Zero Phase Error Tracking Algorithm for Digital Control

#	Paper	IF	Citations
1088	Robust motion control with autonomous consideration algorithm of joint torque saturation.		0
1087	Redundant manipulator control with autonomous consideration algorithm of torque saturation.		6
1086	.		3
1085	.		34
1084	Control of Robot Manipulators under Repetitive Tasks -Segmented Repetitive Control Approach.		2
1083	.		4
1082	Design and control of a prototype platform manipulator for workholding and workhandling applications. **1989**, 20, 305-314		5
1081	Robot Path Control with Variable Speed by Preview Control and Adaptive Control. **1990**, 23, 121-126		
1080	Design of a Feedforward Controller for Trajectory Tracking Based on Steady State Error Analysis: Its Application to Robotic Joint Controller. **1990**, 23, 127-132		
1079	Discrete-Time Adaptive Control for Continuous-Time Systems Using Limiting-Zero Model and Its Application. **1990**, 23, 113-118		
1078	. **1990**, 20, 1115-1124		54
1077	. **1990**, 10, 16-20		208
1076	Steady-State and Stochastic Performance of a Modified Discrete-Time Prototype Repetitive Controller. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1990**, 112, 35-41	1.6	71
1075	. **1990**, 6, 735-745		49
1074	. **1991**,		2
1073	.		11
1072	Variable-Gain Cross-Coupling Controller for Contouring. **1991**, 40, 371-374		279

1053	High-speed end mill boring and rounded corner cutting.		2
1052	A self-tuning adaptive feed-forward control for a retrofit milling machine. **1994**, 4, 565-580		2
1051	Accurate Motion Controller Design Based on an Extended Pole Placement Method and a Disturbance Observer. **1994**, 43, 367-372		22
1050	. *IEEE Transactions on Control Systems Technology*, **1994**, 2, 382-391	4.8	46
1049	Perfect tracking of non minimum phase process. Application to flexible joint robot. **1994**, 27, 729-734		
1048	Trajectory Preshaping for High-Speed Articulated Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1995**, 117, 304-310	1.6	14
1047	Extended Pole Placement Method With Noncausal Reference Model for Digital Servo-Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1995**, 117, 641-644	1.6	5
1046	Active Sound Attenuation in Finite-Length Ducts Using Close-Form Transfer Function Models. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1995**, 117, 143-154	1.6	18
1045	Real-time vision-based tracking control of an unmanned vehicle. **1995**, 5, 973-991		18
1044	Application of self-tuning feed-forward and cross-coupling control in a retrofitted milling machine. **1995**, 35, 577-591		16
1043	Effect of Low-Friction Guideways and Lead-Screw Flexibility on Dynamics of High-Speed Machines. **1995**, 44, 353-356		33
1042	Precision tracking control of non-minimum phase systems with zero phase error. **1995**, 61, 791-807		48
1041	.		1
1040	Linear discrete-time H/sub /spl infin//-optimal tracking with preview.		
1039	Optimal feedforward tracking control of linear motors for machine tool drives.		2
1038	Robust tracking controller design for high-speed machining.		0
1037	Design of bi-causal inverse models for non-minimum phase systems and its applications to precision tracking control.		
1036	. **1995**, 40, 743-747		12

1017	Accurate tracking control of linear synchronous motor machine tool axes. **1996**, 6, 507-521	86
1016	Robust digital tracking controller design for high-speed positioning systems. *Control Engineering Practice*, **1996**, 4, 527-536	3.9 39
1015	Cross-coupled biaxial step control for CNC EDM. **1996**, 36, 1363-1383	4
1014	Robustness properties of repetitive controllers. **1996**, 65, 939-961	8
1013	Control of Cutting Force for End Milling Processes Using an Extended Model Reference Adaptive Control Scheme. **1996**, 118, 339-347	29
1012	Using preaction with infinite or finite preview for perfect or almost perfect digital tracking.	6
1011	Frequency response based feedforward control design with uncertainty considerations. **1997**,	5
1010	Control of Machine Tools. **1997**, 119, 749-755	77
1009	High performance robust motion control of machine tools: an adaptive robust control approach and comparative experiments. **1997**,	1
1008	Modeling and control of magnetically levitated rotating machines. **1997**,	3
1007	Refining the Shuttle training aircraft controller.	1
1006	Robust robot manipulator control with autonomous consideration algorithm of torque saturation. **1997**, 12, 755-769	2
1005	Mechatronics for computer data storage devices.	2
1004	Modified AFC runout cancellation and its influence on track following.	4
1003	Zero Phase Error Tracking System With Arbitrarily Specified Gain Characteristics. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1997**, 119, 260-264	1.6 10
1002	System Identification and Adaptive Control of the Multi-Axis Bending and Twisting Process. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1997**, 119, 782-790	1.6 7
1001	Industrial Perspective on Robust Control: Application to Storage Systems. **1997**, 30, 9-20	
1000	Adaptive Zero Phase Error Tracking Controller with Precision Tracking Performance. **1997**, 30, 837-842	1

999	Adaptive Robust Control of Non linear Systems: Effective Use of Information. **1997**, 30, 873-878		4
998	A study on position control of piezoelectric actuators.		15
997	Linear discrete-time H/sub /spl infin//-optimal tracking with preview. **1997**, 42, 270-276		56
996	An effective pole-zero cancellation in feedforward controllers for nonminimum phase systems. **1997**,		
995	Adaptive robust contour tracking of machine tool feed drive systems-a task coordinate frame approach. **1997**,		15
994	High performance adaptive robust control of nonlinear systems: a general framework and new schemes.		66
993	High-performance robust motion control of machine tools: an adaptive robust control approach and comparative experiments. *IEEE/ASME Transactions on Mechatronics*, **1997**, 2, 63-76	5.5	172
992	Reducing the manufacturing costs associated with hard disk drives-a new disturbance rejection control scheme. *IEEE/ASME Transactions on Mechatronics*, **1997**, 2, 77-85	5.5	24
991	High-speed and high-precision motion control with an optimal hybrid feedforward controller. *IEEE/ASME Transactions on Mechatronics*, **1997**, 2, 110-122	5.5	44
990	A receding time horizon optimal feedrate control with cross-coupled structure for multiaxial systems. **1997**, 11, 419		2
989	Improved fuzzy sliding-mode control for a linear servo motor system. *Control Engineering Practice*, **1997**, 5, 219-227	3.9	6
988	CNC machine tool interpolator with path compensation for repeated contour machining. **1998**, 30, 55-62		33
987	Design for Precision: Current Status and Trends. **1998**, 47, 557-586		155
986	.		14
985	Intelligent control for handling motion nonlinearity in a retrofitted machining table. **1998**, 145, 403-408		1
984	Industrial perspective on robust control: Application to storage systems. **1998**, 22, 47-58		1
983	A method of tool path compensation for repeated machining process. **1998**, 38, 205-213		36
982	A feedforward controller by modified series approximation. *IEEE/ASME Transactions on Mechatronics*, **1998**, 3, 249-251	5.5	6

981	Application of model-matching techniques to feedforward active noise controller design. *IEEE Transactions on Control Systems Technology*, **1998**, 6, 33-42	4.8	17
980	Use of accelerometer for precision motion control of linear motor driven positioning system.		9
979	Advanced motion control in redundant motion systems.		1
978	Predictive and time delay control of transmission mechanisms. **1998**,		
977	Comparison of two feedforward design methods aiming at accurate trajectory tracking of the end point of a flexible robot arm. *IEEE Transactions on Control Systems Technology*, **1998**, 6, 2-14	4.8	55
976	Advanced Motion Control: An Industrial Perspective. **1998**, 4, 278-293		85
975	Nonlinear system identification using genetic algorithms with application to feedforward control design. **1998**,		
974	Contour tracking of machine tool feed drive systems. **1998**,		9
973	Discrete-time prototype repetitive controllers considering pole-assignment and its application.		
972	A general framework of coordinated motion control subjected to actuator saturation. **1998**,		
971	A Tracking Controller for Linear Time-Varying Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1998**, 120, 111-116	1.6	4
970	Linear Motor Ripple Compensation Using Position-Triggered Repetitive Control. **1998**, 31, 353-357		1
969	Control of Linear Motors for Machine Tool Feed Drives: Experimental Investigation of Optimal Feedforward Tracking Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1998**, 120, 137-142	1.6	3
968	Optimal precision tracking control of discrete time nonminimum phase systems. **1999**,		
967	Discrete-time LQ optimal repetitive control. **1999**,		2
966	Input-output data based tracking control. **1999**,		
965	Tangential-Contouring Controller for Biaxial Motion Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1999**, 121, 126-129	1.6	61
964	Theory and Applications of the Robust Cross-Coupled Control Design. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1999**, 121, 524-530	1.6	55

963	Real-time compensation of two-dimensional contour error in CNC machine tools. **1999**,		11
962	Synthesis and stability of a multirate repetitive learning controller. **1999**,		
961	Synthesis, stability analysis, and experimental implementation of a multirate repetitive learning controller. **1999**,		1
960	Disturbance observer and feedforward design for a high-speed direct-drive positioning table. *IEEE Transactions on Control Systems Technology*, **1999**, 7, 513-526	4.8	383
959	Analysis and design of the integrated controller for precise motion systems. *IEEE Transactions on Control Systems Technology*, **1999**, 7, 706-717	4.8	40
958	Reducing resonances in profiling machine tools by generating smooth commands.		
957	Closed loop pneumatic position control using discrete time model regulation. **1999**,		1
956	Adaptive calibration of feedforward controllers for laser profiling machines. **1999**,		2
955	Multi-rate feedforward tracking control for plants with nonminimum phase discrete time models. **1999**,		
954	Continuous zero phase error tracking controller with gain error compensation. **1999**,		
953	Pre-filter design for high speed contouring machines.		1
952	Rejection of disk drive vibration and shock disturbances with a disturbance observer. **1999**,		7
951	Design of discrete-time repetitive control system for pole placement and application. *IEEE/ASME Transactions on Mechatronics*, **1999**, 4, 110-118	5.5	34
950	An optimal and adaptive design of the feedforward motion controller. *IEEE/ASME Transactions on Mechatronics*, **1999**, 4, 428-439	5.5	44
949	Proposal of perfect tracking and perfect disturbance rejection control by multirate sampling and applications to hard disk drive control.		22
948	Solving discrete-time nonlinear servomechanism problem with feedforward neural networks.		1
947	Generalized Optimal Zero Phase Error Tracking Controller Design. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1999**, 121, 165-170	1.6	10
946	Cost effective repetitive controllers for data storage devices. **1999**, 32, 891-896		1

945	High performance perfect tracking control based on multirate feedforward / feedback controllers with generalized sampling periods. **1999**, 32, 1079-1084		1
944	Mechatronics: From The 20th to 21st Century. **2000**, 33, 1-10		10
943	Velocity Estimator Based Compensation for Loudspeakers. **2000**, 33, 419-424		
942	Precise Speed Control of a Travelling Wave Ultrasonic Motor for Prosthetic Hands. **2000**, 33, 401-406		
941	Adaptive compensation of microactuator resonance in hard disk drives. **2000**, 36, 2247-2250		11
940	Machining parameters for an intelligent machining system for composite laminates. **2000**, 40, 415-426		86
939	High speed servo control of multi-axis machine tools. **2000**, 40, 539-559		67
938	Modified adaptive feedforward runout compensation for dual-stage servo system. **2000**, 36, 3581-3584		29
937	Coordination control and deposition planning for improving deposition accuracy in layered manufacturing process.		1
936	Repetitive learning controller for CVCF PWM DC/AC converter.		3
935	Experimental comparison of the performance of different chain conveyor controllers. **2000**, 214, 361-370		4
934	A cost effective repetitive controller and its design. **2000**,		3
933	Robust high speed tracking servo system for optical disk system. **2000**,		19
932	.		0
931	Improved track following in magnetic disk drives using a disturbance observer. *IEEE/ASME Transactions on Mechatronics*, **2000**, 5, 3-11	5.5	108
930	New hybrid controller for systems with deterministic uncertainties. *IEEE/ASME Transactions on Mechatronics*, **2000**, 5, 342-348	5.5	9
929	. **2000**, 16, 36-45		19
928	A new approach to bi-axial cross-coupled control.		1

927	A ZPET-repetitive speed controller for ultrasonic motors.		4
926	Discrete-time repetitive control system with multiple periods. **2000**,		8
925	Proposal of seeking control of hard disk drives based on perfect tracking control using multirate feedforward control. **2000**,		29
924	The design of precise motion systems by applying both the advanced controllers and the interpolators. **2000**,		5
923	Position control of XY table in CNC machining center with non-rigid ballscrew. **2000**,		6
922	Design of precise multi-axis motion control systems. **2000**,		1
921	Robust performance control of electrohydraulic actuators for electronic cam motion generation. *IEEE Transactions on Control Systems Technology*, **2000**, 8, 220-227	4.8	36
920	Modified FIR filter with phase compensation technique to feedforward active noise controller design. *IEEE Transactions on Industrial Electronics*, **2000**, 47, 444-453	8.9	8
919	Digital repetitive learning controller for three-phase CVCF PWM inverter. *IEEE Transactions on Industrial Electronics*, **2001**, 48, 820-830	8.9	113
918	Contouring control of machine tool feed drive systems: a task coordinate frame approach. *IEEE Transactions on Control Systems Technology*, **2001**, 9, 130-139	4.8	167
917	A New Approach of Coordinated Motion Control Subjected to Actuator Saturation. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2001**, 123, 496-504	1.6	7
916	. *IEEE Transactions on Industrial Electronics*, **2001**, 48, 636-644	8.9	176
915	Robust feedforward tracking servo system for optical disk recording system.		14
914	A dual-stage control algorithm for magnetic disk drives based on coarse motion prediction.		
913	Iterative Learning Control for Nonlinear Nonminimum Phase Plants1. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2001**, 123, 21-30	1.6	20
912	Comparison of Two Iterative Learning Concepts Applied on a Manipulator with Cogging Force Disturbances. **2001**, 34, 71-76		
911	High-speed contouring using a novel dynamic interpolation mechanism. **2001**, 41, 773-794		7
910	High speed CNC system design. Part I: jerk limited trajectory generation and quintic spline interpolation. **2001**, 41, 1323-1345		381

