International Journal of Modeling and Optimization

CONTENTS

Volume 7, Number 6, December 2017

- **System Simulation Modeling and Numerical Analysis**

A Mechanical Model for an Artificial Oocyte.....315
Amir M. Hajiyavand, Mozafar Saadat, and Artemis Stamboulis

Model-Driven Engineering Approach for Simulating Virtual Devices in the OSATE 2 Environment.....322
Fáber D. Giraldo and Mónica M. Villegas

- **Operations Research and Optimization**

A New Model for Location and Transportation Problem of Cross-Docks in Distribution Networks.....327
A. Hasani Goodarzi and S. H. Zegordi

Unequal Area Facility Layout Problem Design Based on Mixed Integer Programming.....332
Randa Adi Saputra, Komarudin, and Billy Muhamad Iqbal

- **Information Science and Applications**

Analysis of the Histogram Intersection Kernel for Use in Bayesian Optimization.....337
Dennis Becker

Cloud-Assisted Safe Driving Framework.....346
Chia Hung Kao

Predicting the Typhoons in the Philippines Using Radial Basis Function Neural Network.....352
Jane Colleen T. Ventura, R. B. Angelou F. Cobosa, Angie M. Ceniza, and Kris A. Capao

- **Industrial Automation and Control Technology**

Forward and Inverse Kinematics Applied to the Parallel Robot's Structure.....357
Olaru D. Adrian, Olaru A. Serban, and Mihai C. Niculae

Predicting Forming Forces and Lack of Volume with Data Mining Methods for a Flange Forging Process.....363
Neelam Frederike Rasche, Jan Langner, Malte Stonis, and Bernd-Arno Behrens

Two Phase Approximation Method Based on Bat Algorithm on Multi-objective Aggregate Production Planning 370
Pongchanun Luangpaiboon