	2
31	Quantifying trunk neuromuscular control using seated balancing and stability threshold. <i>Journal of Biomechanics</i> , <b>2020</b> , 112, 110038	2.9	2
30	Gaussian Process Online Learning With a Sparse Data Stream. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 5977-5984	4.2	2
29	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> , <b>2020</b> , 48, 300060520968449	1.4	2
28	Machine learning approaches to surrogate multifidelity Growth and Remodeling models for efficient abdominal aortic aneurysmal applications. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 133, 104394	7	2
27	Level-Set Based Greedy Algorithm With Sequential Gaussian Process Regression for Implicit Surface Estimation <b>2016</b> ,		2
26	Training an artificial neural network for recognizing electron collision patterns. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2021</b> , 387, 127005	2.3	2
25	Fully Bayesian Prediction Algorithms for Mobile Robotic Sensors under Uncertain Localization Using Gaussian Markov Random Fields. <i>Sensors</i> , <b>2018</b> , 18,	3.8	2
24	Deep Learning-Based Software Improves Clinicians' Detection Sensitivity of Aneurysms on Brain TOF-MRA. <i>American Journal of Neuroradiology</i> , <b>2021</b> , 42, 1769-1775	4.4	2
23	Output feedback control design using Extended High-Gain Observers and dynamic inversion with projection for a small scaled helicopter. <i>Automatica</i> , <b>2021</b> , 133, 109883	5.7	2
22	Customer-Specific Robotic Attendant for VR Simulators. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2020</b> , 17, 1901-1910	4.9	1
21	Scalar sensor-based adaptive manipulation for source seeking. <i>International Journal of Control, Automation and Systems</i> , <b>2014</b> , 12, 126-136	2.9	1
20	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> , <b>2017</b> , 139,	1.6	1



19	Flexible and transparent benzene sensor using functionalized few-layer MoS <sub>2</sub> <b>2015</b> ,		1
18	Plastic deformation of microstructures using carbon nanotubes film as latching surface <b>2011</b> ,		1
17	A unified Bayesian approach for prediction and detection using mobile sensor networks <b>2012</b> ,		1
16	Parameter Reduction of Nonlinear Least-Squares Estimates via the Singular Value Decomposition. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 12383-12388		1
15	Topological flow characteristics in a butterfly valve used for a spark ignition engine. <i>Journal of Visualization</i> , <b>2006</b> , 9, 291-299	1.6	1
14	Synthesis of multiple robust controllers for parametric uncertain LTI systems <b>2006</b> ,		1
13	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> , <b>2002</b> , 35, 367-372		1
12	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> , <b>2021</b> ,	2.2	1
11	Efficient Sampling for Rapid Estimation of 3-D Stiffness Distribution via Active Tactile Exploration. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 1729-1738	5.5	1
10	State reconstruction in a nonlinear vehicle suspension system using deep neural networks. <i>Nonlinear Dynamics</i> , <b>2021</b> , 105, 439-455	5	1
9	Implementation of State and Disturbance Estimation for Quadrotor Control Using Extended High-Gain Observers <b>2016</b> ,		1
8	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> , <b>2021</b> , 208, 106243	6.9	1
7	Safety-Critical Control With Nonaffine Control Inputs Via a Relaxed Control Barrier Function for an Autonomous Vehicle. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 1944-1951	4.2	0
6	Correction to "Gaussian Process Online Learning With a Sparse Data Stream"[Oct 20 5977-5984]. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 429-430	4.2	0
5	Stability threshold during seated balancing is sensitive to low back pain and safe to assess. <i>Journal of Biomechanics</i> , <b>2021</b> , 125, 110541	2.9	0
4	Suspension Control Strategies Using Switched Soft Actor-Critic Models for Real Roads. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	0
3	Regularized nonlinear regression for simultaneously selecting and estimating key model parameters: Application to head-neck position tracking. <i>Engineering Applications of Artificial Intelligence</i> , <b>2022</b> , 113, 104974	7.2	0
2	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> , <b>2006</b> , 220, 203-208	0.9	



1 PII-23. *Clinical Pharmacology and Therapeutics*, **2006**, 79, P42-P42

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