

## **TABLE OF CONTENTS**

**Volume 2 Number 2**

**February 2010**

### **Evaluation of Multiusers' Interference on Radiolocation in CDMA Cellular Networks**

- A. J. Bamisaye, M. O. Kolawole, V. S. A. Adeloye.....93

### **Energy Harvesting Strategy Using Piezoelectric Element Driven by Vibration Method**

- D.-G. Kim, S.-N. Yun, Y.-B. Ham, J.-H. Park.....100

### **Linear Pulse-Coupled Oscillators Model—A New Approach for Time Synchronization in Wireless Sensor Networks**

- Z. L. An, H. S. Zhu, M. L. Zhang, C. N. Xu, Y. J. Xu, X. W. Li.....108

### **K-Nearest Neighbor Based Missing Data Estimation Algorithm in Wireless Sensor Networks**

- L. Q. Pan, J. Z. Li.....115

### **Recharging Sensor Nodes Using Implicit Actor Coordination in Wireless Sensor Actor Networks**

- M. Sharifi, S. Sedighian, M. Kamali.....123

### **Finding the Optimal Percentage of Cluster Heads from a New and Complete Mathematical Model on LEACH**

- A. B. M. Alim Al Islam, C. S. Hyder, H. Kabir, M. Naznin.....129

### **Coordination for Networks of Dynamic Agents with Time-Varying Delays**

- H. W. Yu, B. S. Zhang, Y. F. Zheng.....141

### **A Novel Approach for Finding a Shortest Path in a Mixed Fuzzy Network**

- A. Tajdin, I. Mahdavi, N. Mahdavi-Amiri, B. Sadeghpour-Gildeh, R. Hassanzadeh.....148

### **Tree Based Energy and Congestion Aware Routing Protocol for Wireless Sensor Networks**

- A. H. Mohajerzadeh, M. H. Yaghmaee.....161

### **An Energy-Efficient Access Control Algorithm with Cross-Layer Optimization in Wireless Sensor Networks**

- Z. Chen, S. Q. Li.....168

### **A Study on Vehicle Detection and Tracking Using Wireless Sensor Networks**

- G. Padmavathi, D. Shanmugapriya, M. Kalaivani.....173

### **Achieving Directionality and Transmit Diversity via Integrating Beam Pattern Scanning (BPS) Antenna Arrays and OFDM**

- P. K. Teh, S. A. Zekavat.....186