



Advances in
**High-Performance
Motion Control of
Mechatronic Systems**



Edited by
Takashi Yamaguchi
Mitsuo Hirata
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Advances In High Performance Motion Control Of Mechatronic Systems

IEEE Control Systems Society



Advances In High Performance Motion Control Of Mechatronic Systems:

Advances in High-Performance Motion Control of Mechatronic Systems Takashi Yamaguchi, Mitsuo Hirata, Chee Khiang Pang, 2017-12-19 Mechatronic systems are used in a range of consumer products from large scale braking systems in vehicular agents to small scale integrated sensors in mobile phones To keep pace in the competitive consumer electronics industry companies need to continuously improve servo evaluation and position control of these mechatronic systems Advances in High Performance Motion Control of Mechatronic Systems covers advanced control topics for mechatronic applications In particular the book examines control systems design for ultra fast and ultra precise positioning of mechanical actuators in mechatronic systems The book systematically describes motion control design methods for trajectory design sampled data precise positioning transient control using switching control and dual stage actuator control Each method is described in detail from theoretical aspects to examples of actual industry applications including hard disk drives optical disk drives galvano scanners personal mobility robots and more This helps readers better understand how to translate control theories and algorithms from theory to design and implementation in realistic engineering systems The book also identifies important research directions and advanced control techniques that may provide solutions for the next generation of high performance mechatronics Bridging research and industry this book presents state of the art control design methodologies that are widely applicable to industries such as manufacturing robotics home appliances automobiles printers and optical drives It guides readers toward more effective solutions for high performance mechatronic systems in their own products

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7th International Workshop on Advanced Motion Control 2002, 2002 IEEE/ASME International Conference on Advanced Intelligent Mechatronics Proceedings, 2005 *Proceedings*, 2004 *Mechatronic Systems and Materials III* Zdzisław Gosiewski, Zbigniew Kulesza, 2009-01-06 Volume is indexed by Thomson Reuters BCI WoS This very interesting volume is divided into 24 sections each of which covers in detail one aspect of the subject matter I Industrial robots II Microrobotics III Mobile robots IV Teleoperation telerobotics teleoperated semi autonomous systems V Sensors and actuators in mechatronics VI Control of mechatronic systems VII Analysis of vibration and deformation VIII Optimization optimal design IX Integrated diagnostics X Failure analysis XI Tribology in mechatronic systems XII Analysis of signals XIII Measurement techniques XIV Multifunctional and smart materials XV Metallic alloys XVI Biomaterials XVII Functional composites XVIII Adaptive materials XIX Piezoelectric materials XXI Ceramics and glasses XXII New trends in mechatronic and materials science education XXIV Teaching materials and laboratory facilities *Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD)*, 2000 *IETE Technical Review*, 2005 **IUTAM Symposium on Interaction Between Dynamics and Control in Advanced Mechanical Systems** Dick H. van Campen, 1997-03-31 The proceedings of the April 1996 symposium address a wide variety of applications ranging from vehicle systems to mechatronic systems Further they illuminate the relevancy of more fundamental areas such as control of chaos and optimal control The 51 contributions promote theoretical and applied investigations with respect to the interaction of dynamics and control in advanced engineering applications Additional topics include motion control dynamics and bifurcation of nonlinear systems modelling and dynamics of engineering systems vibration control adaptive control optimization and control mechatronic systems modelling control of engineering systems system identification and analysis and control of nonlinear systems Papers are arranged alphabetically by the first author's last name and there is an author index only no subject index Annotation copyrighted by Book News Inc Portland OR Advanced Research on Industry, Information System and Material Engineering, IISME2011 Helen Zhang, Gang Shen, David Jin, 2011-02-21 Selected peer reviewed papers from the 2011 International Conference on Industry Information System and Material Engineering IISME 2011 April 16 17 2011 Guangzhou China **Final Program & Abstracts**, 1997 **The Proceedings of the Third IEEE Conference on Control Applications, August 24th-26th, 1994, Venue, the University of Strathclyde, Glasgow, Scotland, UK** IEEE Control Systems Society, 1994 *The Proceedings of the Third IEEE Conference on Control Applications* IEEE Control Systems Society, 1994 *International Aerospace Abstracts*, 1999 **Embodying Intelligence in Structures and Integrated Systems** Pietro Vincenzini, Fabio Casciati, 2008-09-02 CIMTEC 2008 Selected peer reviewed papers from the Symposium C Embodying Intelligence in Structures and Integrated Systems of CIMTEC 2008 3rd International Conference Smart Materials Structures and Systems held in Acireale Sicily Italy June 8 13 2008

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