

ISSN Print: 2074-904X, ISSN Online: 2074-9058  
Volume 9, Number 3, March 2017

International Journal of

# Intelligent Systems and Applications

**Vol.9**

No.3 Mar. 2017

**IJISA** **Vol.9**

[Http:// www.mecs-press.org](http://www.mecs-press.org)

Vol.9 No.3 March 2017



## Contents

---

### REGULAR PAPERS

---

Cognitive Agents and Learning Problems <i>Goran Zaharija, Saša Mladenović, Stefan Dunić</i>	1
Integrating Face and the Both Irises for Personal Authentication <i>Leila Zoubida, Réda Adjoudj</i>	8
Mathematical Modeling of the Process of Vibration Protection in a System with two-mass Damper Pendulum <i>Zhengbing Hu, V.P.Legeza, I.A.Dychka, D.V.Legeza</i>	18
Using Machine Learning Techniques to Support Group Formation in an Online Collaborative Learning Environment <i>Elizaphan M. Maina, Robert O. Oboko, Peter W. Waiganjo</i>	26
Clustering of Faculty by Evaluating their Appraisal Performance by using Feed Forward Neural Network Approach <i>C.Bhanuprakash, Y.S. Nijagunarya, M.A. Jayaram</i>	34
Simulation and Analysis of Umbilical Blood Flow using Markov-based Mathematical Model <i>Abdullah Bin Queyam, Sharvan Kumar Pahuja, Dilbag Singh</i>	41
Assessing Query Translation Quality Using Back Translation in Hindi-English CLIR <i>Ganesh Chandra, Sanjay K. Dwivedi</i>	51
Research of Self-Tuning PID for PMSM Vector Control based on Improved KMTOA <i>Lingzhi Yi, Chengdong Zhang, Genping Wang</i>	60

---