

# International Journal of Modeling and Optimization

## CONTENTS

---

---

### Volume 10, Number 2, April 2020

#### • Computer Simulation and Optimization

- A Scalable Interactive Mixed Reality Escape Room Simulation for Anatomy Learning ..... 41  
*Xi Guo, Dai Rees, and Mark Richards*
- Discrete Simulation on Elective Surgery Wait Line Using Arena Simulation Software ..... 47  
*Xing Yee Leong, Nethal K. Jajo, and Shelton Peiris*
- An Analysis of the Implementation of Kafka in High-Frequency Electronic Trading Environments ..... 52  
*Vlad Bucur, Ovidiu Stan, Liviu Miclea*
- Mathematical Model of Tumor Cell Growth Based on Age Structure ..... 57  
*Atmini Dhoruri, Eminugroho Ratna Sari, and Dwi Lestari*

#### • Mechanical Control and System Simulation

- Assisted Multi Objectives Research Optimization of the Arm Type Robot's Forces ..... 61  
*Adrian D. Olaru, Serban A. Olaru, Niculae C. Mihai, and Natalia M. Smidova*
- Simulation of Three-Sided Lid-Driven Cavity ..... 68  
*Abanoub G. Kamel, Eman H. Haraz, and Sarwat N. Hanna*
- Implementing Discrete Control for the Horizontal Positioning of an Industrial Manipulator Using MATLAB .. 75  
*Iulia Clitan, Vlad Muresan, Mihail Abrudean, and Andrei Florin Clitan*