

Myung Jin Chung

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

1,639
citations

361045

20
h-index

377514

34
g-index

122
all docs

122
docs citations

122
times ranked

958
citing authors

#	ARTICLE	IF	CITATIONS
1	Repetitive control for the track-following servo system of an optical disk drive. IEEE Transactions on Control Systems Technology, 1998, 6, 663-670.	3.2	131
2	Memoryless stabilization of uncertain dynamic systems with time-varying delayed states and controls. Automatica, 1995, 31, 1349-1351.	3.0	107
3	Observer-based H^∞ controller design for state delayed linear systems. Automatica, 1996, 32, 1073-1075.	3.0	99
4	An LMI approach to H^∞ controller design for linear time-delay systems. Automatica, 1997, 33, 737-739.	3.0	78
5	Robust disturbance observer for the track-following control system of an optical disk drive. Control Engineering Practice, 2004, 12, 577-585.	3.2	74
6	Memoryless H^∞ controller design for linear systems with delayed state and control. Automatica, 1995, 31, 917-919.	3.0	65
7	Robust observer-based H^∞ controller design for linear uncertain time-delay systems. Automatica, 1997, 33, 1749-1752.	3.0	60
8	Adaptive controller of a master-slave system for transparent teleoperation. Journal of Field Robotics, 1998, 15, 465-475.	0.7	59
9	A robust fuzzy logic controller for robot manipulators with uncertainties. IEEE Transactions on Systems, Man, and Cybernetics, 1997, 27, 706-713.	5.5	57
10	Robustness of fuzzy logic control for an uncertain dynamic system. IEEE Transactions on Fuzzy Systems, 1998, 6, 216-225.	6.5	51
11	A Linear Affectâ€“Expression Space Model and Control Points for Mascot-Type Facial Robots. IEEE Transactions on Robotics, 2007, 23, 863-873.	7.3	43
12	Robust H^∞ control with multiple constraints for the track-following system of an optical disk drive. IEEE Transactions on Industrial Electronics, 1998, 45, 638-645.	5.2	35
13	Systematic design and stability analysis of a fuzzy logic controller. Fuzzy Sets and Systems, 1995, 72, 271-298.	1.6	32
14	Path planning with uncalibrated stereo rig for image-based visual servoing under large pose discrepancy. IEEE Transactions on Automation Science and Engineering, 2003, 19, 250-258.	2.4	30
15	3D environment reconstruction using modified color ICP algorithm by fusion of a camera and a 3D laser range finder. , 2009, , .		28
16	Cognitive face analysis system for future interactive TV. IEEE Transactions on Consumer Electronics, 2009, 55, 2271-2279.	3.0	28
17	Robust Online Digital Image Stabilization Based on Point-Feature Trajectory Without Accumulative Global Motion Estimation. IEEE Signal Processing Letters, 2012, 19, 223-226.	2.1	28
18	A method of acoustic landmark extraction for mobile robot navigation. IEEE Transactions on Automation Science and Engineering, 1996, 12, 478-485.	2.4	27

#	ARTICLE	IF	CITATIONS
19	Track-following control using a disturbance observer with asymptotic disturbance rejection in high-speed optical disk drives. IEEE Transactions on Consumer Electronics, 2003, 49, 1178-1185.	3.0	27
20	ILC for non-minimum phase system. International Journal of Systems Science, 1996, 27, 419-424.	3.7	24
21	Urban structure classification using the 3D normal distribution transform for practical robot applications. Advanced Robotics, 2013, 27, 351-371.	1.1	22
22	Generation of Realistic Robot Facial Expressions for Human Robot Interaction. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 443-462.	2.0	19
23	Track-following control for optical disk drives using an iterative learning scheme. IEEE Transactions on Consumer Electronics, 1996, 42, 192-198.	3.0	18
24	Path Planning for Complete and Efficient Coverage Operation of Mobile Robots. , 2007, , .		18
25	Robust direct seek control for high-speed rotational optical disk drives. IEEE Transactions on Consumer Electronics, 1998, 44, 1273-1283.	3.0	17
26	Development of omni-directional mobile robots with mecanum wheels assisting the disabled in a factory environment. , 2008, , .		17
27	Online urban object recognition in point clouds using consecutive point information for urban robotic missions. Robotics and Autonomous Systems, 2014, 62, 1130-1152.	3.0	17
28	A constrained optimization approach to resolving manipulator redundancy. Journal of Field Robotics, 1996, 13, 275-288.	0.7	16
29	3D head tracking and pose-robust 2D texture map-based face recognition using a simple ellipsoid model. , 2008, , .		16
30	Video stabilization for robot eye using IMU-aided feature tracker. , 2010, , .		16
31	Recursive estimation of motion and a scene model with a two-camera system of divergent view. Pattern Recognition, 2010, 43, 2265-2280.	5.1	16
32	Absolute motion and structure from stereo image sequences without stereo correspondence and analysis of degenerate cases. Pattern Recognition, 2006, 39, 1649-1661.	5.1	15
33	LMA based emotional motion representation using RGB-D camera. , 2013, , .		14
34	A Linear Dynamic Affect-Expression Model: Facial Expressions According to Perceived Emotions in Mascot-Type Facial Robots. , 2007, , .		13
35	Fast point cloud segmentation for an intelligent vehicle using sweeping 2D laser scanners. , 2012, , .		13
36	Uncertain robot environment modelling using fuzzy numbers. Fuzzy Sets and Systems, 1994, 61, 53-62.	1.6	12