909	Torsional displacement compensation in position control for machining centers. *Control Engineering Practice*, **2001**, 9, 79-87	3.9	21
908	High speed CNC system design. Part II: modeling and identification of feed drives. **2001**, 41, 1487-1509		153
907	High speed CNC system design. Part III: high speed tracking and contouring control of feed drives. **2001**, 41, 1637-1658		98
906	. **2001**,		15
905	Analysis and comparison of resonance compensation in dual-stage actuation system of HDDs. **2001**,		1
904	Iterative learning control with advanced output data for nonminimum phase systems. **2001**,		1
903	Multi-level optimization techniques for designing digital input shapers. **2001**,		11
902	Pitch control of the space shuttle training aircraft. *IEEE Transactions on Control Systems Technology*, **2001**, 9, 542-551	4.8	8
901	FUZZY ADAPTIVE CONTROL OF NONLINEAR PROCESSES WITH FEEDFORWARD COMPENSATOR AND ITS APPLICATION. **2002**, 33, 171-187		1
900	Noise suppression in buffer-state iterative learning control, applied to a high precision wafer stage.		8
899	Concurrent Design of Input Shaping and Proportional Plus Derivative Feedback Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2002**, 124, 398-405	1.6	36
898	Synthesis, Stability Analysis, and Experimental Implementation of a Multirate Repetitive Learning Controller. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2002**, 124, 668-674	1.6	8
897	ADVANCED DIGITAL MOTION CONTROL BASED ON MULTIRATE SAMPLING CONTROL. **2002**, 35, 331-336		0
896	NONLINEAR INTERNAL MODEL CONTROL FOR MISO SYSTEMS BASED ON LOCAL LINEAR NEURO-FUZZY MODELS. **2002**, 35, 303-308		4
895	Robust motion control with the consideration algorithm of joint torque saturation for a redundant manipulator. **2002**, 16, 345-359		3
894	Design of feedforward filters for improving tracking performances of existing feedback control systems. **2002**,		
893	Unified robust zero-error tracking control of CVCF PWM converters. **2002**, 49, 492-501		14
892	Robust feedforward track following control system for an optical disk.		3

891	Robust two degree-of-freedom add-on controller design for automatic steering. *IEEE Transactions on Control Systems Technology*, **2002**, 10, 137-148	4.8	46
890	Predictive control with enhanced robustness for precision positioning in frictional environment. *IEEE/ASME Transactions on Mechatronics*, **2002**, 7, 385-392	5.5	6
889	Contouring control of biaxial systems based on polar coordinates. *IEEE/ASME Transactions on Mechatronics*, **2002**, 7, 329-345	5.5	64
888	Estimation of the contouring error vector for the cross-coupled control design. *IEEE/ASME Transactions on Mechatronics*, **2002**, 7, 44-51	5.5	165
887	High-performance servo systems based on multirate sampling control. *Control Engineering Practice*, **2002**, 10, 773-781	3.9	35
886	Mechatronics: from the 20th to 21st century. *Control Engineering Practice*, **2002**, 10, 877-886	3.9	50
885	Tracking position control of piezoelectric actuators for periodic reference inputs. **2002**, 12, 669-684		45
884	A novel cross-coupling control design for Bi-axis motion. **2002**, 42, 1539-1548		97
883	A tool-path control scheme for five-axis machine tools. **2002**, 42, 79-88		33
882	Identification of acceleration deceleration profile of feed drive systems in CNC machines. **2003**, 43, 441-451		32
881	Implementation of a fast tool servo with repetitive control for diamond turning. **2003**, 13, 243-257		25
880	Trajectory planning for the tracking control of systems with unstable zeros. **2003**, 13, 127-139		10
879	Comparative analysis on resonance compensation in HDD dual-stage actuation systems. *IEEE Transactions on Industrial Electronics*, **2003**, 50, 1179-1186	8.9	16
878	. *IEEE Transactions on Control Systems Technology*, **2003**, 11, 375-382	4.8	73
877	Digital repetitive controlled three-phase PWM rectifier. **2003**, 18, 309-316		112
876	A design method of perfect tracking control for discrete-time systems using multirate control.		
875	Robust feedforward track following control system for an optical disk drive system.		4
874	Synchronizing dual-drive gantry of chip mounter with LQR approach.		3

873	Discrete-Time Adaptive Repetitive Control and Its Application to a Linear BLDC Motor. **2003**,		1
872	Control of a flexible manipulator tip using a multirate repetitive learning controller based on filtered tip reference input.		
871	Design of a Repetitive Control System for a Piezoelectric Actuator Based on the Inverse Hysteresis Model. **2003**,		
870	Multirate repetitive control and applications.		7
869	Time-frequency analysis of a motion system with learning control.		10
868	Robust tracking servo system considering force disturbance for optical disk recording system.		1
867	Robust Perfect Tracking Control With Discrete Sliding Mode Controller. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2003**, 125, 27-32	1.6	23
866	Model-based feedforward for motion systems.		22
865	Phase correction for learning feedforward control.		
864	High Speed Motion Control Method of Industrial Robot Based on Dynamic Torque Compensation and Two-Degrees-of-Freedom Control System. *IEEJ Transactions on Industry Applications*, **2003**, 123, 525-532	0.2	18
863	Positioning and Tracking Control of an X-Y Table with Sliding Mode Control. **2003**, 36, 157-162		1
862	A new discrete-time voltage controller based on the internal model principle for three-phase voltage source PWM inverters with /spl Delta/Y output transformer.		2
861	Control of a Non-Orthogonal Reconfigurable Machine Tool. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2004**, 126, 397-405	1.6	6
860	Perfectly Matched Feedback Control and Its Integrated Design for Multiaxis Motion Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2004**, 126, 547-557	1.6	35
859	Advanced controller design and implementation of a sensorized microgripper for micromanipulation. **2004**,		1
858	Design and implementation of command and friction feedforward control for CNC motion controllers. **2004**, 151, 13-20		21
857	Fractional Order Disturbance Observer for Robust Vibration Suppression. **2004**, 38, 355-367		52
856	Model-based controller design for machine tool direct feed drives. **2004**, 44, 465-477		45

855	Two-degree-of-freedom ℍ-optimal tracking with preview. *Automatica*, **2004**, 40, 155-162	5.7	15
854	. *IEEE Transactions on Control Systems Technology*, **2004**, 12, 12-20	4.8	22
853	Design of feedforward filters for improving tracking performances of existing feedback control systems. *IEEE Transactions on Control Systems Technology*, **2004**, 12, 742-749	4.8	7
852	High performance motion control of linear motors based on multirate adaptive robust control.		0
851	.		
850	Designing Robust Repetitive Controllers. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2004**, 126, 865-872	1.6	18
849	The integrated linear and nonlinear motion control design for precise CNC machine tools.		2
848	A survey of repetitive control.		25
847	Improving contour accuracy by Fuzzy-logic enhanced cross-coupled precompensation method. **2004** , 20, 65-76		55
846	Switching based repetitive control for hard disk drives: experiments on RIDR and RPTC methods.		3
845	Robust tracking control of optical disk recording system based on ZPET control and sudden disturbance observer.		
844	Experimental study of time-frequency based ILC.		
843	On noise- and period-time sensitivity in high order repetitive control. **2004**,		7
842	Optimal Cross-Coupled Synchronizing Control of Dual-Drive Gantry System for a SMD Assembly Machine. **2004**, 47, 939-945		24
841	Comparison of Standard and Lifted ILC on a Motion System. **2004**, 37, 205-210		2
840	RRO COMPENSATION OF HARD DISK DRIVES WITH MULTIRATE REPETITIVE PTC. **2005**, 38, 127-132		1
839	Precision Tracking Controller Design for High Speed Feed Drives. **2005**, 657		5
838	Digital repetitive plug-in controller for odd-harmonic periodic references and disturbances. *Automatica*, **2005**, 41, 153-157	5.7	75

837	Theory and application of a combined self-tuning adaptive control and cross-coupling control in a retrofit milling machine. **2005**, 15, 193-211		49
836	Tracking and contour error control in CNC servo systems. **2005**, 45, 301-326		114
835	Adaptive interpolation scheme for NURBS curves with the integration of machining dynamics. **2005**, 45, 433-444		102
834	New Control Techniques Based on State Space Observers for Improving the Precision and Dynamic Behaviour of Machine Tools. **2005**, 54, 393-396		21
833	Trajectory planning and feedforward design for electromechanical motion systems. *Control Engineering Practice*, **2005**, 13, 145-157	3.9	165
832	Demonstration of the internal model principle by digital repetitive control of an educational laboratory plant. **2005**, 48, 73-80		59
831	A loop shaping perspective for tuning controllers with adaptive feedforward cancellation. **2005**, 29, 27-40		40
830	A design based on final-state control for residual vibrationless seeking in hard disk drives. **2005**, 11, 688-695		4
829	Model-based reference trajectory generation for tip-based learning controller. **2005**, 19, 357-363		4
828	Ein neues Vorfilter zur Verbesserung des Folgeverhaltens von Bewegungsregelungen. **2005**, 122, 308-313		
827	Zero phase two-degrees of freedom H/sub /spl infin// robust tracking control for permanent magnet linear synchronous motor.		
826	.		1
825	Robust internal model control with feedforward controller for a high-speed motion platform. **2005**,		3
824	Adaptive nonlinear contour coupling control for a machine tool system.		2
823	The influence of disturbances in iterative learning control.		2
822	A simplified approach to the design of nonlinear disturbance observer for axial motion systems.		
821	Improvement of the Performance in Machine Tools by Means of State Space Control Strategies.		2
820	A Two Parameter Robust Linear Parameter Varying Repetitive Control Approach to Variable Speed Electronic CAM Follower Problem. **2005**, 109		0

819	Modeling and Controller Tuning Techniques for Feed Drive Systems. **2005**, 669		16
818	A minimax approach to robust repetitive learning control.		0
817	Multirate adaptive robust control for discrete-time non-minimum phase systems and application to linear motors. *IEEE/ASME Transactions on Mechatronics*, **2005**, 10, 371-377	5.5	30
816	Identification and control of a sensorized microgripper for micromanipulation. *IEEE/ASME Transactions on Mechatronics*, **2005**, 10, 601-606	5.5	22
815	Laser beam raster scan under variable process speed - an application of time varying model reference repetitive control system.		
814	Force sensorless robust tracking servo system suppressing periodic disturbance and sudden disturbance for optical disk system. **2005**,		3
813	Power amplifier design in magnetic suspension system. **2005**,		
812	On real-time contour error estimation for contour following tasks.		7
811	Application of active disturbance rejection to tracking control of a fast tool servo system.		1
810	A Three-Phase PWM Inverter For Double Conversion UPS That Complies With the Standard IEC 62040-3.		0
809	Concerning "Odd-harmonic digital repetitive control of a single-phase current active filter". **2005**, 20, 511-513		3
808	Learning-based identification and iterative learning control of direct-drive robots. *IEEE Transactions on Control Systems Technology*, **2005**, 13, 537-549	4.8	28
807	On the tracking performance improvement of optical disk drive servo systems using error-based disturbance observer. *IEEE Transactions on Industrial Electronics*, **2005**, 52, 270-279	8.9	48
806	Perfect tracking control using multirate control in magnetic levitation system.		
805	Zero-phase odd-harmonic repetitive controller for a single-phase PWM inverter. **2006**, 21, 193-201		121
804	Design and Implementation of a New Approach Based on the Error Feedforward Compensation for Motion Controller. **2006**,		1
803	Removing non-repetitive disturbances in iterative learning control by wavelet filtering. **2006**,		4
802	Robust tracking servo system considering force disturbance for the optical disk recording system. *IEEE Transactions on Industrial Electronics*, **2006**, 53, 838-847	8.9	41

801	Development of command-based iterative learning control algorithm with consideration of friction, disturbance, and noise effects. *IEEE Transactions on Control Systems Technology*, **2006**, 14, 511-518	4.8	30
800	The Motion Message Estimator in Real-Time Network Control Systems. **2006**,		1
799	Digital PLL-based adaptive repetitive control.		16
798	Design and Control of Fast Tool Servo for Boring of Engine Piston Pin Holes. **2006**, 1007		1
797	Nominal and Robust Feedforward Design With Time Domain Constraints Applied to a Wafer Stage. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2006**, 128, 204-215	1.6	16
796	THE WINDUP PROBLEM IN REPETITIVE CONTROL: A SIMPLE ANTI-WINDUP STRATEGY. **2006**, 39, 307-311		2
795	Hierarchical optimal force□position□contour control of machining processes. *Control Engineering Practice*, **2006**, 14, 909-922	3.9	8
794	Virtual Computer Numerical Control System. **2006**, 55, 399-402		26
793	Precision tracking control of a horizontal arm coordinate measuring machine in the presence of dynamic flexibilities. *International Journal of Advanced Manufacturing Technology*, **2006**, 27, 960-968	3.2	5
792	Position command shaping control in a retrofitted milling machine. **2006**, 46, 293-303		21
791	Virtual CNC system. Part II. High speed contouring application. **2006**, 46, 1124-1138		102
790	Virtual CNC system. Part I. System architecture. **2006**, 46, 1107-1123		74
789	Motion stages for electronic packaging design and control. **2006**, 13, 51-61		29
788	Robust feedforward control system considering sudden disturbance for optical disk recording system. **2006**, 156, 60-68		
787	The Application of ZPETC Based on Optimal Design of L2-Norm in Servo Tracking Control. **2006**,		
786	Adaptive Contouring Control for High-Accuracy Tracking Systems. **2006**,		3
785	Iterative learning control with advanced output data for nonlinear non-minimum phase systems. **2006**, 37, 1051-1058		4
784	Contour Controller Design for Two-Dimensional Stage System with Friction. **2006**, 505-507, 1267-1272		1

783	Study on the Compound Fuzzy Motion Control for the Ultra Precision Machine Tools. **2006**, 315-316, 813-816		
782	Iterative Learning Control and Repetitive Control in Hard Disk Drive Industry - A Tutorial. **2006**,		21
781	Zero Phase Error Robust Controller Design Based on Neural Compensation. **2006**,		
780	Robust Tracking Control of Optical Disk Recording System based on Sudden Disturbance Observer. **2006**,		6
779	Settle time performance comparisons of stable approximate model inversion techniques. **2006**,		8
778	Model Inversion Architectures for Settle Time Applications with Uncertainty. **2006**,		11
777	Position Synchronized Control of Dual Linear Motors Servo System Using Fuzzy Logic. **2006**,		0
776	Adaptive-repetitive control of a hard disk drive. **2007**,		10
775	Torsion Vibration Analysis of Lead-screw Feed Drives with Changeable Table Position and Work-piece Mass. **2007**,		2
774	A Novel Repetitive Controlled 3-Phase CVCF PWM Inverter for UPS. **2007**,		2
773	High Performance Motion Tracking Control for Electronic Manufacturing. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2007**, 129, 767-776	1.6	26
772	Precision Motion Control Methodology for Complex Contours. **2007**, 129, 1060-1068		13
771	Tracking Control of Nonminimal Phase System Without using Preview Information of the Desired Output. **2007**,		2
770	Research on Robust Control Strategy for High-Accuracy Hydraulic Flight Motion Simulator. **2007**,		1
769	High-Speed Tracking Servo Using Zero Phase Error Tracking-Feed-Forward Method for Professional-Use Optical Disks over 10000 rpm. **2007**, 46, 3765-3770		16
768	Optimal Design of Spline-Based Feedforward for Trajectory Tracking. **2007**,		5
767	Characterization and Compensation of Disturbances Caused by Head-Disk Contact in Hard Disk Drives. **2007**,		2
766	. **2007**,		1

