

IADIS International Conference Applied Computing 2013

Fort Worth, Texas, USA

CONFERENCE PROGRAM

Tuesday 22nd, October 2013

18:30 Welcome Reception (at Hotel Restaurant - Sheraton Bistro)

Wednesday 23rd, October 2013

08:30-17:30 Welcome Desk

09:15-09:30 Session O – Opening Session
(Room Grape Creek)

OPENING SESSION
Profs Pedro Isaías and Hans Weghorn

09:30-10:30 Session KL1 – Keynote Presentation
(Room Grape Creek)

SENTIC COMPUTING
Dr. Erik Cambria, Research Scientist at the National University of Singapore and Associate Researcher at the MIT - Massachusetts Institute of Technology

10:30-11:00 Coffee Break (at Lightcatcher Foyer Room)

11:00-12:30 Session FP 23.1
Applied Information Systems // Information Retrieval
(Room Grape Creek)
Chair: Jeffrey Greene

IMPROVING THE BURROWS METHOD OF SOURCE CODE AUTHORSHIP ATTRIBUTION (F069)
Matthew F. Tennyson and Francisco J. Mitropoulos (presented by Steven Dolins)
HIDDEN MARKOV MODELS: APPLICATIONS IN FLEET MANAGEMENT (F092)
Richard L. Churchill, K.M. George and Nohpill Park
CONTEXT-AWARE RECOMMENDATION BASED ON MULTI-CRITERIA COMMUNITIES (F094)
Thuy Ngoc Nguyen and An Te Nguyen

12:30-13:30 Lunch Break (at Brushy Creek & Dry Coma Room)

13:30-15:30 Session FP 23.2
Algorithms // Parallel and Distributed Systems
(Room Grape Creek)
Chair: Hideaki Goto

ONLINE BICRITERIA LOAD BALANCING WITH REPLICATION IN AMORTIZED LOGARITHMIC TIME (F057)
Savio S. H. Tse
SEQUENTIAL & PARALLEL HYBRID APPROACH FOR NON-RECURSIVE MOST SIGNIFICANT DIGIT RADIX SORT (F070)
Ahmet Arif Aydin and Gita Alaghband
AN ENERGY-EFFICIENT HEURISTIC FOR HARD REAL-TIME SYSTEM ON MULTI-CORE PROCESSORS (F067)
Da He and Wolfgang Mueller
SERIAL VS. PARALLEL ELLIPTIC CURVE CRYPTO PROCESSOR DESIGNS (F033)
Adnan Abdul-Aziz Gutub, Abdul-Aziz Tabakh, Ayed Al-Qahtani and Alaaeldin Amin

15:30-16:00 Coffee Break (at Lightcatcher Foyer Room)

16:00-17:30 Session FRP 23.3
Ubiquitous Computing // Usability Issues // Other
(Room Grape Creek)
Chair: Yas Alsultanny

GENERATING CUSTOMIZED, INTELLIGENT, AND DYNAMIC NARRATIVES (F077)
Jon A Preston, Jeff Chastine and Jeff Greene
MARKUP LANGUAGE FOR COGNITIVE AND CONTEXT-AWARE ADAPTABLE USER INTERFACES (F102)
Sohail Rafiqi, Suku Nair and Ephrem Fernandez
A SEMANTIC APPROACH TO MANAGING AGILE REQUIREMENTS IN THE CLINICAL WORKSPACE (R080)
Pavani Akundi
LOGEEN ELOGISTIC & GREEN (P046)
Emanuela Donetti, Gabriele Grea, Moreno Carosella, Domenico Furno, Micaela Terzi and Elena Roda

19:00 Conference Dinner (at Brushy Creek & Dry Coma Room)

Thursday 24th, October 2013

08:30-18:00 Welcome Desk

09:00-10:30 Tutorial
(Room Spicewood)

SENTIC COMPUTING

Dr. Erik Cambria, Research Scientist at the National University of Singapore and Associate Researcher at the MIT - Massachusetts Institute of Technology

10:30-11:00 Coffee Break (at Lightcatcher Foyer Room)

11:00-12:30 Tutorial
(Room Spicewood)

