# The First International **Conference on Future Generation Communication Technologies**

(FGCT 2012)

London, United Kingdom 12 – 14 December 2012



**IEEE Catalog Number: CFP1269U-PRT ISBN:** 

978-1-4673-5859-0



### The First International Conference on Future Generation Communication Technologies (FGCT 2012)



## **December 12-14, 2012**

#### **British Computer Society, London, UK**

Technically co-sponsored by IEEE UK&RI
The proceedings will be archived in the IEEE Xplore.

Future Mobile Communications
Smart Sensing Strategy for SPRT Considering Fast Changing Sample Statistics in Cognitive Radio Systems
Yeon-Jea Cho, Ayoung Heo, Jai-Hoon Lee and Dong-Jo Park
On the Capacity of Multicell Coverage MIMO Systems in High Altitude Platform Channels"************************************
Walid M. Raafat , Shawki. A.Fattah , Hosny A. El-Motaafy
Priority-Based Cooperative Access for Cognitive Wireless Mesh Networks"""34
A. Masrub and H. S. Al-Raweshidy
IMS: Interference Minimization Scheme for Cognitive Radio Networks Using Hungarian Algorithm """39
Saleem Aslam, Adnan Shahid and Kyung-Geun Lee
Joint Spectrum Selection and Radio Resource Management based on Multi-Objective Portfolio Optimization for Cognitive Radio Networks 44
Ramiro Samano-Robles and Atilio Gameiro
Prediction of 3D Video Experience from Video Quality and Depth Perception Considering Ambient Illumination Context*****4:
Ramiro Samano-Robles and Atilio Gameiro
New Structure of using Image Sensor Communication in Smart House with Smart Grid ******54
Xueying WU, Peng LIU, Song LIU

Steffen Moser, Simon Eckert and Frank Slomka **Communication Protocols** The Effect of User and Channel Interferences on QoS Routing in Cognitive Radio Ad-Hoc Network \*\*\*\*\*64 Halabi Hasbullah, Tauqeer Safdar Malik New efficient mechanisms to secure OLSR protocol """68 Khadidja Ayad, Thouraya Bouabana-Tebibel Social technology tools and applications Social Stream, a social network framework 74 Antonio Tapiador, Diego Carrera, Joaqu'ın Salvach'ua Not Every Friend on a Social Network Can be Trusted: Classifying Imposters Using Decision Trees """7: Simon Fong, Yan Zhuang, Jiaying He An Empirical Study of How Users Adopt Famous Entities"\*\*\*\*\*86 Sheng Yu and Subhash Kak Quantitative Analysis of Trust Factors on Social Network using Data Mining Approach"""92 Simon Fong, Yan Zhuang, Maya Yu, Iris Ma Social Thermodynamics An approach to re-engineer communication dynamics in social networks """98 Dinesh Pothineni, Pratik Mishra, Aadil Rasheed Analysis of General Opinions about Sina Weibo Micro-blog Real-name Verification System 55 Simon Fong, Yan Zhuang, Luke Lu, Rui Tang Beidou Communication (BeiComm) Device for Rescue in Disaster ;; Muhammed Kamrul Islam, LIU Rongke Customized Mashups for Improved Reputation Visualization", 6

Nicolas Spycher, Edy Portmann

An Approach for the Integration of Smart Antennas in the Design and Simulation of Vehicular Ad-Hoc Networks"\*\*\*\*\*58

#### **Collaborative Communication Technology**

Comparison between MUSIC and ESPRIT Direction of Arrival Estimation Algorithms for Wireless Communication Systems";; Ousmane Abdoulaye Oumar, Ming Fei Siyau, Tariq P. Sattar Building a Diseases Symptoms Ontology for Medical Diagnosis: An Integrative Approach""326 Osama Mohammed, Rachid Benlamri and Simon Fong IwaCam: a Multimedia Processing Platform for Supporting Video-Based Cooking Communication"""32; Hidenori Tsuji, Yoko Yamakata, Takuya Funatomi, Hiromi Hiramatsu and Shinsuke Mori Adaptive Relay Selection and Power Allocation for Hybrid Relay Systems"\*\*\*\*\*339 Ayoung Heo, Yeon-Jea Cho, Seung-Ri jin, and Dong-Jo Park **Communication Trust** <u>User-tracable watermarking scheme for dynamic web-page content</u>""343 Erik Sonnleitner; Enhancing Privacy in Collaborative Scenarios Utilising a Flexible Proxy Layer """348 Fischer, Larsand Heupel, Marceland Bourimi, Mohamed A Model of IP Traceability Dynamic Collaboration Technology in the Denial of Service Attack """355 Li Qingshan Security Analysis of 3GPP (LTE) - WLAN Interworking and A New Local Authentication Method based on EAP-AKA"\*\*\*\*359 Younes El Hajjaji El Idrissi, Noureddine Zahid, Mohamed Jedra **Communication Interface and Modeling** The Optimization and Intelligence Approach for Traffic Engineered Design of a Service Network"\*\*\*\*365 Phayung Meesad , Pongsarun Boonyopakorn Bat Algorithm for Topology Optimization in Microelectronic Applications"\*\*\*\*\*372 Xin-She Yang, Mehmet Karamanoglu, Simon Fong A Framework of Virtual Classroom Model on the Internet """378 Dussadee Seewungkum, Hathairat Ketmaneechairat, Mirko Caspar Detection of social interaction from observation of daily living environments"\*\*\*\*\*384

Yuki Kizumi Koh Kakusho, Takeshi Okadome, Takuya Funatomi Masaaki Iiyama

Vasilios Pasias, D.A.Karras, R.C.Papademetriou Modeling Efficient Dynamic Channel Assignment Schemes for Quality of Service Wireless Multimedia Telecommunications through an extended and integrated """396 Java Simulation Framework P.M.Papazoglou, D.A.Karras, R.C.Papademetriou Forthcoming optical communication and Intelligent systemss Evaluation of SPM-Induced Optical Signal Distortions in Ultra-Dense Mixed-WDM System"\*\*\*\*3: 2 Aleksejs Udalcovs, Vjaceslavs Bobrovs, and Jurgis Porins Hamming-weight Minimisation Coding for CDMA Optical Access Networks with Enhanced Security 3: 7 A. Ortega, V. A. Bettachini, J. I. Alvarez-Hamelin y , D. F. Grosz Imputing Landsat7 ETM+ with SLC-off Image Using the Similarity Measurement between Two Clusters """"3; 2 Sathit Prasomphan In-tunnel Train Mobile Communications using an Heterogeneous WLAN-WiMAX Wireless Network """"3; 8 Michael Charitos, Christos Koulamas, Grigorios Kalivas Mobile Web Technologies A generic location-based mobile application framework supporting privacy-preserving end-user tailorability." 424 Dhiah el Diehn I. Abou-Tai, Mohamed Bourimiy, Ricardo Tesorieroz, Dogan Kesdogany, Marcel Heupel <u>A Framework for a More Secure and Streamlined Experience for the Semantic and Mobile Web</u>"""42: Anurag Nagar A Study of a Less Sensitive Positioning Method to Forms of AP Placements"\*\*\*435 Joonseong Gim, Jongkyun Hong, Sangsun Lee

New Optimization models for Survivability-supported Traffic Engineering in Multi-service Networks"""38: