

## Table of Contents

<i>A Novel Approach for Performance Improvement of Multi-Agent based System Architecture</i>	1
Hyunsang Youn, Suhyeon Jang, Eunseok Lee	
<i>Broadcasting Scheme for Location Management in Mobile Networks</i>	11
Jae-Woo Lee	
<i>Design and Validation of a Low-Power Network Node for Pervasive Applications</i>	21
Juan-Carlos Cano, Carlos T. Calafate, Pietro Manzoni, José-Manuel Cano, Eva González	
<i>Semantic Tolerance Relation-based Image Representation and Classification</i>	33
Ying Dai	
<i>Implementation of Combinational and Sequential Functions in Embedded Firmware</i>	43
Vaclav Dvorak	
<i>To Reveal the Performance Secrets of the Newest NN Searching Algorithm</i>	55
Yaokai Feng, Kunihiro Kaneko, Akifumi Makinouchi	
<i>New Algorithm for Effective Utilization of Bandwidth for Sensitive Applications</i>	73
G.Varaprasad, R.S.D. Wahidabanu, P.Venkataram	
<i>Real-time Embedded Architecture for improving Pervasive Robot Services</i>	79
Carlos Domínguez, Houcine Hassan, Alfons Crespo	
<i>A Study of Software Architecture and Comparative Performance Analysis for an EJB-Based Flexible Enterprise Application Framework</i>	91
Yonghwan Lee, Dugki Min, Junaid Ahsenali Chaudhry, Seungkyu Park	
<i>Healthcare Expert System based on Group Cooperation Model</i>	105
Romeo Mark A. Mateo, Jaewan Lee, Bobby D. Gerardo	
<i>A Study on Security Level Features and Level Requirements in Security Level Management Model</i>	117
Tai-Hoon Kim, Kouichi Sakurai	