Dr. Erik Cambria, Research Scientist at the National University of Singapore and Associate Researcher at the MIT - Massachusetts Institute of Technology

12:30-13:30 Lunch Break (at Brushy Creek & Dry Coma Room)

13:30-15:15 Session FRP 24.1

Security // Database Systems

(Room Grape Creek)

Chair: Alla Kravets

SOFTWARE WATERMARKING BASED ON REGISTER ALLOCATION WITH ROTATION (F096)

Takumi Sekino, Yuki Hirai and Keiichi Kaneko

A DESIGN PATTERN OF INCORPORATING ATTRIBUTES INTO ROLE-BASED ACCESS CONTROL (F076)

Ying Jin, Jose Reyes and Zhimin Cheng

A GENERAL METHOD FOR ANALYZING

THE NATIONWIDE INPATIENT SAMPLE DATA SET (F020)

Hua-Ching Su, Sneha Dhanya and Steven Dolins

PRIVACY OF SMARTPHONE APPLICATIONS (R023)

Ala' Eshmawi and Suku Nair

15:30-16:00 Coffee Break (at Lightcatcher Foyer Room)

16:00-17:50 Session FSP 24.2

Data Mining

(Room Grape Creek)

Chair: Steven Dolins

PARTITIONING OF INTERVAL-TYPE DATA SETS USING KERNEL FUZZY C-MEANS CLUSTERING ALGORITHM (F027)

Anderson F. B. F. da Costa, Cesar Rocha Vasconcelos, Bruno A. Pimentel, Renata M. C. R. de Souza and Reinaldo Gomes

INTENSITY PREDICTION MODEL FOR TROPICAL CYCLONE RAPID INTENSIFICATION EVENTS (S024)

Hadil Shaiba and Michael Hahsler

MALWARE CLASSIFICATION: AN INCREMENTAL SOURCE CODE-BASED APPROACH (S103)

Yen-Hsien Lee, Ke-Qin Qiu and Tsai-Hsin Chu

MULTI-AGENT SYSTEMS COMPONENT-BASED GENERATOR: DEVELOPMENT APPROACH (S095)

Alla G. Kravets, Andrey D. Kravets, Sergey A. Fomenkov and Valeriy A. Kamaev

FAULT TOLERANCE EFFECT ON COMPUTER NETWORKS AVAILABILITY (S036)

Yas A. Alsultanny

Friday 25th October 2013

08:30-13:00 Welcome Desk

09:10-10:30 Session FSP 25.1

Parallel and Distributed Systems // Mobile Networks and Systems // Networking

(Room Spicewood)

Chair: Alla Kravets

PARALLEL MULTI-GRID LIKE SOLVER FOR THE PRESSURE POISSON EQUATION IN FLUID FLOW APPLICATIONS (F058)

Jérôme Frisch, Ralf-Peter Mundani and Ernst Rank

AN OPTIMAL DISTRIBUTION OF VIDEO TRANSCODING TASKS IN HOME NETWORKS (F089)

Edwin A. Heredia

DISRUPTION-TOLERANT, LARGE-SCALE WIRELESS LAN ROAMING ARCHITECTURE FOR EDUROAM (S083)

Hideaki Goto, Hao Liu, Shunichi Kinoshita, Motonori Nakamura and Hideaki Sone

10:30-11:00 Coffee Break (at Piney Wood Cove Room)

11:00-12:15 Session FRP 25.2

Software Engineering

(Room Spicewood)

Chair: Keiichi Kaneko

LEARNING OF WEB APPLICATION FRAMEWORKS COMPONENTS (F068)

Daniel Correa Botero, Carlos Mario Zapata Jaramillo and Fernando Arango Isaza

LEAN SOFTWARE DEVELOPMENT: A CASE STUDY IN A MEDIUM-SIZED COMPANY IN BRAZILIAN STATE OF SANTA CATARINA (F090)

Ivan Bosnic and Mehran Misaghi

SOFTWARE TESTING WITH EMPHASIS ON FINDING SECURITY DEFECTS (R078)

Celso Barros, Ferruccio Rosa and Amândio Balcão

12:15 Best Paper Awards Ceremony and Closing Session

(Room Spicewood)

Profs Pedro Isaías and Hans Weghorn