765	Fixed Structure Feedforward Controller Tuning Exploiting Iterative Trials, Applied to a High-Precision Electromechanical Servo System. **2007**,		6
764	DEALING WITH PERIODIC DISTURBANCES IN CONTROLS OF MECHANICAL SYSTEMS. **2007**, 40, 187-195		
763	. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 2120-2136	8.9	46
762	Contouring Control of Smooth Paths for Multiaxis Motion Systems Based on Equivalent Errors. *IEEE Transactions on Control Systems Technology*, **2007**, 15, 1151-1158	4.8	66
761	Precision Motion Control Methodology for Complex Contours. **2007**,		
760	Compensation of Dominant Frequency Components of Nonrepeatable Disturbance in Hard Disk Drives. **2007**, 43, 3756-3762		19
759	Modeling and Identification for High-Speed Milling Machines. **2007**,		
758	Two-mode ILC with pseudo-downsampled learning in high frequency range. **2007**, 80, 349-362		13
757	Design of Tracking Controller for Holographic Digital Data Storage. **2007**,		
756	Research of Control of Two-Degree-of-Freedom Pneumatic Trajectory Tracking System. **2007**,		
755	Two-Degree-of-Freedom Based Cross-Coupled Control for High-Accuracy Tracking Systems. **2007**,		2
754	Combined Feedforward/Feedback Control of Atomic Force Microscopes. **2007**,		31
753	Coordination Control of Positioning and Deposition in Layered Manufacturing. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 651-659	8.9	11
752	Motion Controller Design for Contour-Following Tasks Based on Real-Time Contour Error Estimation. **2007**, 54, 1686-1695		111
751	Unified Approximate Tracking Control of Linear Systems with Unacceptable Zeros. **2007**, 19, 239-250		2
750	Design of noise and period-time robust high-order repetitive control, with application to optical storage. *Automatica*, **2007**, 43, 2086-2095	5.7	114
749	Rapid identification technique for virtual CNC drives. **2007**, 47, 1381-1392		27
748	Biaxial contouring control with friction dynamics using a contour index approach. **2007**, 47, 1542-1555		49

747	Adaptive parameter identification of servo control systems with noise and high-frequency uncertainties. *Mechanical Systems and Signal Processing*, **2007**, 21, 1437-1451	7.8	14
746	Disturbance-observer-based adaptive feedforward cancellation of torque ripples in harmonic drive systems. **2007**, 90, 95-106		16
745	Enhanced disturbance suppression in sampled-data systems and its application to high density data storage servos. **2007**, 13, 911-921		2
744	Pseudo-downsampled iterative learning control. **2008**, 18, 1072-1088		12
743	Iterative learning control with wavelet filtering. **2008**, 18, 1052-1071		10
742	Performance improvement of repetitive controlled PWM inverters: A phase-lead compensation solution. **2008**, 38, n/a-n/a		12
741	Short-span seeking control of hard disk drive with vibration suppression PTC. **2008**, 162, 66-72		1
740	Iterative learning control and repetitive control in hard disk drive industry A tutorial. **2008**, 22, 325-343		96
739	Measuring the higher order sinusoidal input describing functions of a non-linear plant operating in feedback. *Control Engineering Practice*, **2008**, 16, 101-113	3.9	16
738	Dealing with periodic disturbances in controls of mechanical systems. **2008**, 32, 193-199		59
737	Adaptive two-degree-of-freedom control of feed drive systems. **2008**, 48, 437-445		10
736	Contouring accuracy improvement using cross-coupled control and position error compensator. **2008**, 48, 1444-1453		70
735	Analysis and applications of the motion message estimator for network control systems. **2008**, 10, 45-54		7
734	Design of an Optimal Unknown Input Observer for Load Compensation in Motion Systems. **2008**, 3, 204-215		8
733	ERROR SPACE MOTION CONTROL METHODOLOGY FOR COMPLEX CONTOURS. **2008**, 7, 20-28		5
732	Adaptive Iterative Learning Control for High Precision Motion Systems. *IEEE Transactions on Control Systems Technology*, **2008**, 16, 1075-1082	4.8	55
731	Linear Phase Lead Compensation Repetitive Control of a CVCF PWM Inverter. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 1595-1602	8.9	148
730	Analysis and design of repetitive controller for harmonic elimination in PWM voltage source inverter systems. **2008**, 1, 497		47

729	Nonlinear dynamic contouring control for biped robot walking. **2008**,		
728	. **2008**,		2
727	A calculation method on dynamic force feedback in complex free-form contour pre-generation. **2008**,		0
726	A novel algorithm for unknown periodic disturbance cancellation in HDDs. **2008**,		2
725	Position loop-based cross-coupled control for high-speed machining. **2008**,		2
724	Walking pattern generation for Humanoid robots with LQR and feedforward control method. **2008**,		2
723	Single rate fine perfect tracking controller for high speed optical disk system. **2008**,		0
722	Controller Design Procedure for Two-Mass Systems With Single Flexible Mode. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2008**, 130,	1.6	2
721	Fixed Structure Feedforward Controller Design Exploiting Iterative Trials: Application to a Wafer Stage and a Desktop Printer. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2008**, 130,	1.6	81
720	RRO compensation of hard disk drives with RPTC considering correlation of adjacent tracks. **2008**,		
719	The effect of nonminimum-phase zero locations on the performance of feedforward model-inverse control techniques in discrete-time systems. **2008**,		41
718	Adaptive Compensation of Spatial Contour Error Based on Neural Networks in Three-Axis Machining. **2008**, 392-394, 7-12		
717	High-Speed Recording up to 15,000 rpm Using Thin Optical Disks. **2008**, 47, 5822-5827		23
716	Experimental studies on a micromanipulator for micro/nano manipulation. **2008**,		
715	Adaptive ZPETC method for dual-stage actuator controller design in miniaturized optical disc drive. **2008**,		2
714	Taylor series expansion error compensation for a bi-axial CNC machine. **2008**,		0
713	Head-disk spacing control for an advanced rotary tester. **2008**,		
712	Robust high-order repetitive control. **2008**,		3

711	A Novel Settling Controller for Dual-Stage Servo Systems. **2008**, 44, 3757-3760	4
710	Semi-automatic tuning of PID gains for Atomic Force Microscopes. **2008**,	31
709	. **2008**,	
708	Development of Cutting Device with Enlargement Mechanism of Displacement -Application of Non-Circle Cutting-. **2008**, 2, 474-481	1
707	Robust Discrete-Time Output Tracking Controller Design for Nonminimum Phase Systems. **2008**, 2, 950-961	4
706	Design of Seeking Control Based on Two-Degree-of-Freedom Controller Using Frequency Shaped Final-State Control. **2008**, 41, 1803-1808	1
705	Nano-Positioning of a Electromagnetic Scanner with a MEMS Capacitive Sensor. **2008**, 41, 3130-3135	
704	Architectures for Tracking Control in Atomic Force Microscopes. **2008**, 41, 8236-8250	8
703	Use of Cranes in System Dynamics and Controls Education. **2008**, 41, 9099-9104	4
702	Design and Simulation on Improved Repetitive Controller for Inverted Power Supply. **2008**, 41, 11990-11994	
701	Position Tracking Control with Velocity from Accelerometer and Encoder. **2008**, 41, 14828-14833	1
700	Short-span seeking control of hard disk drive with learning based PTC in acceleration and deceleration period. **2009**,	1
699	Walking pattern generation method with feedforward and feedback control for humanoid robots. **2009**,	3
698	An analysis and synthesis of internal model principle type controllers. **2009**,	3
697	Adaptive rejection of stochastic and deterministic sinusoidal disturbances with unknown frequency. **2009**,	1
696	Multiple-period adaptive-repetitive control of a hard disk drive. **2009**,	1
695	Iterative learning based repetitive disturbance rejection with application to color registration error reduction in flatbed document scanners. **2009**,	1
694	l-delay input reconstruction for discrete-time linear systems. **2009**,	4

693 . **2009**,

692 Zero phase error tracking control with friction compensation based motion control system. **2009**, 0

691 The study of accurate digital control for precision AC servo table. **2009**,

690 Amplitude adjusting filtering zero phase error tracking sliding mode control for piston lathe linear servo system. **2009**,

689 High-speed tracking servo of modified ZPET-feedforward control for optical disk drives. **2009**, 4

688 High-speed high-precision control of atomic force microscope by surface topography learning observer. **2009**, 2

687 Design of distributed cross-coupled controller based on motion control bus. **2009**, 1

686 Repetitive Control System Under Actuator Saturation and Windup Prevention. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2009**, 131, 1.6 18

685 A Review of Feedforward Control Approaches in Nanopositioning for High-Speed SPM. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2009**, 131, 1.6 251

684 Modeling and Control of Contouring Errors for Five-Axis Machine Tools Part II: Precision Contour Controller Design. **2009**, 131, 27

683 Force sensorless robust tracking servo system suppressing periodic disturbance and sudden disturbance for optical disk system. **2009**, 166, 82-90

682 Discrete-time controller design to attenuate effects of external disturbances. **2009**, 15, 1645-1651 5

681 Discrete-time robust adaptive multi-axis control for feed drive systems. **2009**, 49, 1204-1213 5

680 Repetitive tracking position control on LonWorks/IP network with time varying delay. **2009**, 7, 930-938 1

679 Contouring accuracy improvement using a tangential contouring controller with a fuzzy logic-based feedrate regulator. *International Journal of Advanced Manufacturing Technology*, **2009**, 41, 75-85 3.2 5

678 Applications of integrated motion controllers for precise CNC machines. *International Journal of Advanced Manufacturing Technology*, **2009**, 44, 906-920 3.2 20

677 Short-Span seeking control of hard disk drives with multirate vibration suppression perfect tracking control. **2009**, 4, 184-191 1

676 Servo techniques for optical disk drives High-speed and precise optical beam-positioning control. **2009**, 4, 240-247 1

675	Improving contouring accuracy by tuning gains for a bi-axial CNC machine. **2009**, 49, 395-406		41
674	Cyclic pseudo-downsampled iterative learning control for high performance tracking. *Control Engineering Practice*, **2009**, 17, 957-965	3.9	9
673	A new tracking controller for discrete-time SISO non minimum phase systems. **2009**, 12, n/a-n/a		
672	A comparison of control architectures for atomic force microscopes. **2009**, 11, 175-181		44
671	Semi-automatic tuning of PID gains for atomic force microscopes. **2009**, 11, 188-195		19
670	A fuzzy cross-coupled linear quadratic regulator for improving the contour accuracy of bi-axis machine tools. **2009**,		0
669	Repetitive control applied to a walking piezo actuator. **2009**,		3
668	Nonminimum Phase Dynamic Inversion for Settle Time Applications. *IEEE Transactions on Control Systems Technology*, **2009**, 17, 989-1005	4.8	78
667	A Passive Repetitive Controller for Discrete-Time Finite-Frequency Positive-Real Systems. **2009**, 54, 800-804		10
666	Approximate Input Reconstruction for Diagnosing Aircraft Control Surfaces. **2009**,		0
665	Repetitive control with Prandtl-Ishlinskii hysteresis inverse for piezo-based nanopositioning. **2009**,		15
664	A Synchronization Approach for the Minimization of Contouring Errors of CNC Machine Tools. **2009**, 6, 720-729		38
663	A 252-Mb/s Recording Experiment Using Flexible Optical Disks for Broadcast Use. **2009**, 45, 2190-2193		20
662	Adaptive inverse control for settling performance improvements. **2009**,		3
661	Accurate tracking control of a linear fast tool servo unit for noncircular cutting. **2009**,		0
660	Self-tuning controller design for motion control systems. **2009**,		
659	A Neural-Networks-Based Adaptive Disturbance Rejection Method and Its Application to the Control of Hard Disk Drives. **2009**, 45, 2140-2150		13
658	A walking pattern generation method with feedback and feedforward control for humanoid robots. **2009**,		2

657   RRO Compensation of Hard Disk Drives With Multirate Repetitive Perfect Tracking Control. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 3825-3831   8.9   34

656   Generalised repetitive control: relaxing the period-delay-based structure. **2009**, 3, 1528-1536   8

655   A New Method of Generating Pulse Sequence for Numerical Controllers -with Velocity and Acceleration Bounds Adapting to the Servomotor System. **2009**, 3, 269-276

654   . **2010**,

653   Adaptive Repetitive Control Systems for Fast Rejection of Periodic Disturbances with Uncertain Multiple Periods. **2010**, 43, 150-155

652   Application of Perfect Tracking Control to Large-Scale High-Precision Stage. **2010**, 43, 188-193   4

651   An Indirect Adaptive Approach to Reject Multiple Narrow-Band Disturbances in Hard Disk Drives. **2010**, 43, 44-49   3

650   Directional Repetitive Control of a Metrological AFM. **2010**, 43, 206-211

649   Analysis of Residual Vibrations above the Nyquist Frequency in Head-Positioning Control of Hard Disk Drives. **2010**, 43, 76-83

648   Control of Machine Tools and Machining Processes. **2010**, 10-1-10-18

647   Constrained identification of virtual CNC drives using a genetic algorithm. *International Journal of Advanced Manufacturing Technology*, **2010**, 50, 275-288   3.2   7

646   Nonminimum phase adaptive inverse control for settle performance applications. **2010**, 20, 35-44   25

645   Development of a 3-axis desktop milling machine and a CNC system using advanced modern control algorithms. **2010**, 11, 39-47   23

644   DISCRETE-TIME OBSERVER-BASED OUTPUT TRACKING CONTROLLER DESIGN FOR NONMINIMUM PHASE SYSTEMS WITH PERTURBATIONS. **2010**, 9, 435-441

643   Nano-positioning of an electromagnetic scanner with a MEMS capacitive sensor. **2010**, 20, 27-34   12

642   Improving CNC contouring accuracy by integral sliding mode control. **2010**, 20, 442-452   30

641   Robust compensation of elastic deformations in ball screw drives. **2010**, 50, 559-574   44

640   A new method for synthesizing multiple-period adaptive repetitive controllers and its application to the control of hard disk drives. *Automatica*, **2010**, 46, 1186-1195   5.7   28

639   Compound Control for Hydraulic Flight Motion Simulator. **2010**, 23, 240-245   13

638   The Design of QFT Robust Compensators with Magnitude and Phase Specifications. **2010**, 2010, 1-20   5

637   Electro-Hydraulic Fully Flexible Valve Actuation System for Engine Test Cell. **2010**,   2

636   On the Design of Discrete Time Repetitive Controllers in Closed Loop Configuration. **2010**, 51, 333-344 2

635   Controlador vetorial neural para mesa de coordenadas XY. **2010**, 21, 406-424   1

634   Model Predictive Approach to Precision Contouring Control for Feed Drive Systems. **2010**, 6, 844-851

633   Analysis and Compensation Following Error of Feed Drive in CNC. **2010**, 26-28, 591-597   0

632   Closed-Loop Identification and Composed Controller Design for Precise Machining. **2010**, 97-101, 3139-3145 1

631   . **2010**,   1

630   Model predictive control with repetitive control for periodic signal tracking and constraint handling of fast sampled-data control systems. **2010**,

629   Sensitivity reduction of adaptive repetitive control system with asymptotical rejection against uncertain periodic disturbance. **2010**,   1

628   Positioning control for Piezo scanner using multirate perfect inverse model based iterative learning control. **2010**,   6

627   Anti-windup schemes comparison for digital repetitive control. **2010**,

626   Self-Tuning Zero Phase Error Tracking Control of AC Permanent Magnet Linear Synchronous Motor Servo System. **2010**,

625   Short-span seeking control of hard disk drive based on integral type learning PTC. **2010**,   1

624   Zero phase error tracking control system with multi harmonics disturbance suppression loop. **2010**,   3

623   Enhanced feedforward control of non-minimum phase systems for tracking predefined trajectory. **2010**, 83, 2440-2452   5

