

TABLE OF CONTENTS

Volume 2 Number 1

February 2011

Distributed H_∞ Consensus of High-Order Multi-Agents with Nonlinear Dynamics

J. Z. Li.....1

Unified Modeling Approach of Kinematics, Dynamics and Control of a Free-Flying Space Robot

Interacting with a Target Satellite

M. Shibli.....8

α -Siphons of a Suboptimal Control Model of a Subclass of Petri Nets

D. Y. Chao.....24

Nonlinear Steam Valve Adaptive Controller Design for the Power Systems

N. Jiang, X. Y. Chen, T. Liu, B. Liu, Y. W. Jing.....31

Control of Poly-Articular Chain Trajectory Using Temporal Sequence of Its Joints Displacements

P. Legreneur, T. Creveaux, V. Bels.....38

Optimal Risk-Sensitive Filtering for System Stochastic of Second and Third Degree

M. A. Alcorta-Garcia, S. G. A. Rostro, M. T. Torres.....47

The figure on the front cover is from the article published in Intelligent Control and Automation, 2011, Vol. 2, No. 1, pp. 8-23, by Murad Shibli.