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37	Efficient rectangle feature extraction for real-time facial expression recognition based on AdaBoost. , 2005, , .		12
38	Compensator design for a dual-stage actuator in the track-following servo system of optical disk drives. IEEE Transactions on Consumer Electronics, 2005, 51, 471-477.	3.0	11
39	An Affect-Expression Space Model of the Face in a Mascot-Type Robot. , 2006, , .		11
40	Non-intrusive eye gaze estimation without knowledge of eye pose. , 0, , .		10
41	Digital Image Stabilization for humanoid eyes inspired by human VOR system. , 2009, , .		9
42	Long-time video stabilization using point-feature trajectory smoothing. , 2011, , .		9
43	Development of a Facial Expression Imitation System. , 2006, , .		8
44	Emotional boundaries for choosing modalities according to the intensity of emotion in a linear affect-expression space. , 2008, , .		8
45	Slam with omni-directional stereo vision sensor. , 0, , .		7
46	Feature matching in omnidirectional images with a large sensor motion for map generation of a mobile robot. Pattern Recognition Letters, 2004, 25, 413-427.	2.6	7
47	Robust multi-view face tracking. , 2005, , .		7
48	Stereo-vision based free space and obstacle detection with structural and traversability analysis using probabilistic volume polar grid map. , 2011, , .		7
49	Real-time plane detection based on depth map from Kinect. , 2013, , .		7
50	Optimal conditions for inverse kinematics of a robot manipulator with redundancy. Robotica, 1995, 13, 95-101.	1.3	6
51	An iterative learning control scheme for manipulators. , 0, , .		6
52	An Iterative Learning Control for Uncertain Systems Using Structured Singular Value. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 660-667.	0.9	6
53	Eye-mouse under large head movement for human-computer interface. , 2004, , .		6
54	Development of Assistive Mobile Robots Helping the Disabled Work in a Factory Environment. , 2008, , .		6

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55	Lifelike facial expression of mascot-type robot based on emotional boundaries. , 2009, , .		6
56	Geometric-featured voxel maps for 3D mapping in urban environments. , 2011, , .		6
57	Traversable ground detection based on geometric-featured voxel map. , 2013, , .		6
58	Efficient 3D terrain mapping based on normal distribution transform grid. , 2014, , .		6
59	Artificial Emotion Generation Based on Personality, Mood, and Emotion for Life-Like Facial Expressions of Robots. International Federation for Information Processing, 2010, , 223-233.	0.4	6
60	A method of indoor mobile robot navigation using acoustic landmarks. , 0, , .		5
61	Learning discriminative multi-scale and multi-position LBP features for face detection based on Ada-LDA. , 2009, , .		5
62	Fast SLAM using polar scan matching and particle weight based occupancy grid map for mobile robot. , 2011, , .		5
63	Sensor-based local homing using Omnidirectional Range and Intensity Sensing System for indoor mobile robot navigation. , 0, , .		5
64	A simple method of finding a visible region for the optimal camera position. , 0, , .		4
65	Sensor Fusion for Omnidirectional Sensor-Based Local Homing Navigation using Fuzzy Arithmetic. Intelligent Automation and Soft Computing, 1998, 4, 215-226.	1.6	4
66	An image-based control scheme for an active stereo vision system. , 0, , .		4
67	Absolute Stereo SFM without Stereo Correspondence for Vision Based SLAM. , 0, , .		4
68	A Linear Affective Space Model based on the Facial Expressions for Mascot-Type Robots. , 2006, , .		4
69	Determining color and blinking to support facial expression of a robot for conveying emotional intensity. , 2008, , .		4
70	Extrinsic calibration between a 3D laser scanner and a camera using PCA method. , 2012, , .		4
71	Probabilistic voxel mapping using an adaptive confidence measure of stereo matching. Intelligent Service Robotics, 2013, 6, 89-99.	1.6	4
72	Rapid SLAM using simple map representation in indoor environment. , 2013, , .		4

