

Table of Contents

Volume 4 Number 5

May 2016

Neural Network Modeling and Prediction of Surface Roughness in Machining Aluminum Alloys N. Fang, P. Srinivasa Pai, N. Edwards.....	1
Temperature Dependence of Electrical Properties of Organic Thin Film Transistors Based on pn Heterojunction and Their Applications in Temperature Sensors R. B. Ye, K. Ohta, M. Baba.....	10
Design of the Quantization Matrix in the Distributed Compressed Sensing Video Coding Y. Y. Dai, X. H. Rui, X. Y. Zhao.....	16
Recommendations for Big Data in Online Video Quality of Experience Assessment E. Court, K. Radhakrishnan, K. Ademoye, S. Hole.....	24
Analysis of Video Quality Variation with Different Bit Rates of H.264 Compression Y.-J. Chen, Y.-J. Lin, S.-L. Hsieh.....	32
A Comparative Assessment of Floating and Submerged Sensor Network Deployments for Monitoring Underwater Sediment Transport Processes A. J. Watt, C. E.-A. Campbell, S. Hole, I. Wells, M. R. Phillips.....	41
Automated Performance Tuning of Data Management Systems with Materializations and Indices N. N. Noon, J. R. Getta.....	47
Exploring the Big Data Using a Rigorous and Quantitative Causality Analysis X. S. Liang.....	54
Analysis of Interface and Screen for Ground Control System E. Lee, S. Kim, Y. J. Kwon.....	61
Design of Ground Control Station for Operation of Multiple Combat Entities J. Heo, S. Kim, Y. J. Kwon.....	67
Information Visualization Theorem for Battlefield Screen H. Jung, S. Kim, Y. J. Kwon.....	73

Improve Data Quality by Processing Null Values and Semantic Dependencies

H. Zaidi, F. Boufarès, Y. Pollet.....79

User Centered Design for Battlefield Screen

H. Jung, S. Kim, Y. J. Kwon.....87

Analysis of Design Approach for Navy Weapon System Operation Environment

S. Baek, S. Kim, E. Lee, Y. J. Kwon.....93

Sensors Applied in Healthcare Environments

W. V. Shi.....99

Recent Advances in Machine-to-Machine Communications

N. Xia, C.-S. Yang.....107