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# **Variable Structure Systems, Sliding Mode and Nonlinear Control**



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# Foreword

This volume of work has been selected from papers presented at VSS'98 (5th International Workshop on Variable Structure Systems) held in Sarasota, Florida. This workshop was the fifth in a series of VSS international workshops, and the first to be held in the United States.

The initiator of this workshop series, Dr. Asif Sabanovic first organized and chaired VSS'90 in Sarajevo amidst the warmth of the Bosnian people and the spectacular surroundings. Since then an international workshop has been organized and held biennially. The second workshop was in 1992 (Sheffield, UK) and the third in 1994 (Benevento, Italy). VSS'96 (Tokyo, Japan) was the first in the series to be held outside Europe.

Work presented herein on theoretical developments and applications on VSS and Sliding Mode, reflects how trends have advanced beyond the original ideas that are now well documented in a number of books and research monographs. In particular, the concepts of Sliding Sector and Second Order Sliding Mode introduced in this volume, will stimulate discussions and invite further extensions. Also, the focus on Sampled Data systems represents a positive trend towards practical industrial implementations of sliding mode controllers.

K. David Young, Hong Kong  
Ümit Özgüner, Columbus, Ohio, USA

# Contents

Sliding Sector for Variable Structure System <i>K. Furuta and Y. Pan</i> .....	1
On Discrete Variable Structure Control with Switching Sector <i>C. Y. Tang and E. A. Misawa</i> .....	27
Variable Structure Control of Nonlinear Sampled Data Systems by Second Order Sliding Modes <i>G. Bartolini, A. Pisano and E. Usai</i> .....	43
On Sampled Data Variable Structure Control Systems <i>J.-X. Xu, F. Zheng and T. H. Lee</i> .....	69
Sliding Mode Control of Systems with Delayed States and Controls <i>X. Li and S. Yurkovich</i> .....	93
On Global Stabilization of Nonlinear Dynamical Systems <i>X. Yu, Y. Wu and M. Zhihong</i> .....	109
A General Canonical Form for Sliding Mode Control of Nonlinear Systems <i>H. Sira-Ramírez</i> .....	123
Handling Stiction with Variable Structure Control <i>C. Hatipoglu and Ü. Özgüner</i> .....	143
Equivalent Value Filters in Disturbance Estimation and State Observation <i>I. Haskara and Ü. Özgüner</i> .....	167
Sliding Mode Control of a Car-Like Mobile Robot Using Single-Track Dynamic Model <i>A. Stotsky and X. Hu</i> .....	181
Park Vector Based Sliding Mode Control of UPS With Unbalanced and Nonlinear Load <i>P. Korondi and H. Hashimoto</i> .....	193

Dynamical Adaptive Sliding Mode Control of Observable Minimum-Phase Uncertain Nonlinear Systems <i>M. Ríos-Bolívar and A. S. I. Zinober</i> .....	211
Symbolic Computing Tools for Nonsmooth Dynamics and Control <i>C. Teolis, H.G. Kwatny and M. Mattice</i> .....	237
Sliding Mode Control with Gain Scheduled Hyperplane for LPV Plant <i>K. Nonami and S. Sivrioglu</i> .....	263
A Study on Parameterized Output Feedback Sliding Mode Controller <i>K. Nonaka and K. Furuta</i> .....	281
Sliding Mode Tracking Control of Systems with Unstable Zero Dynamics <i>H.-S. Jeong and V. I. Utkin</i> .....	303
On Second Order Sliding Mode Controllers <i>G. Bartolini, A. Ferrara, A. Levant and E. Usai</i> .....	329
A Tale of Two Discontinuities <i>K. D. Young</i> .....	351
The Problem of Chattering: an Averaging Approach <i>L. Fridman</i> .....	363