
Contents

SPECIAL ISSUE: MODELLING AND/OR CONTROL OF MULTI-VEHICLE FORMATIONS

Guest Editors: Dr. Lotfi Beji and Professor Azgal Abichou

- 1 **Preface**
Lotfi Beji and Azgal Abichou
- 5 **Coordination of industrial AGVs**
Roberto Olmi, Cristian Secchi and Cesare Fantuzzi
- 26 **Formation vector control of nonholonomic mobile robot groups and its experimental verification**
Hiroaki Yamaguchi, Yoichi Kanbo and Atsushi Kawakami
- 46 **Platooning over packet-dropping links**
S. Seshadhri and R. Ayyagari
- 63 **Towards a unifying mathematical framework for pattern transformation in swarm systems**
Blesson Varghese and Gerard McKee
- 78 **Multi-vehicle dynamics and control for aerial recovery of micro air vehicles**
Mark B. Colton, Liang Sun, Daniel C. Carlson and Randal W. Beard
- 108 **Co-leaders and a flexible virtual structure based formation motion control**
A. Essghaier, L. Beji, M.A. El Kamel, A. Abichou and J. Lerbet
- 126 **Automated short distance vehicle following using a dynamic base RTK system**
William Travis, Scott Martin and David M. Bevly