

## CONTENTS – Special Issue for Biomechanical Engineering

- 1 Preface for the Special Issue of the International Journal of Mechanics and Control (JoMaC) dedicated to BIOMECHANICAL ENGINEERING**  
*C. Ferraresi*
- 3 Accuracy of Anatomical Landmark Placement Methods for Gait Analysis**  
*K. Rácz, G. Nagymáté, T. Kovács, T. Bodzay and R.M. Kiss\**
- 11 Portable Low-Cost Smart Brace for Elbow Rehabilitation**  
*C. De Benedictis, C. Ferraresi, W. Franco, L. Franzoso, R. Grassi, D. Maffiodo and D. Zanin*
- 19 Metabolic Power and Energy Cost of Mechanical Work Carried Out by a Sailor Engaged in a Solo Ocean Race: a Case Study**  
*W.C. Wu, A. Concu, R. Solinas, L. Meloni, A. Manuello Bertetto, A. Fois, A. Loviselli, A. Deledda and F. Velluzzi*
- 33 Correlation Between Mechanical and Metabolic Energy During the Gait Cycle With and Without Jumping Stilts**  
*A. Concu, M. Garau, A. Manuello Bertetto and M. Ruggiu*

## CONTENTS – Regular Issue

- 39 Development of the Mathematical Description of a Overhead Crane in Large Spatial Movements, taking into account the Dissipation of Swing Energy**  
*M.S. Korytov and I.V. Breus*
- 45 Self Learning Neuro-Fuzzy Modeling Using Hybrid Genetic Probabilistic Classifier for Engine Air/Fuel Ratio Prediction**  
*B.A. Al-Himyari, A. Yasin and H. Gitano*
- 55 Optimal Proportional-Derivative Controllers Based on a Multi-Objective Combined Optimization Algorithm**  
*M.J. Mahmoodabadi, M. Andalib Sahnesharaei, S. Hadipour Lakmesari and H. Yaghoubi Nia\**
- 65 Analysis and Design of a Picking System**  
*A. Aresu, F. Leppori and M. T. Pilloni*
- 81 Logistics Service Providers' Performance Measurement: Insights for Improvement**  
*A. Carlin, A.C. Cagliano and C. Rafele*
- 95 Novel Metaheuristic Bio-Inspired Algorithms for Prognostics of On-Board Electromechanical Actuators**  
*M.D.L. Dalla Vedova, P.C. Berri and S. Re*

*next issue titles will be from the selected and awarded papers of:*

**RAAD 2018 - 27<sup>th</sup> International Conference on Robotics in Alpe-Adria-Danube Region**

Patras, Greece,  
6 – 8 June 2018