622   . **2010**,

621	Optimal feedforward controller design for periodic inputs. **2010**, 83, 1044-1053		7
620	Optimal Sliding Mode Dual-Stage Actuator Control in Computer Disk Drives. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2010**, 132,	1.6	5
619	Application of Combined Feedforward and Feedback Controller With Shaped Input to Benchmark Problem. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2010**, 132,	1.6	4
618	Mechatronic Modeling and Analyzing for Feed Servo Control System Based on Torsion Dynamics of Lead-Screw. **2010**,		
617	Error Prediction Robust Tracking Control System Suppressing Harmonics Disturbance for Optical Disk Recording System. **2010**, 49, 08KC08		9
616	On the Theory and Design of Linear Repetitive Control Systemsg. **2010**, 16, 447-496		53
615	Precision Control and Compensation of Servomotors and Machine Tools via the Disturbance Observer. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 420-429	8.9	101
614	Development and Assessment of a Novel Decoupled XY Parallel Micropositioning Platform. *IEEE/ASME Transactions on Mechatronics*, **2010**, 15, 125-135	5.5	88
613	Design of the Tracking Controller for Holographic Digital Data Storage. *IEEE/ASME Transactions on Mechatronics*, **2010**, 15, 242-252	5.5	6
612	Control of the DLC coated ball bearing linear stage in high vacuum. **2010**,		
611	A fractional-order synchronization of two networked motion control systems. **2010**,		2
610	Enhanced feedforward control of non-minimum phase systems for tracking predefined trajectory. **2010**,		0
609	Position tracking control of a direct-drive submersible grinding robot: A comparative study. **2010**,		5
608	DC motor speed regulation using repetitive control. **2010**,		1
607	Discrete sliding mode current control of grid-connected three-phase PWM converters with LCL filter. **2010**,		12
606	. **2011**,		14
605	Real-time control of non-minimum phase electro-hydraulic system using trajectory-adaptive ZPETC. **2011**,		2
604	An error compensation method for multi-axis machining based on the actual contour measurement. **2011**,		

603	Adaptive Repetitive Control of System Subject to Periodic Disturbance with Time-Varying Frequency. **2011**,	13
602	Iterative learning control for near-field scanning optical microscope applications. **2011**,	
601	Optimizing the performance of a novel seesaw-swivel actuator for a holographic module. **2011**,	
600	Modeling and controller design for non-minimum phase system with application to XY-table. **2011**,	1
599	Tracking control for electro-hydraulic actuator using ZPETC. **2011**,	1
598	Lift force control of a flapping-wing microrobot. **2011**,	12
597	Adding Feedforward Blade Pitch Control for Load Mitigation in Wind Turbines: Non-Causal Series Expansion, Preview Control, and Optimized FIR Filter Methods. **2011**,	26
596	Feed drive control considering multi-axis coupling effects and extension to contouring control. **2011**,	
595	Unobservable Settling Vibration on Head-Positioning Control in Hard Disk Drives. **2011**, 44, 4052-4060	
594	Combined Feedforward/Feedback Control for Tape Head Track-Following Servo Systems. **2011**, 44, 4040-4045	
593	State Space Disturbance Compensation for Robust Fast Servo Track Writer Seek Control*. **2011**, 44, 5291-5296	
592	A Survey of Control Issues in Optical Data Storage Systems. **2011**, 44, 854-868	7
591	Measurement and Control of Machine Tool Motion. **2011**, 77, 2814-2821	1
590	Analysis of Residual Vibrations beyond the Nyquist Frequency in Sampled-Data Positioning Control System. **2011**, 5, 1444-1459	3
589	Spiral Servo Writing in Hard Disk Drives Using Iterative Learning Based Tracking Control. **2011**, 44, 5279-5285	1
588	Research of Compound Controller for Flight Simulator with Disturbance Observer. **2011**, 24, 613-621	16
587	Bias Compensation for Fast Servo Track Writer Seek Control. **2011**, 47, 1937-1943	9
586	A Novel Contour Error Estimation for Position Loop-Based Cross-Coupled Control. *IEEE/ASME Transactions on Mechatronics*, **2011**, 16, 643-655	5.5 105

585	Delay-varying repetitive control with application to a walking piezo actuator. *Automatica*, **2011**, 47, 1737-1743	5.7	17
584	Machine tool feed drives. **2011**, 60, 779-796		326
583	Positioning and Tracking Control of an XY table. **2011**,		0
582	Pulse shaping in ISO/IEC14443 measurement systems using inverse system parameters for feed-forward compensation. **2011**,		1
581	l-Delay Input and Initial-State Reconstruction for Discrete-Time Linear Systems. **2011**, 30, 233-262		20
580	Experimental implementation of Taylor series expansion error compensation on a bi-axial CNC machine. *International Journal of Advanced Manufacturing Technology*, **2011**, 53, 285-299	3.2	13
579	Observer-based robust controller design and realization of a gantry stage. **2011**, 21, 185-203		21
578	Cross-coupling position command shaping control in a multi-axis motion system. **2011**, 21, 625-632		32
577	Dynamics and contouring control of a 3-DoF parallel kinematics machine. **2011**, 21, 215-226		24
576	Precision tracking control of a biaxial piezo stage using repetitive control and double-feedforward compensation. **2011**, 21, 239-249		40
575	Contouring controller design based on iterative contour error estimation for three-dimensional machining. **2011**, 27, 802-807		43
574	Directional Repetitive Control of a Metrological AFM. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 1622-1629	4.8	7
573	Improvement of settling performance by mode switching control with split Initial Value Compensation based on Input Shaper. **2011**,		
572	. **2011**,		
571	Feedforward control for high precision linear servo system. **2011**,		
570	High performance motion controller design for linear piezoelectric ceramic motors. **2011**,		
569	Robust Tracking Control Based QFT and Pade Approximation for Flight Simulator. **2011**, 383-390, 7600-7606		
568	LIDAR-based FX-RLS feedforward control for wind turbine load mitigation. **2011**,		2

567	A new control method with perfect tracking control for flight simulator. **2011**,	2
566	Positioning Control System Based on ZPETC and Optimal Control Method for Plant with Dead-Time. **2012**, 152-154, 1795-1800	
565	Hysteresis compensation and high-performance tracking control of piezoelectric actuators. **2012**, 226, 1050-1059	3
564	Phase compensation multiple resonant control of single-phase PWM inverter. **2012**,	0
563	FES based rehabilitation of the upper limb using input/output linearization and ILC. **2012**,	11
562	PID contour tracking control in position domain. **2012**,	2
561	Point-to-point trajectory tracking with two-degree-of-freedom robust control for a non-minimum phase electro-hydraulic system. **2012**,	2
560	A new Robust Delay-Variable Repetitive Controller with application to media transport in a printer. **2012**,	
559	Wing trajectory control for flapping-wing microrobots using combined repetitive and minimum-variance adaptive methods. **2012**,	4
558	Synchronization of tool tip and tool orientation contour errors in five-axis machining. **2012**,	2
557	. **2012**,	7
556	Feed-forward control of non-minimum phase XY table system using Trajectory Fuzzy-RLS Hybrid ZPETC. **2012**,	
555	Adaptive feedforward zero phase error tracking control with model reference for high precision X-Y table. **2012**,	0
554	Feedforward control for disturbance rejection: Model matching and other methods. **2012**,	9
553	An enhanced repetitive control algorithm using the structure of disturbance observer. **2012**,	5
552	Multiple harmonics control of single-phase PWM rectifiers. **2012**,	1
551	Load-side acceleration control for industrial robot arm with axial torsion. **2012**,	1
550	A composite pulsating controller for achieving high-performance positioning. **2012**, 34, 26-55	

549	Contouring Performance Improvement of Biaxial Motion Control Systems Using Friction and Disturbance Compensation. **2012**, 579, 287-296		0
548	Learning Based Cross-Coupled Control for Multi-Axis High Precision Positioning Systems. **2012**,		4
547	Robust Fast Seek Control of a Servo Track Writer Using a State Space Disturbance Observer. *IEEE Transactions on Control Systems Technology*, **2012**, 20, 346-355	4.8	21
546	A Discrete-Time Single-Parameter Combined Feedforward/Feedback Adaptive-Delay Algorithm With Applications to Piezo-Based Raster Tracking. *IEEE Transactions on Control Systems Technology*, **2012**, 20, 416-423	4.8	13
545	Predictive Contour Control With Adaptive Feed Rate. *IEEE/ASME Transactions on Mechatronics*, **2012**, 17, 669-679	5.5	47
544	References. **2012**, 407-420		
543	Adaptive feedforward Zero Phase Error Tracking Control for minimum phase and non-minimum phase systems - XY table real-time application. **2012**,		2
542	Discrete-time dual peak control for disturbance rejection. **2012**, 18, 1645-1650		1
541	Control repetitivo digital de sistemas con frecuencia incierta o variante en el tiempo. **2012**, 9, 219-230		2
540	. **2012**,		1
539	Trajectory ZPETC design using comparing coefficients method: The studies on the effects of zero locations to tracking performance. **2012**,		0
538	Robust trajectory tracking controller for XY table. **2012**,		1
537	Trajectory tracking control method based on zero-phase minimum-phase factorization for nonminimum-phase continuous-time system. **2012**,		3
536	Adaptive Integrated Contouring Control of Biaxial Systems. **2012**,		
535	Real-time adaptive feedforward Zero Phase Error Tracking Control for X-Y motion. **2012**,		1
534	Precision Tracking Control and Constraint Handling of Mechatronic Servo Systems Using Model Predictive Control. *IEEE/ASME Transactions on Mechatronics*, **2012**, 17, 593-605	5.5	31
533	The strategy of three-axis photoelectric tracking system without blind region. **2012**, 56, 89-98		4
532	FX-RLS-Based Feedforward Control for LIDAR-Enabled Wind Turbine Load Mitigation. *IEEE Transactions on Control Systems Technology*, **2012**, 20, 1212-1222	4.8	62

531	Analysis and comparison of three discrete-time feedforward model-inverse control techniques for nonminimum-phase systems. **2012**, 22, 577-587		118
530	Rejecting multi-stage and low-frequency resonance with disturbance observer and feedforward control for engine servo. **2012**, 22, 819-826		7
529	Real-time control of non-minimum phase XY table system using trajectory-adaptive ZPETC. **2012**,		1
528	Optimal Tracking Control of Motion Systems. *IEEE Transactions on Control Systems Technology*, **2012**, 20, 1548-1558	4.8	34
527	Optimized tool path generation for fast tool servo diamond turning of micro-structured surfaces. *International Journal of Advanced Manufacturing Technology*, **2012**, 63, 1137-1152	3.2	54
526	Adaptive nonlinear contour coupling control for a machine tool system. *International Journal of Advanced Manufacturing Technology*, **2012**, 61, 1057-1065	3.2	21
525	Energy-efficient power assisting methods for periodic motions and its experimental verification. **2012**,		2
524	Two-degree-of-freedom robust control for a non-minimum phase electro-hydraulic system. **2012**,		2
523	Discrete-time repetitive controller for time-delay systems with disturbance observer. **2012**, 14, 1340-1354		19
522	Auto-tuning and adaptive control of sheet metal forming. *Control Engineering Practice*, **2012**, 20, 156-164	3.9	11
521	Feed-system autotuning of a CNC machining center: Rapid system identification and fine gain tuning based on optimal search. **2012**, 36, 339-348		8
520	DC Motor Drive Speed Regulation: Using a Repetitive Control Application in a Flatbed Scanner. **2012**, 18, 38-46		6
519	. *IEEE/ASME Transactions on Mechatronics*, **2012**, 17, 356-369	5.5	245
518	. *IEEE/ASME Transactions on Mechatronics*, **2012**, 17, 345-355	5.5	50
517	Discrete-Time State Feedback With Velocity Estimation Using a Dual Observer: Application to an Underwater Direct-Drive Grinding Robot. *IEEE/ASME Transactions on Mechatronics*, **2012**, 17, 187-191	5.5	16
516	Milling contour error control using multilevel fuzzy controller. *International Journal of Advanced Manufacturing Technology*, **2013**, 66, 1641-1655	3.2	7
515	Precision contouring control of machine tools. *International Journal of Advanced Manufacturing Technology*, **2013**, 64, 319-333	3.2	54
514	Pre-compensation of contour errors in five-axis CNC machine tools. **2013**, 74, 1-11		71

513	Lift Force Control of Flapping-Wing Microrobots Using Adaptive Feedforward Schemes. *IEEE/ASME Transactions on Mechatronics*, **2013**, 18, 155-168	5.5	24
512	Periodic motion control of a heavy duty pneumatic actuating table using low-cost position sensors and hybrid repetitive control. **2013**,		2
511	Multiaxis Contour Control─the State of the Art. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 1997-2010	4.8	74
510	Estimation of tool orientation contour errors for five-axismachining. **2013**, 29, 271-277		21
509	Design of decentralized repetitive control of linear MIMO system. **2013**,		3
508	Hybrid proportional derivative/repetitive control for active vibration control of smart piezoelectric structures. **2013**, 19, 992-1003		15
507	Rolling bearing-suspended spindle run-out control using repetitive control and adaptive feedforward cancellation. **2013**, 14, 2171-2178		12
506	Receding horizon based trajectory planning for biaxial systems. **2013**,		3
505	High speed motion control system based on predictive observer. **2013**,		
504	Receding horizon based trajectory planning and two-degree-of-freedom tracking control for fast sampling constrained systems. **2013**,		2
503	Command-based iterative learning control with TCP function for five-axis contouring. **2013**,		2
502	Vibration suppression feedback control on angular transmission error of cycloid gear for industrial robot. **2013**,		2
501	Reference governor based model predictive contouring control for biaxial systems. **2013**,		2
500	Sliding mode contouring control design using nonlinear sliding surface for three-dimensional machining. **2013**, 65, 8-14		18
499	A New Optimal Control System Design for Chemical Processes. **2013**, 21, 1341-1346		1
498	Estimation method for unobservable settling vibration of head-positioning control in hard disk drives. **2013**, 23, 37-45		11
497	Accurate control of ball screw drives using pole-placement vibration damping and a novel trajectory prefilter. **2013**, 37, 308-322		41
496	Phase Compensation Resonant Controller for PWM Converters. **2013**, 9, 957-964		37

495	Causal inversion of non-minimum-phase systems for hardware-in-the-loop transmission testing. **2013**, 227, 298-307		1
494	Contouring accuracy improvement of parametric free-form curves A Fuzzy Logic-based Disturbance Compensation approach. **2013**,		
493	Adaptive Control With Internal Model for High-Performance Precision Motion Control and Its Application to a Fast-Acting Piezoelectric Actuator. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2013**, 135,	1.6	3
492	Adaptive Error Control Algorithm for High Speed Two-Axis CNC Contouring. **2013**, 584, 149-153		
491	Application of Speed Observer for XY-Stage of Wire Bonder. **2013**, 655-657, 1342-1347		
490	Double Feedforward Control System Based on Precise Disturbance Modeling for Optical Disk. **2013**, 52, 09LF01		3
489	Precision motion control of permanent magnet linear synchronous motor servo system based on an integrated controller with inertia variation compensation. **2013**, 227, 1481-1494		7
488	Model-based piecewise affine variable-gain controller synthesis. **2013**,		1
487	A spline-based technique for optimal set point regulation through pseudo-inversion of nonminimum phase linear systems. **2013**,		3
486	A robust two degree-of-freedom controller for systems with delay. **2013**,		
485	. **2013**,		0
484	Intersample ripple resulting from discrete-time feedforward control. **2013**,		
483	Improvement of Settling Performance by Mode-Switching Control With Split Initial-Value Compensation Based on Input Shaper. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 979-987	8.9	16
482	Model-following controller design based on a stabilized digital inverse system. **2013**,		
481	A new stabilizer for ltv internal model based system and its application to camless engine valve actuation. **2013**,		1
480	An efficient fixed-point realization of inversion based repetitive control. **2013**,		
479	Minimum trajectory control of focusing and tracking of optical disk systems by two-dimensional feedforward compensator. **2013**,		
478	Inverse-Based Local Loop Shaping and IIR-Filter Design For Precision Motion Control. **2013**, 46, 490-497		2

