SESSION: SOFTWARE SYSTEMS AND TECHNIQUES FOR SPACE SITUATIONAL AWARENESS AND VISUALIZATION

Space Situation Awareness Human Effectiveness Research Trends
Denise Aleva, John Ianni, Vincent Schmidt

A Survey of 3D Display Technologies for Multispectral Visualization of Spacecraft
George Reis

Learning Automata Swarm for Adaptive Space Situational Awareness
Duong Nguyen

SESSION: SOFTWARE METRICS AND SOFTWARE PROCESS

Role Explosion: Acknowledging the Problem
Aaron Elliott, Scott Knight

Research of Software Process Metrics Based on CMMI
Quansheng Wu, Min Ma

Software Process Improvement (iSPA) Model Evaluation based on Critical Success Factors of Successful Software Projects
Raja Zurina Raja Mohamed Ali, Suhaimi Ibrahim

Identifying Architectural Changes Using Software Metrics
Young Lee, Jeong Yang

Achieving Capability Maturity Model Integration (CMMI) Maturity Level 2 by Implementing FEAF Reference Model
Ramin Nassiri, Fatemeh Kafili Kasmaee, Gholamreza Latf Shabgahi

SESSION: REAL TIME AND SAFETY CRITICAL SYSTEMS

Real-Time Workflow Modeling and Analysis in Emergency Response
Jiacun Wang, Bill Tepfenhart

Performance Evaluation of Personnel Assignments in Software Engineering
Luis Daniel Otero, Carlos Otero, William Arrasmith

Design Methods For Safety Critical Computer Systems
V S Subramanyeswara Rao Kadiyam, Seetha Ramaiah Panchumarthy, Amarnath J

Development of a Mobile Ganged Phase Array Radar - Risk Mitigation System for UAS Operations in North Dakota
Ronald Marsh, Micah Kary, Kirk Ogaard, John Nordlie
SESSION: SOFTWARE PROJECT MANAGEMENT + EDUCATION AND COMPUTER LAW

Applying MCDC to Large DNF Logic Expressions
Garrett Kaminski, Paul Ammann

Evaluation of Interaction with Commercial Educational Games when Used by Children with Autism
Jessica Prytz, Linn Gustavsson Christiernin

Managing License Incompatibilities Distributing Eclipse Application Stacks
Samrat Dhillon, Dwight Deugo

Software Development Effort Estimation Applying a Fuzzy Logic Model Involving Programming Language Experience
Cuauhtemoc Lopez-Martín, Arturo Chavoya-Peña, Maria Elena Meda-Campaña

Capturing Software Project Management Knowledge with PROMOL: Project Management Modeling Language
Kadir Alpaslan Demir

On-campus Collaborative Project Experience for Software Engineering Course
Xiaohong Sophie Wang, Don Spickler, Barbara Wainwright

A Simple Framework for Project Communications
Kadir Alpaslan Demir

SESSION: SOFTWARE SECURITY AND REUSABILITY ENGINEERING

Multi-Agent System Supporting Security Requirements Engineering
Esmiralda Moradian, Anne Hakansson, Jan Olof Andersson

Towards an Intelligent User Centered Search Engine for COTS Components
Nacim Yanes, Sihem Ben Sassi, Henda Hajjami Benghezala

Designing Transaction Management System in Component Based Network Model for Secured Component Transmission
Puneet Goswami, Pradeep Kumar

SOA and Security of Loosely Coupled Services in the Cloud using SOA 3.0
Atif Farid Mohammad, Assion Lawson-Body, Emanuel S. Grant
Reusability and Adaptability Using Aspect-Oriented Framework
Paniti Netinant

Towards Automatic Integration of Or-BAC Security Policies Using Aspects
Ylies Falcone, Mohamad Jaber

Relating Software Coupling Attribute and Security Vulnerability Attribute
Varadachari Ayanam, Frank Tsui, Sheryl Duggins, Andy Wang

SESSION: FORMAL VERIFICATION AND VALIDATION METHODS
Model Checking of Software Design in State Transition Matrix
Tomohiro Shiraishi, Weiqiang Kong, Yuki Mizushima, Noriyuki Katakura, Michihiro Matsumoto, Masahiko Watanabe, Tetsuro Katayama, Akira Fukuda

Towards Validation of E-Services Composition: Transforming eFlow to Petri-Nets
Hossein Nematzadeh, Radziah Mohamad

Semi-Automated Verification and Removal of Open Redirect Vulnerabilities in Web Applications
Lwin Khin Shar, Hee Beng Kuan Tan

An Analysis of the Significance of MDD for Industry
Pedro Fernández, Antonio Navarro

Model Checking LOOP Programs
Zining Cao

SESSION: SOFTWARE PROJECTS AND PRODUCTS MEASUREMENT
Psychological-based Measurement of Personnel Performance
Konstantina Georgieva, Robert Neumann, Reiner Dumke

Accuracy of Measurements with IFPUG: The Measurer Impact
Juan Jose Cuadrado-Gallego, Pablo Rodriguez-Soria, Dacil Castelo, Alfonso Gonzalez

A Standards-Based Model for the Specification of Portability Requirements
Khalid Al-Sarayreh, Alain Abran, Juan J. Cuadrado-Gallego

A Comparison of Project Management Software Tools (PMST)
Halil Cicibas, Omer Unal, Kadir Alpaslan Demir

Methodologies Supporting the Management of Business Software Systems Development and Enhancement Projects Functional Scope
Beata Czarnacka-Chrobot
SESSION: SOFTWARE METRICS, UML, SOA, EMBEDDED SOFTWARE, CRITICAL SYSTEMS, SOFTWARE PRODUCT LINES, SOFTWARE ARCHITECTURES, QUALITY MANAGEMENT, AND ROA

SET4SCRUM: Security Enhanced Metric Taxonomy for SCRUM
Chris Simmons, Linda Sherrell

Venkata Vampugani Subrahmanyam, M. Najam Doja

Preserving Consistency and Properties in Pairwise Comparisons Based Non-Numerical Ranking
Yun Zhai, Ryszard Janicki

Designing an SOA-Based Earthquake Forewarning System using BPMN
Tamirat Abegaz, Xiaohong Yuan

Improvement of Quality Evaluation of Embedded Software Development
Ching-Pao Chang, Ko-Li Cheng

Assisting Specification and Consistency-Check of Temporal Requirements for Critical Systems
Mohamed Ghazel, Ahmed Mekki

Streamlined Feature Dependency Representation in Software Product Lines
Huilin Ye, Yuqing Lin, Wendy Zhang

Toward Model Based Testing: Combining AADLS with High Level Petri Nets
Hassan Reza, Feifei Gu, Bahram Shafai

Role of DEMAIC Methodology in Success of Six Sigma Projects of IT Industry
Abid Farooq Gorsi, Aakif Nazeer Khan, Muhammad Usman Mirza, Saleem Zubair

The Additive Problem in Software Measurement
Kehinde Jolayemi, Austin Melton

A Study and Categorization of Pervasive Systems Architectures Towards Specifying a Software Product Line
Mostafa Hamza, Sherif Aly
A Kind of Geographic Query System Based on RIA and REST Architecture
Dongmei Huang, Zedong Hou, Shengqi He, Minghua Zhang

Semantic Matching of Software Project Documents Using Ontology
Manojkumar Deshpande, Sunil Bhirud