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73	Robust ILC with Current Feedback for Uncertain Linear Systems. , 1998, , 193-208.		3
74	New fine seek control for optical disk drives. , 1999, , .		3
75	Image space trajectory generation for image-based visual servoing under large pose error. , 0, , .		3
76	A human-robot interface using vision-based eye gaze estimation system. , 0, , .		3
77	Real-time gaze control of an active head-eye system without calibration. Artificial Life and Robotics, 2002, 6, 175-180.	0.7	3
78	Development of Work Assistant Mobile Robot System for the Handicapped in a Real Manufacturing Environment. , 0, , .		3
79	3D video stabilization for humanoid eyes using vision and inertial sensors inspired by human VOR. , 2010, , .		3
80	How to completely use the PAD space for socially interactive robots. , 2011, , .		3
81	Multi-Scale Descriptor for Robust and Fast Camera Motion Estimation. IEEE Signal Processing Letters, 2013, 20, 725-728.	2.1	3
82	3D world modeling using 3D laser scanner and omni-direction camera. , 2013, , .		3
83	Robust $H/\sub{\hat{z}}$ control with regional stability constraints for the track-following systems of optical disk drives. , 0, , .		2
84	Expansion of Hager Belhumeur Inverse Additive Algorithm to Homographies. , 2006, , .		2
85	Pose-robust face recognition based on texture mapping. , 2008, , .		2
86	Stochastic approach on a simplified OCC model for uncertainty and believability. , 2009, , .		2
87	Robot's emotion generation model for transition and diversity using energy, entropy, and homeostasis concepts. , 2010, , .		2
88	Robot's emotional expression generation based on context information and combination of behavior database. , 2010, , .		2
89	Learning discriminative MspLBP features based on Ada-LDA for multi-class pattern classification. , 2010, , .		2
90	3D video stabilization for a humanoid robot using point feature trajectory smoothing. , 2011, , .		2

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91	Fast vehicle detection using orientation histogram and segmented line projection. , 2012, , .		2
92	Automated robot speech gesture generation system based on dialog sentence punctuation mark extraction. , 2012, , .		2
93	System and software architecture for autonomous surveillance robots in urban environments. , 2012, , .		2
94	Interactive facial robot system on a smart device Enhanced touch screen input recognition and robot's reactive facial expression. , 2013, , .		2
95	Position estimation of landmark using 3D point cloud and trilateration method. , 2014, , .		2
96	Comments on "Quadratic stabilization of continuous time systems with state-delay and norm-bounded time-varying uncertainties". IEEE Transactions on Automatic Control, 1997, 42, 1740-1742.	3.6	1
97	A reliable feature matching method in omnidirectional views for autonomous map generation of a mobile robot. , 0, , .		1
98	Recursive estimation of absolute stereo motion and structure without stereo correspondence. , 0, , .		1
99	Real-Time Multi-View Face Tracking for Human-Robot Interaction. , 0, , .		1
100	3D pose and camera parameter tracking algorithm based on Lucas-Kanade image alignment algorithm. , 2007, , .		1
101	Hierarchical database based on feature parameters for various multimodal expression generation of robot. , 2010, , .		1
102	Online motion segmentation using spatially-constrained J-linkage in dynamic scene. , 2012, , .		1
103	A practical 6D robot pose estimation using GPS and IMU in outdoor. , 2012, , .		1
104	Robust clustering of multi-structure data with enhanced sampling. , 2013, , .		1
105	Fast Online Motion Segmentation through Multi-Temporal Interval Motion Analysis. IEICE Transactions on Information and Systems, 2015, E98.D, 479-484.	0.4	1
106	Robot's Motivational Emotion Model with Value Effectiveness for Social Human and Robot Interaction. Journal of Institute of Control, Robotics and Systems, 2014, 20, 503-512.	0.1	1
107	On Ultimate Boundedness Control Of Uncertain Dynamical Systems Using The Adaptive Bound On The Uncertainty. , 0, , .		0
108	Frequency domain analysis and design of an iterative learning controller under modeling uncertainties. , 0, , .		0

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109	Comments on "A new adaptive control algorithm for robot manipulators in task space". IEEE Transactions on Automation Science and Engineering, 1996, 12, 502-503.	2.4	0
110	Interactive virtual space calibration for teleoperation. , 0, , .		0
111	Self calibration of focal length and rotation parameters using cross ratio. , 0, , .		0
112	Visual tracking for a manipulator using fuzzy rule-based system. , 1999, , .		0
113	A Hybrid Visual Servo System Considering the Workspace Boundary Singularity. , 2006, , .		0
114	Building a mobile platform for spatiotemporal integration of 3D outdoor world models. , 2011, , .		0
115	Hole filled 3D map using mobile robots in the urban environment. , 2011, , .		0
116	Probabilistic voxel mapping using stereo matching confidence. , 2011, , .		0
117	3D mapping in urban environment using geometric featured voxel. , 2011, , .		0
118	Robot's reactive eye movement and facial expression for lifelikeness by using preattentive process. , 2011, , .		0
119	Building wall extraction method using land registration map image. , 2013, , .		0
120	Satellite map based quantitative analysis for 3D world modeling of urban environment. , 2013, , .		0
121	Online multi-target tracking using non-linear motion estimation. , 2014, , .		0