477	Contouring Controller for Precise Motion Control Systems. **2013**, 54, 19-27		8
476	Trajectory Generation for CNC Machine Tools. **2013**, 79, 631-638		2
475	Longitudinal Slip Ratio Control of Electric Powertrains Using a Controller Output Observer for Disturbance Rejection. **2014**, 7, 65-72		7
474	Mechanical design and optimal control of humanoid robot (TPinokio). **2014**, 2014, 161-172		0
473	Control of Magnetic Bearings with plug-in time-varying harmonic resonators. **2014**,		2
472	. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1581-1588	4.8	18
471	Hybrid current control of three-phase grid-connected converter for marine current power generation system. **2014**,		2
470	Two-stage feedforward tracking control system with error-based disturbance observer for optical discs. **2014**, 21, 578-584		0
469	A sensorless physiological control algorithm for left ventricular assist device for heart failure patients. **2014**,		1
468	Contour following control of two-axis servomechanism using CMAC and ILC. **2014**,		1
467	Digital design of adaptive repetitive control of linear systems with time-varying periodic disturbances. **2014**, 8, 1995-2003		14
466	Synchronous Controller for Dual Servo Motor in Servo Press. **2014**, 494-495, 1175-1181		0
465	Unified output tracking control of non-minimum phase PWM systems using output redefinition. **2014**,		1
464	Parameter-based contour error estimation for contour following accuracy improvements. **2014**,		1
463	Aspects in inferential Iterative Learning Control: A 2D systems analysis. **2014**,		2
462	Improving scanning speed of the AFMs with inversion-based feedforward control. **2014**,		1
461	Free-form curves contour error estimation using the backward arc length approach. **2014**,		1
460	MIMO FIR feedforward design for zero error tracking control. **2014**,		7

459	Robust double feedforward tracking control system using error based disturbance observer for optical disk systems. **2014**,		
458	Adaptive zero phase based internal model control for direct drive XY table. **2014**,		
457	Trajectory tracking controller of high precise positioning system based on iterative learning control with wavelet filtering method. **2014**,		
456	Optimal feedforward control with a parametric structure applied to a wafer stage. **2014**, 228, 97-106		8
455	High-Speed CNC Grinding Process Optimization of Non-Circular Rotary Parts Based on Particle Swarm Optimization. **2014**, 528, 237-246		
454	Reference redesigned perfect tracking control, with application to servo control system. **2014**,		3
453	Real-Time Walking Pattern Generation Method for Humanoid Robots by Combining Feedback and Feedforward Controller. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 355-364	8.9	26
452	Multiobjective Optimization of an Observer-Based Controller: Theory and Experiments on an Underwater Grinding Robot. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1875-1882	4.8	7
451	Feedforward tracking control for lower-limb robot with antagonistic driven mechanism. **2014**,		
450	Three-dimensional contour tracking control of a parallel manipulator: Comparison of two control techniques. **2014**,		1
449	A new repetitive control scheme based on non-causal FIR filters. **2014**,		8
448	High-Sampling Rate Dynamic Inversion Filter Realization and Applications in Digital Control. *IEEE/ASME Transactions on Mechatronics*, **2014**, 19, 238-248	5.5	6
447	Design of Robust Repetitive Control With Time-Varying Sampling Periods. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 2834-2841	8.9	56
446	Minimum tracking & focusing trajectory control based on two-dimensional equivalent PTC for optical disk. **2014**,		
445	Compensating for ZOH-Induced Residual Vibrations in Head-Positioning Control of Hard Disk Drives. *IEEE/ASME Transactions on Mechatronics*, **2014**, 19, 258-268	5.5	17
444	New Repetitive Control With Improved Steady-State Performance and Accelerated Transient. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 664-675	4.8	77
443	Modeling of a linear motor feed drive including pre-rolling friction and aperiodic cogging and ripple. *International Journal of Advanced Manufacturing Technology*, **2014**, 73, 267-277	3.2	18
442	A Neural-Repetitive Control Approach for High-Performance Motion Control of Piezo-Actuated Systems. **2014**, 39, 4131-4140		7

441	Discrete-time repetitive control with model-less FIR filter inversion for high performance nanopositioning. **2014**,		6
440	PID saturation function sliding mode control for piezoelectric actuators. **2014**,		1
439	Hierarchical optimal contour control of motion systems. **2014**, 24, 98-107		14
438	Performance optimization of piecewise affine variable-gain controllers for linear motion systems. **2014**, 24, 648-660		13
437	Smooth feedrate planning for continuous short line tool path with contour error constraint. **2014**, 76, 1-12		56
436	A robust two degree-of-freedom controller for systems with both model and measurement uncertainty. *Control Engineering Practice*, **2014**, 25, 55-65	3.9	6
435	Position and Velocity Profile Tracking Control for New Generation Servo Track Writing. **2014**, 47, 5902-5907		
434	Transient Enhancement in Add-on Feedforward Algorithms for High-performance Mechatronic Systems. **2014**, 47, 7214-7220		
433	Repetitive model based predictive controller to reject periodic disturbances.. **2014**, 47, 11494-11499		2
432	Load current feedforward control of boost converter for downsizing output filter capacitor. **2014**,		6
431	A comparison of inversion based Iterative Learning Control Algorithms. **2015**,		4
430	Design of a new phase lead repetitive compensator for fast transient response. **2015**,		1
429	Predictive Functional Control of a Table Drive System Using Disturbance Observer and Preview Feedforward Controller. **2015**, 789-790, 995-1004		
428	Low-order feedforward control schemes for flexible motion systems with different rigid-body damping. **2015**,		3
427	An approach to model-following controller design based on a stabilized digital inverse system. **2015**, 229, 829-837		1
426	Tracking Control of Non-Minimum Phase Systems Using Filtered Basis Functions: A NURBS-Based Approach. **2015**,		2
425	Second-Order Iterative Learning Control for Scaled Setpoints. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 805-812	4.8	3
424	A speed optimization algorithm based on the contour error model of lag synchronization for CNC cam grinding. *International Journal of Advanced Manufacturing Technology*, **2015**, 80, 1421-1432	3.2	9

423	A novel cross-coupled synchronizing control method of industrial robot for trajectory tracking. **2015**,		
422	Unified ILC framework for repeating and varying tasks: A frequency domain approach with application to a wire-bonder. **2015**,		2
421	Distributed Component Friction Model for Precision Control of a Feed Drive System. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 1966-1974	5.5	26
420	Disturbance observer-based robust perfect tracking control for servo system and its application. **2015**,		
419	The cam grinding contour error compensation based on cycle to cycle control. **2015**,		
418	Contouring control of biaxial systems with optimal and adaptive cross coupling controller. **2015**,		1
417	Smooth polynomial interpolation for point-to-point trajectories with vibration avoidance. **2015**,		2
416	Low-Order Stabilizer Design for Discrete Linear Time-Varying Internal Model-Based System. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 2666-2677	5.5	4
415	Trying to keep it real: 25 Years of trying to get the stuff I learned in grad school to work on mechatronic systems. **2015**,		8
414	Matrix factorization for design of Q-filter in iterative learning control. **2015**,		1
413	Disturbance observer-based predictive functional control using zero phase error tracking controller. **2015**,		0
412	Trajectory Tracking Control and Contouring Performance of Three-Dimensional CNC. *IEEE Transactions on Industrial Electronics*, **2015**, 1-1	8.9	24
411	Robust principal component analysis for iterative learning control of precision motion systems with non-repetitive disturbances. **2015**,		6
410	Discrete sliding mode control for a non-minimum phase electro-hydraulic actuator system. **2015**,		4
409	Experiment on trajectory tracking control of high precise positioning system based on iterative learning controller with wavelet filtering. **2015**, 32, 88-95		8
408	Time-delay pre-filter design for vibration free tracking of periodic reference signals. **2015**,		1
407	A Control Strategy of a Two Degrees-of-Freedom Heavy Duty Parallel Manipulator. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2015**, 137,	1.6	41
406	Dynamic modeling and control of a novel XY positioning stage for semiconductor packaging. **2015**, 37, 177-189		16

405	Spline Based Pseudo-Inversion of Sampled Data Non-Minimum Phase Systems for an Almost Exact Output Tracking. **2015**, 17, 1866-1879		8
404	Rational Basis Functions in Iterative Learning Control With Experimental Verification on a Motion System. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 722-729	4.8	68
403	Robust repetitive control design and its application on linear servo systems. **2015**, 16, 21-29		2
402	Common zeros in synchronization of high-precision stage systems. **2015**,		6
401	Study on the Control Strategy and Algorithm for Head-Box. **2015**, 738-739, 1086-1089		
400	Zero-phase velocity tracking of vibratory systems. *Control Engineering Practice*, **2015**, 40, 93-101	3.9	6
399	Precision control and compensation of helical gear hobbing via electronic gearbox Cross-Coupling controller. **2015**, 16, 797-805		12
398	Robust µ control and repetitive control for precision motion control of a pneumatic actuating table. **2015**, 229, 625-638		
397	Positive Position Feedback Based High-Speed Tracking Control of Piezo-actuated Nanopositioning Stages. **2015**, 689-700		0
396	Pre-compensation of servo contour errors using a model predictive control framework. **2015**, 98, 50-60		45
395	A Data-Driven Variable-Gain Control Strategy for an Ultra-Precision Wafer Stage With Accelerated Iterative Parameter Tuning. **2015**, 11, 1179-1189		33
394	A mixed numerical analytical stable pseudo-inversion method aimed at attaining an almost exact tracking. **2015**, 25, 809-823		18
393	Robust adaptive feedforward control and achievable tracking for systems with time delays. **2015**, 88, 768-782		2
392	Controller Design for Mechanical Impedance Reduction. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 845-854	5.5	14
391	Energy Saving in Feed Drive Systems Using Sliding-Mode-Based Contouring Control With a Nonlinear Sliding Surface. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 572-579	5.5	28
390	Precise piston trajectory control for a free piston engine. *Control Engineering Practice*, **2015**, 34, 30-38	3.9	39
389	Improving CNC contouring accuracy by robust digital integral sliding mode control. **2015**, 88, 51-61		32
388	A generalized on-line estimation and control of five-axis contouring errors of CNC machine tools. **2015**, 88, 9-23		98

2016-2015

387	Rejecting multiple-period disturbances: active vibration control of a two degree-of-freedom piezoelectric flexible structure system. **2015**, 21, 3368-3382		3
386	A new approach to contour error control in high speed machining. **2015**, 88, 42-50		41
385	Vibration Suppression Control Method for Trochoidal Reduction Gears under Load Conditions. *IEEJ Journal of Industry Applications*, **2016**, 5, 267-275	0.7	0
384	Composite Motion Design Procedure for Vibration Assisted Small-Hole EDM Using One Voice Coil Motor. *Shock and Vibration*, **2016**, 2016, 1-7	1.1	5
383	Internal-Model-Principle-Based Specific Harmonics Repetitive Controller for Grid-Connected PWM Inverters. **2016**, 2016, 1-10		0
382	Optimal Design and Hybrid Control for the Electro-Hydraulic Dual-Shaking Table System. **2016**, 6, 220		8
381	Adaptive vibration suppression perfect tracking control for linear time-varying systems with application to ball-screw feed drives. **2016**,		2
380	. *IEEE/ASME Transactions on Mechatronics*, **2016**, 21, 2453-2465	5.5	1
379	Frequency-Domain ILC Approach for Repeating and Varying Tasks: With Application to Semiconductor Bonding Equipment. *IEEE/ASME Transactions on Mechatronics*, **2016**, 21, 2716-2727	5.5	35
378	Robust two-degree-of-freedom iterative learning control for flexibility compensation of industrial robot manipulators. **2016**,		10
377	Design of higher order repetitive controller for non minimum phase plants. **2016**,		2
376	Multirate iterative learning control for enhanced motion performance with application to wafer scanner systems. **2016**,		1
375	. **2016**, 1-1		
374	A Simplified Method for Discrete-Time Repetitive Control Using Model-Less Finite Impulse Response Filter Inversion. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2016**, 138,	1.6	15
373	. **2016**,		1
372	Regularized Filtered Basis Functions Approach for Accurate Tracking of Discrete-Time Linear Time Invariant Systems With Bounded Random Uncertainties. **2016**,		0
371	Tracking control method for a plant with continuous time unstable zeros: Finite preactuation based on state trajectory regeneration by using redundant order polynomial. **2016**,		2
370	An asymmetric cable-driven mechanism for force control of exoskeleton systems. **2016**,		1

369	An asymmetric cable-driven mechanism for force control of exoskeleton systems. **2016**, 40, 41-50		10
368	Contouring Accuracy Improvement Using an Adaptive Feedrate Planning Method for CNC Machine Tools. **2016**, 56, 299-305		6
367	Fast servo control and vibration suppression based on optical ZPETC and ZPNF. **2016**,		
366	U-model based control system formulisation and design for wind energy conversion systems. **2016**,		1
365	Design Techniques for Multivariable ILC: Application to an Industrial Flatbed Printer. *IFAC-PapersOnLine*, **2016**, 49, 213-221	0.7	4
364	Resource Efficient ILC: Enabling Large Tasks on an Industrial Position-Dependent Flatbed Printer. *IFAC-PapersOnLine*, **2016**, 49, 567-574	0.7	
363	U-model enhanced control of nonminimum-phase dynamic systems. **2016**,		1
362	Design and modeling aspects in multivariable iterative learning control. **2016**,		5
361	Simulation Study of Motion Control for X-Y Table with a Novel Direct Contour Controller. **2016**, 693, 1618-1623		
360	A novel analysis and design method of phase lead filters in repetitive controllers for pulse-width modulated inverters. **2016**,		
359	Design and analysis of a modular learning based cross-coupled control algorithm for multi-axis precision positioning systems. **2016**, 14, 272-281		5
358	Odd-harmonic repetitive control for high-speed raster scanning of piezo-actuated nanopositioning stages with hysteresis nonlinearity. **2016**, 244, 95-105		20
357	Digital LQR steady-state optimal control with feedforward for nonminimum phase boost DC-DC converter. **2016**,		1
356	Data-based feedforward controller reconstruction from iterative learning control algorithm. **2016**,		4
355	Multirate feedforward control with state trajectory generation based on time axis reversal for plant with continuous time unstable zeros. **2016**,		5
354	Data-driven optimization of disturbance observer and feedforward controller in a composite control structure. **2016**,		0
353	Cascaded proportionalintegralderivative controller parameters tuning for contour following improvement. **2016**, 230, 892-904		5
352	Tracking Control of Ball Screw Drives Using ADRC and Equivalent-Error-Model-Based Feedforward Control. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 7682-7692	8.9	28

