

# Table of Contents

Volume 4    Number 1

March 2014

<b>Effect of the Spin-Orbit Interaction (Heisenberg XYZ Model) on Partial Entangled Quantum Network</b> A.-H. Abdel-Aty, N. Zakaria, L. Y. Cheong, N. Metwally.....	1
<b>Virtual Numbers to Represent Entangled Quantum States</b> L. A. Patel.....	18
<b>Toward Quantum-Inspired Model of Mind</b> M. Zak.....	22
<b>Entanglement Quantifier Based on Atomic Wehrl Entropy for Non-Linear Interaction between a Single Two-Level Atom and SU(1,1) Quantum System</b> S. Abdel-Khalek, M. Al-Quthami, M. M. A. Ahmed.....	44
<b>Super Quantum Discord and Inferior “Geometric Discord” Based on Weak Measurement in Noninertial Frames</b> M. H. Xiang, J. L. Jing.....	54
<b>Approximate Quantum State Sharings via Pair of Private Quantum Channels</b> D. P. Chi, K. Jeong.....	64
<b>Some Features on Entropy Squeezing for Two-Level System with a New Nonlinear Coherent State</b> S. I. Ali, S. Abdel-Khalek.....	71