

# Guoxiao Guo

## List of Publications by Year in descending order

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64  
papers

1,223  
citations

331670

21  
h-index

414414

32  
g-index

64  
all docs

64  
docs citations

64  
times ranked

553  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust decentralized nonlinear controller design for multimachine power systems. Automatica, 1997, 33, 1725-1733.	5.0	168
2	Nonlinear output stabilization control for multimachine power systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 46-53.	0.1	108
3	Self-sensing actuation for nanopositioning and active-mode damping in dual-stage HDDs. IEEE/ASME Transactions on Mechatronics, 2006, 11, 328-338.	5.8	55
4	An improved mixed $H_2/H_\infty$ control design for hard disk drives. IEEE Transactions on Control Systems Technology, 2005, 13, 832-839.	5.2	48
5	Modified dual-stage controller for dealing with secondary-stage actuator saturation. IEEE Transactions on Magnetics, 2003, 39, 3587-3592.	2.1	42
6	Modified adaptive feedforward runout compensation for dual-stage servo system. IEEE Transactions on Magnetics, 2000, 36, 3581-3584.	2.1	39
7	Practical implementation of a neural network controller in a hard disk drive. IEEE Transactions on Control Systems Technology, 2005, 13, 146-154.	5.2	38
8	Robust nonlinear coordinated generator excitation and SVC control for power systems. International Journal of Electrical Power and Energy Systems, 2000, 22, 187-195.	5.5	37
9	Feedforward control for reducing disk-flutter-induced track misregistration. IEEE Transactions on Magnetics, 2003, 39, 2103-2108.	2.1	37
10	A dual-stage control design for high track per inch hard disk drives. IEEE Transactions on Magnetics, 2001, 37, 860-865.	2.1	35
11	Radial error propagation issues in self-servo track writing technology. IEEE Transactions on Magnetics, 2002, 38, 2180-2182.	2.1	35
12	Midfrequency disturbance suppression via micro-actuator in dual-stage HDDs. IEEE Transactions on Magnetics, 2002, 38, 2189-2191.	2.1	33
13	A generalized KYP lemma based approach for disturbance rejection in data storage systems. Automatica, 2007, 43, 2112-2118.	5.0	28
14	HDD dual-stage servo-controller design using a $\hat{H}_4$ -analysis tool. Control Engineering Practice, 2004, 12, 241-251.	5.5	27
15	Disturbance Modeling and Control Design for Self-Servo Track Writing. IEEE/ASME Transactions on Mechatronics, 2005, 10, 122-127.	5.8	25
16	Singular Perturbation Control for Vibration Rejection in HDDs Using the PZT Active Suspension as Fast Subsystem Observer. IEEE Industrial Electronics Magazine, 2007, 54, 1375-1386.	2.6	24
17	A PZT micro-actuated suspension for high TPI hard disk servo systems. IEEE Transactions on Magnetics, 2000, 36, 2241-2243.	2.1	23
18	Feedforward Decoupling Control Design for Dual-Actuator System in Hard Disk Drives. IEEE Transactions on Magnetics, 2004, 40, 2080-2082.	2.1	23

#	ARTICLE	IF	CITATIONS
19	Lowering the hump of sensitivity functions for discrete-time dual-stage systems. IEEE Transactions on Control Systems Technology, 2005, 13, 791-797.	5.2	23
20	Optimal multirate control design for hard disk drive servo systems. IEEE Transactions on Magnetics, 1998, 34, 1898-1900.	2.1	22
21	Identification and decentralized control of a dual-actuator hard disk drive system. IEEE Transactions on Magnetics, 2005, 41, 2515-2521.	2.1	22
22	Reset Control for Midfrequency Narrowband Disturbance Rejection With an Application in Hard Disk Drives. IEEE Transactions on Control Systems Technology, 2011, 19, 1339-1348.	5.2	22
23	Comparative analysis on resonance compensation in hdd dual-stage actuation systems. IEEE Transactions on Industrial Electronics, 2003, 50, 1179-1186.	7.9	21
24	Suppressing sensitivity hump in HDD dual-stage servo systems. Microsystem Technologies, 2005, 11, 653-662.	2.0	20
25	Adaptive compensation of microactuator resonance in hard disk drives. IEEE Transactions on Magnetics, 2000, 36, 2247-2250.	2.1	19
26	Design, fabrication, sensor fusion, and control of a micro X&Y stage media platform for probe-based storage systems. Mechatronics, 2009, 19, 1158-1168.	3.3	18
27	Optimization of a magnetic disk drive actuator with small skew actuation. Journal of Applied Physics, 2002, 91, 8709.	2.5	16
28	\$H_2\$ Control for Head Positioning in Axial and Radial Dimensions for Self-Servo Track Writing. IEEE Transactions on Control Systems Technology, 2008, 16, 177-181.	5.2	16
29	A new decentralized robust controller design for multi-area load&frequency control via incomplete state feedback. Optimal Control Applications and Methods, 1998, 19, 345-361.	2.1	15
30	Dual-stage servo with on-slider PZT microactuator for hard disk drives. IEEE Transactions on Magnetics, 2002, 38, 2183-2185.	2.1	15
31	Discrete linear control enhanced by adaptive neural networks in application to a HDD-servo-system. Control Engineering Practice, 2008, 16, 930-945.	5.5	15
32	A Nonlinear Control Scheme for Fast Settling in Hard Disk Drives. IEEE Transactions on Magnetics, 2004, 40, 2086-2088.	2.1	13
33	A generalized KYP lemma based control design and application for 425 kTPI servo track writing. , 2006, , .		12
34	Improved disturbance rejection with online adaptive pole-zero compensation on a $\hat{I}$ -shaped PZT active suspension. Microsystem Technologies, 2009, 15, 1499-1508.	2.0	12
35	PC-based position error signal generation and servo system for a spindstand. IEEE Transactions on Magnetics, 2005, 41, 4315-4322.	2.1	11
36	Nonrepeatable Run-out Rejection Using Online Iterative Control for High-Density Data Storage. IEEE Transactions on Magnetics, 2007, 43, 2029-2037.	2.1	11