333	Control of Magnetic Bearings for Rotor Unbalance With Plug-In Time-Varying Resonators. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2016**, 138, 0110011-1100111	1.6	5
332	Iterative learning control of high-acceleration positioning table via sensitivity identification. **2016**, 8, 168781401663341		1
331	Sample-and-Hold Inputs for Minimum-Phase Behavior of Nonminimum-Phase Systems. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 2103-2111	4.8	6
330	Energy-Efficient Controller Design for a Redundantly Actuated Hybrid Feed Drive With Application to Machining. *IEEE/ASME Transactions on Mechatronics*, **2016**, 21, 1822-1834	5.5	14
329	High speed laser scanning microscopy by iterative learning control of a galvanometer scanner. *Control Engineering Practice*, **2016**, 50, 12-21	3.9	41
328	High-Speed Tracking of a Nanopositioning Stage Using Modified Repetitive Control. **2017**, 14, 1467-1477		41
327	Contouring error control of the tool center point function for five-axis machine tools based on model predictive control. *International Journal of Advanced Manufacturing Technology*, **2017**, 88, 2909-2919	3.2	18
326	A generalised optimal linear quadratic tracker with universal applications. Part 2: discrete-time systems. **2017**, 48, 397-416		8
325	An Integrated Model-Data-Based Zero-Phase Error Tracking Feedforward Control Strategy With Application to an Ultraprecision Wafer Stage. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 4139-4149	8.9	33
324	Explicit Phase Lead Filter Design in Repetitive Control for Voltage Harmonic Mitigation of VSI-Based Islanded Microgrids. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 817-826	8.9	51
323	Pre-compensation for continuous-path running trajectory error in high-speed machining of parts with varied curvature features. **2017**, 30, 37-45		10
322	Closed-loop identification of unstable systems using noncausal FIR models. **2017**, 90, 168-185		22
321	A Novel Contouring Error Estimation for Three-Dimensional Contouring Control. **2017**, 2, 128-134		9
320	Dual-mode LQR-feedforward optimal control for non-minimum phase boost converter. **2017**, 10, 92-102		13
319	Disturbance Observer-Based Pitch Control of Wind Turbines for Enhanced Speed Regulation. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2017**, 139,	1.6	4
318	Tracking Control of Linear Time-Invariant Nonminimum Phase Systems Using Filtered Basis Functions. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2017**, 139,	1.6	10
317	Model generation and parameter identification of unknown environment using element description method. **2017**,		3
316	Robust guaranteed cost ILC with dynamic feedforward and disturbance compensation for accurate PMSM position control. *Control Engineering Practice*, **2017**, 65, 36-47	3.9	18

315	Adaptive Loop Shaping for Wideband Disturbances Attenuation in Precision Information Storage Systems. **2017**, 53, 1-13		4
314	Contouring control of a 3-[P2(US)] parallel manipulator. **2017**, 31, 496-508		3
313	Periodic Signal Tracking for Lightly Damped Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2017**, 139,	1.6	1
312	Speed tracking control for the gimbal system with harmonic drive. *Control Engineering Practice*, **2017**, 58, 204-213	3.9	11
311	Modeling, identification and analysis of a novel two-axis differential micro-feed system. **2017**, 50, 320-327		10
310	Digital Deadbeat and Repetitive Combined Control for a Stand-Alone Four-Leg VSI. **2017**, 53, 5624-5633		14
309	Fractional-Order Integral Sliding Mode Controller for Biaxial Motion Control System. **2017**, 24-35		
308	High-bandwidth and flexible tracking control for precision motion with application to a piezo nanopositioner. **2017**, 88, 085107		10
307	Model-based framework for multi-axial real-time hybrid simulation testing. **2017**, 16, 671-691		28
306	Contouring compensation control based on high accuracy contour error estimation for multi-axis motion systems. *International Journal of Advanced Manufacturing Technology*, **2017**, 93, 2263-2273	3.2	11
305	A new approach to the pre-compensation of contour errorsfor three-axis machine tools using an adaptive cross-coupled controller. *International Journal of Advanced Manufacturing Technology*, **2017**, 90, 3711-3725	3.2	6
304	Estimation and compensation for continuous-path running trajectory error in high-feed-speed machining. *International Journal of Advanced Manufacturing Technology*, **2017**, 89, 1495-1508	3.2	12
303	Enhancing Flatbed Printer Accuracy and Throughput: Optimal Rational Feedforward Controller Tuning Via Iterative Learning Control. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 4207-4216	8.9	25
302	Inverting Nonminimum-Phase Systems from the Perspectives of Feedforward and ILC * *This research is supported by the Dutch Technology Foundation STW, carried out as part of the Robust Cyber-Physical Systems (RCPS) project (no. 12694); and Innovational Research Incentives Scheme under the VENI grant Precision Motion: Beyond the Nanometer (no. 13073) awarded by NWO (The Netherlands Organization for Scientific Research). *IFAC-PapersOnLine*, **2017**, 50, 12101-12106	0.7	2
301	Different architectures to develop repetitive controllers. *IFAC-PapersOnLine*, **2017**, 50, 13408-13413	0.7	3
300	Synchronizing Decentralized Control Loops for Overall Performance Enhancement: A Youla Framework Applied to a Wafer Scanner. *IFAC-PapersOnLine*, **2017**, 50, 10845-10850	0.7	6
299	Preactuated multirate feedforward for a high-precision stage with continuous time unstable zeros. *IFAC-PapersOnLine*, **2017**, 50, 10907-10912	0.7	3
298	Data-Driven Progressive and Iterative Learning Control * *This work was supported in part by funds from UCLA Jules Stein Institute, Matech Industries, LTD. Taiwan, and the National Institute of Health, R21 Grant No. 5R21EY024065-02.. *IFAC-PapersOnLine*, **2017**, 50, 4825-4830	0.7	4

297	Real-Time High Bandwidth Feedforward Position Control of Electro-Hydraulic Actuator Using Non-Minimum Phase Inverse Model. **2017**,	
296	Set-point alteration scheme for improved disturbance compensation. **2017**,	
295	A U-model based controller design for non-minimum phase systems: Application to Boeing 747 altitude-hold autopilot. **2017**,	2
294	Robust repetitive control for time delay systems with application to nano manipulations. **2017**,	0
293	ESO-based repetitive control for rejecting periodic and aperiodic disturbances in piezoelectric actuators. **2017**,	1
292	Contouring error control for high-speed and high-precision five-axis CNC machine tools. **2017**,	1
291	Design of cross-coupled CMAC for contour-following a reinforcement-based ILC approach. **2017**, 58, 302-311	2
290	Large range tracking of an XY compliant nanomanipulator with nonlinear stiffness. **2017**,	
289	Precision contouring control of 5 DOF dual-arm robot manipulators with holonomic constraints. **2017**,	1
288	A set-membership approach to direct data-driven control design for SISO non-minimum phase plants. **2017**,	0
287	Zero magnitude error tracking control for servo system with extremely low-resolution digital encoder. **2017**, 10, 355	3
286	An approach to stable inversion of LPTV systems with application to a position-dependent motion system. **2017**,	2
285	Active Vibration Suppression of a Motor-Driven Piezoelectric Smart Structure Using Adaptive Fuzzy Sliding Mode Control and Repetitive Control. **2017**, 7, 240	9
284	Min-max model predictive control for biaxial feed drive system. **2017**,	1
283	Improvement of accuracy of seismic waveforms using dirsturbance observer in multi-axis shaking table systems. **2017**,	0
282	Internal Model-Based Disturbance Observer With Application to CVCF PWM Inverter. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 5743-5753	8.9	38
281	Real-Time Contour-Error Estimation Methods for Three-Dimensional Free-Form Parametric Curves in Contour-Following Tasks. **2018**, 19, 173-182	8
280	Generalized Predictive Contour Control of the Biaxial Motion System. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 8488-8497	8.9	15

279	Proxy-Based Optimal Control Allocation for Dual-Input Over-Actuated Systems. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 895-905	5.5	5
278	A high accuracy on-line estimation algorithm of five-axis contouring errors based on three-point arc approximation. **2018**, 130-131, 73-84		16
277	Continuous fractional-order Zero Phase Error Tracking Control. **2018**, 75, 226-235		19
276	Interpolation of a Clothoid Curve Based on Iterative True-Value Prediction Considering the Discretization Error. **2018**, 14, 5156-5166		2
275	Repetitive Controller of Capacitor-Less Current-Fed Dual-Half-Bridge Converter for Grid-Connected Fuel Cell System. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 7841-7855	8.9	19
274	Design and Performance Evaluation of an Optimal Discrete-Time Feedforward Controller for Servo-Hydraulic Compensation. **2018**, 144, 04017163		6
273	Interpolation-based contour error estimation and component-based contouring control for five-axis CNC machine tools. **2018**, 61, 1666-1678		6
272	Feedforward Control for Wind Turbine Load Reduction with Pseudo-LIDAR Measurement. **2018**, 15, 142-155	7	
271	Motion control of a two-axis linear motor-driven stage in the micro-milling process. **2018**, 232, 65-76		1
270	A Modified Feedback Scheme Suitable for Repetitive Control of Inverter With Nonlinear Load. **2018**, 33, 2588-2600		13
269	Phase compensation second-order repetitive control for CVCF PWM inverters. **2018**, 105, 324-336		4
268	Robust Iterative Learning Control for Vibration Suppression of Industrial Robot Manipulators. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2018**, 140,	1.6	22
267	A review of contouring-error reduction method in multi-axis CNC machining. **2018**, 125, 34-54		55
266	A limited-preview filtered B-spline approach to tracking control ⬭With application to vibration-induced error compensation of a 3D printer. **2018**, 56, 287-296		27
265	Simple approximate phase cancellation for repetitive control of CVCF PWM inverters. **2018**, 46, 453-467		0
264	A model-data integrated iterative learning controller for flexible tracking with application to a piezo nanopositioner. **2018**, 40, 3201-3210		14
263	On inversion-based approaches for feedforward and ILC. **2018**, 50, 282-291		53
262	Model-Data Driven Learning Adaptive Robust Control of Precision Mechatronic Motion Systems With Comparative Experiments. **2018**, 6, 78286-78296		4

261	Cross-coupled intelligent control for a novel two-axis differential micro-feed system. **2018**, 10, 168781401877462		
260	Performance Enhancement of Predictive Functional Control Using Disturbance Observer and Zero Phase Error Tracking Controller. **2018**,		
259	A Novel Robust Perfect Tracking Control Method for Nonlinear Servo Systems. **2018**,		5
258	Comparison of Different Repetitive Control Architectures: Synthesis and Comparison. Application to VSI Converters. *Electronics (Switzerland)*, **2018**, 7, 446	2.6	2
257	Unified Digital Periodic Controller for Power Converter Systems. **2018**,		
256	Studies on Robustness of Trajectory Adaptive ZPETC with Application to Electro-Hydraulic Actuator. **2018**,		
255	Constrained Receding Horizon Contouring Error Control for a Feed Drive System. **2018**,		1
254	Multirate Feedforward Control Based on Modal Form. **2018**,		0
253	Sensorless Feedforward Current Control of Dual-Active-Bridge DC/DC Converter for Micro-Grid Applications. *IFAC-PapersOnLine*, **2018**, 51, 333-338	0.7	5
252	State Trajectory Generation of MIMO Multirate Feedforward for Perfect Tracking Control in High-Precision Stage. **2018**,		
251	Design of a Robust Discrete-time Phase Lead Repetitive Control in Frequency Domain for a Linear Actuator with Multiple Phase Uncertainties. **2018**, 16, 2609-2620		2
250	Robust Filtered Basis Functions Approach for Feedforward Tracking Control. **2018**,		0
249	An Optimization Model of High-Speed and High-Precision Machining Based on Model Predictive Control. **2018**,		
248	Application of Iterative Learning Methods to Control of a LEGO Wheeled Mobile Robot. **2018**,		
247	Perfect Tracking Control Method by Multirate Feedforward and State Trajectory Generation based on Time Axis Reversal. *IEEJ Journal of Industry Applications*, **2018**, 7, 93-101	0.7	0
246	Model-Based ILC with a Modified Q-Filter for Complex Motion Systems: Practical Considerations and Experimental Verification on a Wafer Stage. **2018**, 2018, 1-11		1
245	Motion Control of the Piezoelectric Tube Scanner for Lissajous Trajectories with Modified Repetitive Control. **2018**,		1
244	Synergistic real-time compensation of tracking and contouring errors for precise parametric curved contour following systems. **2018**, 232, 3367-3383		5

243	Optimal State Trajectory Regeneration for Nonminimum Phase Systems: No Preactuation Approach. **2018**,		
242	Estimation Error Based Disturbance Observer Design for Flexible Loop Shaping. *Electronics (Switzerland)*, **2018**, 7, 358	2.6	3
241	A Scalable Model-Based Learning Algorithm With Application to UAVs. **2018**, 2, 839-844		12
240	Second-order RC: analysis, augmentation, and anti-frequency-variation for single-phase grid-tied inverter. **2018**, 11, 1128-1134		2
239	Development of a Cross-Coupled Robust Controller for a Multi-Axis Micromachining System. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2018**, 140,	1.6	1
238	Sensorless Control of Dual-Active-Bridge Converter with Reduced-Order Proportional-Integral Observer. **2018**, 11, 931		7
237	Fractional Order Zero Phase Error Tracking Control for Continuous Time Non-minimum Phase Processes. **2018**,		0
236	Achieving Perfect Causal Feedforward Control in Presence of Nonminimum-Phase Behavior - Exploiting Additional Actuators and Squaring Down. **2018**,		5
235	Reference Modulation for Performance Enhancement in Motion Control Systems. **2018**,		1
234	Design of disturbance observer using composite filter in two-dimensional shaking table systems. **2018**,		0
233	Optimal high-bandwidth control of ball-screw drives with acceleration and jerk feedback. **2018**, 54, 254-268		15
232	Modeling and adaptive compensation of tooth surface contour error for internal gearing power honing. **2019**, 233, 1500-1514		2
231	Feedforward model-inverse position control of three-stage servo-valve using zero magnitude error tracking control. **2019**, 233, 2340-2348		3
230	Finite-Time Learning Control Using Frequency Response Data With Application to a Nanopositioning Stage. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 2085-2096	5.5	12
229	A model-based approach to enhance performance in high-end laser-positioning systems. **2019**,		
228	DOB-Based Generalized Predictive Cross-Coupling Position Control for Biaxial System. **2019**,		0
227	Online estimate and compensation of the gear machining error based on electronic gearbox cross-coupling controller. **2019**, 83, 691-705		2
226	Data-driven tuning of feedforward controller structured with infinite impulse response filter via iterative learning control. **2019**, 13, 1062-1070		4

