



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



Edited by  
Takeshi Yamaguchi  
Masao Minato  
Chee-Khian Pang

# 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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Advances in High Performance Motion Control Systems Dongjun Zhang,2009 Mechatronic Systems and Materials IV Zdzisław Gosiewski,Zbigniew Kulesza,2013-03-11 Volume is indexed by Thomson Reuters BCI WoS The 121 peer reviewed papers on Mechatronic Systems and Materials are grouped as follows I Robotics Industrial Robots Microrobotics II Mobile Robots III Unmanned Aerial Vehicles IV Teleoperation Telerobotics Teleoperated Semi Autonomous Systems V Sensors and Actuators in Mechatronics VI Control of Mechatronic Systems VII Analysis of Vibration and Deformation Mechatronics Sabri Cetinkunt,2007 Mechatronics is the design and development of computer controlled mechanical systems such as the fuel efficient engine of today's family car This comprehensive book brings together the knowledge and techniques of the major technical fields and explores the theory behind a wide range of basic devices It then brings all this knowledge together in various motion control lab experiments which provide readers with practical experience in designing circuits and writing software Midwest Mechatronic Systems 2004 S. O. Reza Moheimani,2005

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