#	ARTICLE	IF	CITATIONS
37	Implementation of a servo positioning system on spin stand. , 0, , .		9
38	A gradient-based track-following controller optimization for hard disk drive. IEEE Transactions on Industrial Electronics, 2003, 50, 108-115.	7.9	8
39	A low-turbulence-high-bandwidth actuator for 3.5" hard disk drives. IEEE Transactions on Magnetics, 2000, 36, 2235-2237.	2.1	7
40	Vibration analysis and control design comparison of HDDs using fluid bearing and ball bearing spindles. , 2002, , .		6
41	NONLINEAR MID-FREQUENCY DISTURBANCE COMPENSATION IN HARD DISK DRIVES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 31-36.	0.4	6
42	A Generalized Disturbance Filter Design and its Applications to a Spinstand Servo System with Microactuator. , 2006, , .		6
43	TMR online optimization using quasi-Newton method for HDD servo systems. , 2000, , .		6
44	A DSP based hard disk drive servo test stand. IEEE Transactions on Magnetics, 1998, 34, 480-482.	2.1	5
45	RRO compensation for dual stage servo system. , 0, , .		5
46	A position encoding and decoding scheme for ultra high density magnetic recording. , 0, , .		5
47	A novel in-slider piezoelectric micro-actuator for hard disc drives. , 0, , .		4
48	Implementation of a high performance multirate control system using PC. , 0, , .		4
49	Experimental dynamic characterizations and modelling of disk vibrations for HDDs. ISA Transactions, 2008, 47, 85-93.	5.7	4
50	Asymmetric indirect-driven self-sensing actuation and its application to piezoelectric systems. Transactions of the Institute of Measurement and Control, 2021, 43, 802-811.	1.7	4
51	Modeling and control design of dual-actuator system for hard disk drives. , 0, , .		3
52	A nonlinear track following controller for hard disk drives. , 0, , .		2
53	Vibration analysis and optimal control in self-servo track writer. , 0, , .		2
54	MCK-1 CONTROL STRATEGIES FOR WRITING SERVO TRACKS NARROWER THAN 5 MICRO INCHES. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2003, 2003, 1-5.	0.0	2

#	ARTICLE	IF	CITATIONS
55	Robust periodic disturbance compensation via multirate control. , 2004, , .		2
56	Enhanced disturbance suppression in sampled-data systems and its application to high density data storage servos. Microsystem Technologies, 2007, 13, 911-921.	2.0	2
57	Dealing with Secondary Actuator Saturation in Dual-Stage HDD Servo. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 717-722.	0.4	1
58	Two-Degree-Of-Freedom Control with Dual-stage Actuators for Short-Span Seeking in HDD. , 2003, , .		1
59	Experimental study of disk vibration reduction via stacked disks. Journal of Sound and Vibration, 2007, 301, 226-235.	3.9	1
60	State Initialization of Peak Filter Design in HDD Dual-Stage Servo Control for Smooth Settling Response. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 711-716.	0.4	0
61	Improvement of Seek-Settling Performances by Dynamic Nonlinear Control in Hard Disk Drive Servo Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 145-150.	0.4	0
62	A method for improving the resolution of active and passive balancing schemes for disc drives. Engineering Optimization, 2006, 38, 245-255.	2.6	0
63	Singular Perturbation Control for Vibration Rejection in HDDs with a PZT Active Suspension. , 2006, , .		0
64	NRRO Rejection using Online Iterative Control for High Density Data Storage on a PC-Based Spindrive Servo System. , 2007, , .		0