

Lecture Notes on Software Engineering

CONTENTS

Volume 3, Number 2, May 2015

• Software Design and Development

- Trigger Based Assertion Tool in Software Development.....73
Sei Tanaka and Hiromi Kobayashi
- Cross-Platform Mobile Geolocation Applications Based on PhoneGap.....78
Niyigena Jean Pierre, Fan Xiumei, Gakwaya Daniel, and Gombaniro Jean Claude
- Requirements Definitions of Real-Time System Using the Behavioral Patterns Analysis (BPA) Approach: The Air Traffic Control System.....83
Assem El-Ansary
- Adaptive Web-Based System for Examination with Cheating Prevention Mechanism.....90
Ondrej Kainz, Dávid Cymbalák, and František Jakab

• Enterprise Application Architectures and Services

- Configuration as a Service in Multi-Tenant Enterprise Resource Planning System.....95
Mona Misfer Al-Shardan and Djamal Ziani
- Migration of Enterprise Software Applications to Multiple Clouds: A Feature Based Approach.....101
Aparna Vijaya, Pritam Dash, and Neelanarayanan V.
- PEST Framework for Analysing Cloud Computing Adoption by Mauritian SMEs.....107
Mira Antoo, Zarine Cadarsaib, and Baby Gobin
- Cloud Computing as an Alternative for on-Premise Software for Mauritian Hotels.....113
Suman Ramkhelawan, Zarine Cadarsaib, and Baby Gobin
- Implementing ERP Systems in Government: Case Study of Saudi Organization.....120
Abdulelah Almishal and Majed Almashari Alsaud
- Integrating the Quality Requirements into the Riva-Based Business Process Architectures Using the Synthesis of the i^* and the NFR Frameworks.....125
Yousra Odeh

• Software Quality

- A Cross-Platform Usability Measurement Model.....132
Khalid Majrashi and Margaret Hamilton
- Quality Measurement in the Software Development Life-Cycle by Statistical Metrics – A Survey.....145
Galia Novakova Nedeltcheva
- Automated Software Test Data Generation Using Improved Search Procedure.....152
Shubham Agarwal and Abhimanyu Bhattar
- An Efficient Compression Algorithm for Uncertain Databases Aimed at Mining Problems.....157

Mahmoud M. Gabr, Saad M. Darwish, and Sayed A. Mohsin