

# INTERNATIONAL JOURNAL OF SYSTEMS SIMULATION

VOLUME 12

NUMBER 1

JANUARY-JUNE 2018

## Contents

1. Evaluation of Rheumatoid Arthritis using Thermography and Colour Doppler ..... 1-10  
*A.B. Suma, U. Snehalatha and T. Rajalakshmi*
2. Path Planning Algorithm for a Mobile Robot – A Comparative Study in ..... 11-17  
Different Environment  
*Debadatta Satapathy and G. Joselin Retna Kumar*
3. Performance Characteristic Analysis of ABB IRB 1410 Robot using Nano Paint ..... 19-28  
*Thushar T and S. Prabhu*
4. Personal and Professional Attitudes of Generation Z Students ..... 29-36  
*Ramar Veluchamy, M.V. Bharadwaj, Vignesh S and Gopalika Sharma*
5. Personalized Search Engine Using Web Logs for Educational Institutions ..... 37-45  
*Kushagra Mangal, Sagar Kumar Gupta and M. Uma*
6. Path Planning of a Mobile Robot using Amended A-Star Algorithm ..... 47-60  
*Priyanka Sudhakara and Velappa Ganapathy*
7. Paper Sobel Operated Edge Detection Scheme using Image Processing for ..... 61-67  
Detection of Metal Cracks  
*Saroj kumar Sagar and X. Joan of Arc*
8. A Comparative Analysis and Design of Fuzzy Logic Based Fractional PID  
Controller with Variable Order ..... 69-75  
*Prasant Kumar Maharana and Sharanya. S*
9. A Model of Frequency Selective Surface for Radio Wave Propagation ..... 77-85  
*Polineni Kala Mounika and M. Susila*
10. Real Time Control for Charging Optimization in Hybrid Electric Vehicles ..... 87-94  
*Vijayalakshmi. G and Ramesh. K*