225	Data-driven iterative feedforward control with rational parametrization: Achieving optimality for varying tasks. **2019**, 356, 6352-6372		3
224	. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 863-871	5.5	7
223	Application of model-based compensation methods to real-time hybrid simulation benchmark. *Mechanical Systems and Signal Processing*, **2019**, 131, 394-416	7.8	10
222	Iterative learning control in high-performance motion systems: from theory to implementation. **2019**,		2
221	Precise Flowrate Control of Fluid Gear Pumps in Automated Painting Systems Using a Repetitive Controller. **2019**, 9, 3413		1
220	Friction compensation control of a feed drive system operated in a vacuum. **2019**, 33, 5353-5360		
219	Motion Control of Piezoelectric Actuator for High-Speed AFM Systems. **2019**,		
218	Perfect tracking control of discrete-time quadratic TS fuzzy systems via feedback linearisation. **2019**, 50, 2316-2332		2
217	Weighted sum of vector norms based contouring control method for five-axis CNC machine tools. **2019**, 60, 93-103		3
216	. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 8172-8180	8.9	11
215	Disturbance Compensation by Reference Profile Alteration With Application to Tray Indexing. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 9406-9416	8.9	6
214	Optimal design of robust feedforward compensator with gain and phase specifications. **2019**, 40, 448-459		
213	Fractional repetitive control of nanopositioning stages for tracking high-frequency periodic inputs with nonsynchronized sampling. **2019**, 90, 055108		4
212	Feedforward control for oscillatory signal tracking using Hilbert transform. **2019**, 50, 41-50		3
211	Perfect Tracking Control Considering Generalized Controllability Indices and Application for High-Precision Stage in Translation and Pitching. *IEEJ Journal of Industry Applications*, **2019**, 8, 263-270	0.7	4
210	. **2019**, 10, 6898-6911		2
209	Data-Based Switching Feedforward Control for Repeating and Varying Tasks: With Application to an Ultraprecision Wafer Stage. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 8670-8680	8.9	10
208	Contour errorbounded parametric interpolator with minimum feedrate fluctuation for five-axis CNC machine tools. *International Journal of Advanced Manufacturing Technology*, **2019**, 103, 567-584	3.2	17

207	Analysis of friction error in CNC machine tools based on electromechanical characteristics. **2019**, 233, 4934-4946		5
206	Integrated Modified Repetitive Control With Disturbance Observer of Piezoelectric Nanopositioning Stages for High-Speed and Precision Motion. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141,	1.6	9
205	A Generalized Input-output-based Digital Sliding-mode Control for Piezoelectric Actuators with Non-minimum Phase Property. **2019**, 17, 773-782		5
204	Design and wide-bandwidth control of large aperture fast steering mirror with integrated-sensing unit. *Mechanical Systems and Signal Processing*, **2019**, 126, 211-226	7.8	15
203	Iterative NC program modification and energy saving for a CNC machine tool feed drive system with linear motors. *International Journal of Advanced Manufacturing Technology*, **2019**, 102, 3543-3562	3.2	7
202	Data-driven multi-inverter cooperative control for voltage tracking and current sharing in islanded AC microgrids. **2019**, 41, 3145-3157		7
201	Analysis and Control of Non-Minimum Phase Behavior in Nonlinear AC Grids Equipped with HVDC Links. **2019**,		
200	Predictive Contour Control for Multi-axis Motion System with Unified Model. **2019**,		0
199	Multivariable Model-less Feedforward Control of a Monolithic Nanopositioning Stage with FIR Filter Inversion. **2019**,		6
198	Projection-based Iterative Learning Control for Ball-screw-driven Stage Using Basis Function and Data-based Friction Model. **2019**,		0
197	Intersample Behavior Analysis of MIMO Multirate Feedforward Control depending on Selection of Input Multiplicities. *IFAC-PapersOnLine*, **2019**, 52, 163-168	0.7	
196	Design of a Cooperative Voltage Harmonic Compensation Strategy for Islanded Microgrids Combining Virtual Admittance and Repetitive Controller. **2019**, 55, 680-688		22
195	The Generation Mechanism of Tracking Error During Acceleration or Deceleration Phase in Ultraprecision Motion Systems. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 7109-7119	8.9	8
194	An Equivalent-Plane Cross-Coupling Position Control for Contour-Accuracy Improvement in Three-Axis Free-Form Contour Following Tasks. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141,	1.6	
193	A new contouring error estimation for the high form accuracy of a multi-axis CNC machine tool. *International Journal of Advanced Manufacturing Technology*, **2019**, 101, 1403-1421	3.2	9
192	Enhanced DFT-Based Controller for Selective Harmonic Compensation in Active Power Filters. **2019**, 34, 8017-8030		13
191	Beyond decentralized wafer/reticle stage control design: A double-Youla approach for enhancing synchronized motion. *Control Engineering Practice*, **2019**, 83, 21-32	3.9	10
190	Industrial feedforward control technology: a review. **2019**, 30, 2819-2833		15

189	Performance-Enhanced Robust Iterative Learning Control With Experimental Application to PMSM Position Tracking. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 1813-1819	4.8	26
188	High-Speed AFM Imaging of Nanopositioning Stages Using H$_{infty }$ and Iterative Learning Control. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2430-2439	8.9	23
187	MPC Inspired Dynamical Output Feedback and Adaptive Feedforward Control Applied to Piezo-Actuated Positioning Systems. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 3921-3931	8.9	6
186	Local Loop Shaping for Rejecting Band-Limited Disturbances in Nonminimum-Phase Systems With Application to Laser Beam Steering for Additive Manufacturing. *IEEE Transactions on Control Systems Technology*, **2020**, 28, 2249-2262	4.8	2
185	Improving Intersample Behavior in Discrete-Time System Inversion: With Application to LTI and LPTV Systems. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 55-65	5.5	3
184	Dynamic error of CNC machine tools: a state-of-the-art review. *International Journal of Advanced Manufacturing Technology*, **2020**, 106, 1869-1891	3.2	20
183	Iterative Learning of Dynamic Inverse Filters for Feedforward Tracking Control. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 349-359	5.5	10
182	Gain-phase information based robust control theory. **2020**, 30, 7970-7990		
181	Sliding mode control with third-order contour error estimation for free-form contour following. **2020**, 66, 282-294		5
180	Simultaneous servo error pre-compensation and feedrate optimization with tolerance constraints using linear programming. *International Journal of Advanced Manufacturing Technology*, **2020**, 109, 809-821	3.2	6
179	Optimal Selection of Basis Functions for Robust Tracking Control of Linear Systems using Filtered Basis Functions. **2020**,		
178	MIMO multirate feedforward controller design with selection of input multiplicities and intersample behavior analysis. **2020**, 71, 102442		1
177	Improvement of Response Speed Characteristics of Fast Steering Mirror based on Zero Phase Error Tracking Controller. **2020**,		
176	MPC-based robust contouring control for a robotic machining system. **2020**, 23, 1212		2
175	U-model enhanced control of non-minimum phase systems. **2020**, 51, 3146-3162		0
174	Model Predictive Contouring Control for Biaxial Feed Drive System. **2020**,		2
173	Effective Clamping Force Control for Electromechanical Brake System. **2020**,		1
172	A Tutorial on PES Pareto Methods for Analysis of Noise Propagation in Feedback Loops. **2020**,		1

171	A new decoupled tangential contouring control scheme for multi-dimensional motion. **2020**, 151, 103944		5
170	A novel curvature circle iterative algorithm for contour error control of multi-axis CNC machine tools. **2020**, 65, 23-31		5
169	Torque Control of a Series Elastic Tendon-Sheath Actuation Mechanism. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 2915-2926	5.5	5
168	Auto-tuning of model-based feedforward controller by feedback control signal in ultraprecision motion systems. *Mechanical Systems and Signal Processing*, **2020**, 142, 106764	7.8	3
167	Neuro-fuzzy iterative learning control for 4-poster test rig. **2020**, 42, 2262-2275		1
166	Parallel Implementation of Iterative Learning Controllers on Multi-core Platforms. **2020**,		
165	Real-time exact contour error calculation of NURBS tool path for contour control. *International Journal of Advanced Manufacturing Technology*, **2020**, 108, 2803-2821	3.2	4
164	. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 547-557	5.5	6
163	. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 2556-2564	5.5	5
162	Quantitative Tracking Error Analysis and Feedforward Compensation Under Different Model-Based Feedforward Controllers in Different Control Architectures. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 381-390	8.9	4
161	Enhanced Odd-Harmonic Repetitive Control of Nanopositioning Stages Using Spectrum-Selection Filtering Scheme for High-Speed Raster Scanning. **2021**, 18, 1087-1096		2
160	Constrained Model Predictive Contour Error Control for Feed Drive Systems with Uncertainties. **2021**, 19, 209-220		1
159	A digital charge control strategy for reducing the hysteresis in piezoelectric actuators: Analysis, design, and implementation. **2021**, 67, 370-382		3
158	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 8412-8421	8.9	4
157	. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	0
156	A linear hybrid model for enhanced servo error pre-compensation of feed drives with unmodeled nonlinear dynamics. **2021**, 70, 301-304		1
155	Intelligent Learning Control Strategies for Speed Control of DC Motor. **2021**, 937-951		
154	Improved Odd-Harmonic Repetitive Control Scheme for Cuk-derived Inverter. **2021**, 1-1		3

153	Simplified Realization of Zero Phase Error Tracking. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2021**, 143,	1.6	3
152	Data-driven parameter tuning for rational feedforward controller: Achieving optimal estimation via instrumental variable. **2021**, 15, 937-948		3
151	Multirate Feedforward Control based on Modal Form with Mode Selection Applied to Multi-Modal High-Precision Positioning Stage. **2021**,		
150	Suppression of harmonic positioning errors in ball-screw drives using Adaptive Feedforward Cancellation. **2021**, 68, 235-255		2
149	Torque Ripple Reduction for PMSM based on PWM Pulse Merging Method for High Speed Range. **2021**,		
148	On Digital Periodic Controllers. **2021**,		
147	Vibration Control of Flexible Joint Robots Using a Discrete-Time Two-Stage Controller Based on Time-Varying Input Shaping and Delay Compensation. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2021**, 143,	1.6	1
146	Iterative Learning Control for a Class of Multivariable Distributed Systems With Experimental Validation. *IEEE Transactions on Control Systems Technology*, **2021**, 29, 949-960	4.8	3
145	Accurate and computationally efficient approach for simultaneous feedrate optimization and servo error pre-compensation of long toolpaths with application to a 3D printer. *International Journal of Advanced Manufacturing Technology*, **2021**, 115, 2069-2082	3.2	
144	Optimal Selection of Basis Functions for Robust Tracking Control of Uncertain Linear Systems With Application to Three-Dimensional Printing. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2021**, 143,	1.6	1
143	Variable-parameter-model-based iterative pre-compensation method of the tracking error. *Mechanical Systems and Signal Processing*, **2021**, 156, 107687	7.8	3
142	Contour Error Control of X-Y Motion Platform Based on Robust Predictive. **2021**,		1
141	Quasi Multirate Feedforward Current Control toward Nyquist Frequency of PWM for SPMSM. *IEEJ Journal of Industry Applications*, **2021**, 10, 428-435	0.7	0
140	Iterative learning control with discrete-time nonlinear nonminimum phase models via stable inversion.		0
139	Control System Design for Electromechanical Brake System Using Novel Clamping Force Model and Estimator. **2021**, 70, 8653-8668		1
138	A large range compliant XY nano-manipulator with active parasitic rotation rejection. **2021**, 72, 640-652		4
137	Design and precision tracking control of a high-bandwidth fast steering mirror for laser beam machining. **2022**, 73, 128-139		3
136	. **2021**, 1-1		2

135	Prediction and Compensation of Contour Error of CNC Systems Based on LSTM Neural-Network. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	4
134	Microactuators for Dual-Stage Servo Systems in Magnetic Disk Files. **2004**, 951-981		2
133	Dynamic Issues in Robot Visual-Servo Systems. **1996**, 488-498		5
132	Auto-Tuning and Adaptive Control. *Advances in Industrial Control*, **2014**, 87-107	0.3	1
131	Adaptive Notch Filter Control for the Torsion Vibration in Lead-Screw Feed Drive System Based on Neural Network. **2008**, 803-812		3
130	Optimal Preview Controllers Based upon Explicit Trajectory Models. **1990**, 35, 273-294		2
129	Improving mechanical ventilation for patient care through repetitive control. *IFAC-PapersOnLine*, **2020**, 53, 1415-1420	0.7	4
128	Integrated terminal sliding with enhanced repetitive control for nono-positioing stage. **2016**,		2
127	The Impact of Nonminimum-Phase Zeros on Human-in-the-Loop Control Systems. **2020**, PP,		2
126	Concurrent Design of Continuous Zero Phase Error Tracking Controller and Sinusoidal Trajectory for Improved Tracking Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2001**, 123, 127-129	1.6	13
125	Multi-Rate Feedforward Tracking Control for Plants With Nonminimum Phase Discrete Time Models. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2001**, 123, 556-560	1.6	5
124	Optimal Selection of Basis Functions for Minimum-Effort Tracking Control of Nonminimum Phase Systems Using Filtered Basis Functions. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141,	1.6	2
123	A New Analytical Path-Reshaping Model and Solution Algorithm for Contour Error Pre-Compensation in Multi-Axis Computer Numerical Control Machining. **2020**, 142,		7
122	A Review of Manufacturing Process Control. **2020**, 142,		4
121	Feedforward actuator controller development using the backward-difference method for real-time hybrid simulation. **2014**, 14, 1081-1103		13
120	Achievement Method of High-Speed Response of Error Prediction Tracking Control for Optical Disk System. *IEEJ Transactions on Industry Applications*, **2007**, 127, 942-949	0.2	1
119	Load Current Feedforward Control of Boost Converter for Downsizing the Output Filter Capacitor. *IEEJ Transactions on Industry Applications*, **2015**, 135, 457-466	0.2	3
118	Integral Sliding Mode Control for Fast Tool Servo Diamond Turning of Micro-Structured Surfaces. **2011**, 5, 4-10		18

117	Synchronisation of Feed Axes with Differing Bandwidths Using Set Point Delay. **2017**, 11, 155-164		2
116	Motion Accuracy Enhancement of Five-Axis Machine Tools by Modified CL-Data. **2018**, 12, 699-706		8
115	Improvement of Simultaneous 5-Axis Controlled Machining Accuracy by CL-Data Modification. **2019**, 13, 583-592		3
114	Use of Cranes in Education and International Collaborations. **2011**, 23, 881-892		5
113	Reducci⊠ de la impedancia de salida en inversores monof⊠icos para UPS con multi-lazo convencional y plug-in repetitivo. **2019**, 16, 391		4
112	Development of Zero-Phase-Tracking Man-Machine Interfacewith Electro-Mechanical Delay of Electromyogram. **2012**, 30, 767-778		3
111	A Design Method of a Full Closed Loop Sampled Servo Control for Hard Disk Drive. *SICE Journal of Control Measurement and System Integration*, **2008**, 1, 242-250	0.3	2
110	Adaptive Repetitive Control with On-line Estimation of Multiple Periods. *Transactions of the Society of Instrument and Control Engineers*, **2009**, 45, 243-250	0.1	2
109	Quadratic Optimality of the Zero-Phase Repetitive Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2001**, 123, 554-555	1.6	1
108	Robust Feedfoward Control System considering Sudden Disturbance for Optical Disk Recording System. *IEEJ Transactions on Industry Applications*, **2004**, 124, 1197-1204	0.2	5
107	Microactuators for Dual-Stage Servo Systems in Magnetic Disk Files. **2004**, 951-981		
106	Energy Factor Application in AC and DC Motor Drives. **2005**, 314-347		0
105	Short-Span Seeking Control of Hard Disk Drive with Vibration Suppression PTC. *IEEJ Transactions on Industry Applications*, **2006**, 126, 706-712	0.2	7
104	Force Sensor-less Robust Tracking Servo System Suppressing Periodic Disturbance and Sudden Disturbance for Optical Disk System. *IEEJ Transactions on Industry Applications*, **2006**, 126, 1374-1381	0.2	2
103	Monitoring and Control of Machining. **2006**, 1-32		4
102	Microactuators for Dual-Stage Servo Systems in Magnetic Disk Files. **2007**, 1509-1544		
101	Real-Time Synthesis and Control by Corrected Inverse Transfer Function of NC Tables. **2008**, 74, 72-76		6
100	Real-time Compensation of Circular Interpolation Motion Error by Inverse Transfer Function Based on Friction Analysis. **2008**, 74, 616-621		

99	High-Performance Error Prediction Robust Tracking Control System for High Speed Optical Disk Recording Equipment. *IEEJ Transactions on Industry Applications*, **2008**, 128, 785-792	0.2	4
98	Kalman Estimator-Based State-Feedback High-Precision Positioning Control for a Micro-scale Air-Bearing Stage. **2009**, 765-775		
97	. **2009**, 27, 410-413		2
96	Advances in Data-driven Optimization of Parametric and Non-parametric Feedforward Control Designs with Industrial Applications. **2009**, 167-184		
95	Adaptive Control for Feed Drives Considering Coupling Effects Among Multiple Axes. **2010**, 4, 45-52		1
94	Compensation of Harmonic Disturbances within Nyquist Frequency in Hard Disk Drives. **2010**, 16, 872-875		
93	Analysis of Filter Designed on the Basis of Short-Span Seeking Control of Hard Disk Drives with Learning-Based PTC. *IEEJ Transactions on Industry Applications*, **2011**, 131, 350-356	0.2	
92	PERFECT TRACKING CONTROL WITH DISCRETE-TIME LQR FOR A NON-MINIMUM PHASE ELECTRO-HYDRAULIC ACTUATOR SYSTEM. *International Journal on Smart Sensing and Intelligent Systems*, **2011**, 4, 424-439	0.4	10
91	A Study on the Motion Analysis and Lead-Filter Design for High Speed/Accuracy Movement of Gantry Robot. **2011**, 17, 31-37		2
90	Tracking Control of an XY Stage by Considering Suppression of Machine-Stand Vibration. *IEEJ Transactions on Industry Applications*, **2011**, 131, 237-243	0.2	
89	NON-MINIMUM PHASE MODEL OF VERTICAL POSITION ELECTRO-HYDRAULIC CYLINDER FOR TRAJECTORY ZPETC. *International Journal on Smart Sensing and Intelligent Systems*, **2012**, 5, 504-520	0.4	2
88	Tracking Control System with Equivalent Perfect Tracking Control for Optical Disks. *IEEJ Transactions on Industry Applications*, **2012**, 132, 1121-1130	0.2	0
87	Energy-Efficient Power Assist Control Methods for Periodic Motions. *Transactions of the Institute of Systems Control and Information Engineers*, **2012**, 25, 28-38	0.1	1
86	Control System for Suppressing Tracking Error Offset and Multiharmonic Disturbance in High-Speed Optical Disk Systems. *IEEJ Transactions on Industry Applications*, **2012**, 132, 347-356	0.2	1
85	TRAJECTORY ADAPTIVE ZPET CONTROLLER WITHOUT FACTORIZATION OF ZEROS FOR NON-MINIMUM PHASE SYSTEM IN APPLICATION TO REAL-TIME DIGITAL TRACKING CONTROL OF ELECTRO-HYDRAULIC ACTUATOR. *International Journal on Smart Sensing and Intelligent Systems*, **2013**, 6, 383-402	0.4	
84	Direct and Indirect Adaptive Process Control. *Advances in Industrial Control*, **2014**, 109-131	0.3	
83	Wavelet Transform Based Frequency Tuning ILC. *Advances in Industrial Control*, **2014**, 103-126	0.3	
82	Adaptive Discrete Sliding Mode Control for a Non-minimum Phase Electro-Hydraulic Actuator System. *Lecture Notes in Electrical Engineering*, **2014**, 3-14	0.2	1

81	DISCRETE-TIME ADAPTIVE CONTROL FOR CONTINUOUS-TIME SYSTEMS USING LIMITING-ZERO MODEL AND ITS APPLICATION. **1990**, 113-118		
80	Theoretical Aspects of Lightweight Robot Control. **1993**, 8-38		
79	Motion control and identification techniques for machine tool axes. **1995**, 132-144		
78	Adaptive calibration of feedforward controllers for nonminimum-phase tracking systems. **1999**,		1
77	Periodic, Multi-Step Tracking Control for a Weather Satellite Scanning Mirror1. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2001**, 123, 85-92	1.6	
76	Trajectory Tracking Control for Precision Servo Technology. *Journal of the Institute of Electrical Engineers of Japan*, **2017**, 137, 11-14	0	0
75	Perfect Tracking Control Method by Multirate Feedforward and State Trajectory Generation based on Time Axis Reversal. *IEEJ Transactions on Industry Applications*, **2017**, 137, 469-477	0.2	
74	Deadbeat Feedforward Compensation with Frequency Shaping of Position Feedforward Controller. *IEEJ Journal of Industry Applications*, **2017**, 6, 100-106	0.7	0
73	Model-based Control Techniques for Large-Scale High-Precision Stage. *IEEJ Transactions on Industry Applications*, **2020**, 140, 272-280	0.2	
72	Suppressing Position-Dependent Disturbances in Repetitive Control: With Application to a Substrate Carrier System. **2020**,		2
71	Comprehensive Design Method of a High-Frequency-Response Fast Tool Servo System Based on a Full-Frequency Error Control Algorithm. *Micromachines*, **2021**, 12,	3.3	0
70	Gaussian Process Repetitive Control for Suppressing Spatial Disturbances. *IFAC-PapersOnLine*, **2020**, 53, 1487-1492	0.7	4
69	Output Perfect Tracking Control for a Plant with PWM-Type Input. *IFAC-PapersOnLine*, **2020**, 53, 8351-8356	0.7	
68	Frequency Response Data-based Disturbance Observer Design via Convex Optimization. *IFAC-PapersOnLine*, **2020**, 53, 8619-8624	0.7	0
67	Recent Results in Reference Prefiltering for Precision Motion Control. *IFAC-PapersOnLine*, **2020**, 53, 8656-8667	0.7	0
66	A Design Method of High Order Repetitive Controllers. *IFAC-PapersOnLine*, **2020**, 53, 4440-4445	0.7	0
65	Feedforward Tracking Controller Design Based on a Limited Bandwidth Desired Model. **2002**, 574-578		
64	Advanced Controls for New Machining Processes. **2009**, 159-218		

63	Steady state feedforward compensation for discrete-time multivariable systems. **1991**, 310-334		
62	Positioning Vibration Suppression for Two-Axis Servo System based on Drive Control. **2020**,		
61	Bandwidth Maximization of Disturbance Observer Based on Experimental Frequency Response Data. *SICE Journal of Control Measurement and System Integration*, **2020**, 13, 257-264	0.3	0
60	Velocity Control of Pneumatic Motor Attached to Retrofit-type Steering Handle for Autonomous Navigation of Conventional Six-wheeled Dump Truck. *Transactions of the Society of Instrument and Control Engineers*, **2021**, 57, 433-444	0.1	
59	E-Teaching High Accuracy Motion Control Techniques in Covid 19 time. **2021**,		
58	. *IEEE Open Journal of Industry Applications*, **2021**, 1-1	4.7	0
57	Linear Matrix Inequality Based Data-driven Disturbance Observer Design: Application to a Non-Minimum Phase Motion Stage. *IEEJ Journal of Industry Applications*, **2021**,	0.7	
56	Simulation-based optimization of CNC interpolator parameters for machining accuracy improvement. *International Journal of Advanced Manufacturing Technology*, 1	3.2	0
55	Local Path Planning Using Artificial Potential Field for Waypoint Tracking with Collision Avoidance. **2020**,		5
54	Novel Cross-coupling Position Command Shaping Controller using H in Multi-axis Motion System. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	1
53	Robust tracking with FPGA for high-speed laser galvanometer scanning. **2021**,		
52	Linear repetitive control for a nonlinear mechanical ventilation system using feedback linearization. **2021**,		0
51	Robust Repetitive Control of Nanopositioning Stages Using the Spectrum-Selection Filter With Narrow Passbands. *IEEE/ASME Transactions on Mechatronics*, **2022**, 1-6	5.5	0
50	Development of a Grinding Tool with Contact-Force Control Capability. *Electronics (Switzerland)*, **2022**, 11, 685	2.6	0
49	A Gaussian Process Approach to Multiple Internal Models in Repetitive Control. **2022**,		
48	Input shaping for travelling wave generation. *Smart Materials and Structures*, **2022**, 31, 055006	3.4	
47	Model-free repetitive control design and implementation for dynamical galvanometer-based raster scanning. *Control Engineering Practice*, **2022**, 122, 105124	3.9	
46	Gaussian process repetitive control: Beyond periodic internal models through kernels. *Automatica*, **2022**, 140, 110273	5.7	1

45	Mechanical design and determination of bandwidth for a two-axis inertial reference unit. *Mechanical Systems and Signal Processing*, **2022**, 172, 108962	7.8	0
44	Research on High Speed and High Precision Control Method Used in Semiconductor Packaging System. **2021**,		1
43	Intermittent Sampling in Repetitive Control: Exploiting Time-Varying Measurements. **2021**,		
42	Real-time tool path modification for machine tool contour error reduction. *International Journal of Advanced Manufacturing Technology*, **2022**, 120, 6969	3.2	
41	Shifting Zeros of Pulse Modulation Driven Systems via Exact Linearization Using Multi-Degree-of-Freedom Pulses. *IEEE Transactions on Control Systems Technology*, **2022**, 1-12	4.8	
40	Adaptive Friction Compensation for a Novel Two-Axis Differential Microfeed System. *Shock and Vibration*, **2022**, 2022, 1-10	1.1	
39	Robust Periodical Tracking for Fast Tool Servo Systems with Selective Disturbance Compensation. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2022**,	1.6	
38	E-Teaching High Accuracy Motion Control Techniques in Covid-19 time. **2021**,		
37	Line of sight control of an image-based tracking system using YoulaKucera parameterization. *Optical Engineering*, **2022**, 61,	1.1	
36	Measurement-based two-layer optimization scheme for machining system with repetitive and batch characteristics. *International Journal of Advanced Manufacturing Technology*, **2022**, 121, 2553-2563	3.2	
35	Position Tracking for Multi-Channel Double-Crystal Monochromator Scanning Based on Iterative Learning Control. *Actuators*, **2022**, 11, 177	2.4	
34	Data-Driven Iterative Learning Control of Nonlinear Systems by Adaptive Model Matching. *IEEE/ASME Transactions on Mechatronics*, **2022**, 1-11	5.5	0
33	A survey of modeling and control in ball screw feed-drive system. *International Journal of Advanced Manufacturing Technology*, **2022**, 121, 2923-2946	3.2	1
32	Precision tracking control of a dual-stage measuring machine. *Automatisierungstechnik*, **2022**, 70, 646-660	0.8	
31	Real-Time Iterative Compensation Framework for Precision Mechatronic Motion Control Systems. *IEEE/CAA Journal of Automatica Sinica*, **2022**, 9, 1218-1232	7	2
30	High-Accuracy Oriented CILC Motion Control of Mechatronic Systems with Comparative Experiments. **2022**,		1
29	Methods of Intelligent Control in Mechatronics and Robotic Engineering: A Survey. **2022**, 11, 2443		1
28	Design, modeling, and test of a normal-stressed electromagnetic actuated compliant nano-positioning stage. **2023**, 185, 109753		0

27	Robust Control of Dual-Linear-Motor-Driven Gantry Stage for Coordinated Contouring Tasks Based on Feed Velocity. **2022**, 1-10	1
26	Gaussian Process Repetitive Control With Application to an Industrial Substrate Carrier System With Spatial Disturbances. **2022**, 1-15	0
25	Comparative Study of Performance-Oriented Feedforward Compensation Strategies for Precision Mechatronic Motion Systems. **2022**, 10, 100812-100823	0
24	Physics-Guided Neural Networks for Feedforward Control: An Orthogonal Projection-Based Approach. **2022**,	1
23	Adaptive Feedforward Reference Design for Active Vibration Rejection in Multi-Actuator Hard Disk Drives. **2022**,	0
22	Using IIR Filter in Fractional Order Phase Lead Compensation PIMR-RC for Grid-Tied Inverters. **2022**, 1-10	2
21	Generalized Proportional Integral Observer Based Sliding Mode Control for Biaxial Motion Control System with Mismatched Disturbances. **2022**,	0
20	Active Cross Pre-Compensation Decoupling Control of X-Y Linear Motor Platform Based on Contour Error Analysis Model. **2022**, 10, 118590-118600	0
19	Design of Fractional Order Odd-Harmonics Repetitive Controller for Discrete-Time Linear Systems with Experimental Validations. **2022**, 22, 8873	0
18	State-tracking iterative learning control in frequency domain design for improved intersample behavior.	0
17	Discrete-Time Design of Dual Internal Model-Based Repetitive Control Systems. **2022**, 12, 11746	0
16	Motion profile and control design of fast steering mirror for backscanning step and stare imaging. **2023**, 94, 014501	0
15	The optimal design of repetitive controllers based on inverse frequency response.	0
14	Gain-scheduling robust control with guaranteed stability for ball screw drives with uncertain load mass and varying resonant modes. **2023**, 80, 198-207	0
13	Advanced LARC Strategy of Maglev Planar Motor with GRU Neural Network Prediction. **2022**,	0
12	A velocity planning algorithm of high speed dispensing based on wavelet transform optimization. **2022**,	0
11	A Data-driven Feedforward Control Design Method for Nonlinear Systems. **2022**, 288-295	0
10	Global toolpath modulation based contour error pre-compensation for multi-axis CNC machining.	1

9	Pre-compensation of contour errors for five-axis machine tools through constructing a model reference adaptive control. **2023**, 183, 105258	1
8	Low-order sliding mode repetitive control for uncertain linear systems perturbed by band-limited periodic disturbances. 095965182311655	0
7	Design of a Trajectory Tracking Controller for Precision Motion Platform. **2023**, 733-739	0
6	Digital Tracking Control of a Cylindrical Voice-Coil Actuator. **2022**,	0
5	A Physics-Guided Data-Driven Feedforward Tracking Controller for Systems With Unmodeled DynamicsⅡApplied to 3D Printing. **2023**, 11, 14563-14574	0
4	Solution method for time-frequency responds of servo control systems based on frequency domain characteristics. 002029402311583	0
3	A positioning method of permanent magnet synchronous linear motor based on fuzzy iterative learning control. **2022**,	0
2	Cascaded iterative learning motion control of precision maglev planar motor with experimental investigation. **2023**,	0
1	Surface form inspection with contact coordinate measurement: a review. **2023**, 5, 022006	0