

The First International Conference on Future Communication Networks

(9 - 12) April, 2012
Baghdad - Iraq



April 2012
ICFCN
Baghdad

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Conference Day #1:

April 10th, 2012

Place:

Ishtar-Baghdad Hotel (Tamooz Hall)

Time

08:00 - 14:00

Conference Registration

09:00 - 09:30

Opening Ceremony

09:30 - 10:00

Opening Lecture (Keynote Speech) / Reflect Arrays: Potentials & Future Challenges, Chair: Prof. Khalil Sayidmarie

10:00 - 11:20:

Panel Discussion#1 / Impact of Research on Iraq, Chair: Prof. Hamed Al-Raweshidy

11:20 - 11:50

Coffee Break

11:50 - 13:10

Panel Discussion #2 / E-Government, Chair: Dr. Samir Raouf

13:10 - 14:10

Lunch

Conference Day #2:

April 11th, 2012

Place:

Al-Nahrain University, Jadriya Campus

Location/Time

Al-Salam Hall / 09:00 - 10:20

Panel Discussion#3 / Communication Networks in Iraq ... Vision, Chair: Prof. Hamed Al-Raweshidy

University Gardens / 10:20 - 10:50

Coffee Break

Al-Salam Hall / 10:50 - 12:30

Paper Session # W1 / Wireless Sensor Networks & Networks Optimization I, Chair: Prof. Jafer Wadi Abdulsada

Al-Rafidain Hall / 10:50 - 12:30

Paper Session # W2 / Mobile & Wireless Networks I, Chair: Dr. Kaydar Majeed Quboa

University Gardens / 12:30 - 13:30

Lunch

Al-Salam Hall / 13:30 - 14:50

Paper Session # W3 / Smart Antennas & Multi Carrier Modulation , Chair: Prof. Khalil Sayidmarie

Al-Rafidain Hall / 13:30 - 14:50

Paper Session # W4 / Wireless Sensor Networks & Networks Optimization II, Chair: Prof. Fawzi Al-Naima

Conference Day #3:

April 12th, 2012

Place:

Al-Nahrain University, Jadriya Campus

Location/Time

Al-Salam Hall / 09:00 - 10:20

Panel Discussion#4 / Communication Security, Chair: Dr. Sattar Badr Al-Maliki

University Gardens / 10:20 - 10:50

Coffee Break

Al-Salam Hall / 10:50 - 12:20

Paper Session # T1 / Mobile & Wireless Networks II, Chair: Prof. Adel Hameed Ahmed

Al-Rafidain Hall / 10:50 - 12:20

Paper Session # T2 / Information & Networks Security , Chair: Prof. Sideeq Yousif Ameen

Al-Salam Hall / 12:20 - 13:10

Paper Session # T3 / Optical Communications, Chair: Prof. Raad Sami Fyath

Al-Salam Hall / 13:10 - 13:20

Closing Ceremony

University Gardens / 13:20 – 14:20 Lunch

Tutorial Program

Tutorial Day:	April 9th, 2012
Place:	Al-Nahrain University, Jadriya Campus
Location, Time	
08:00 - 9:00	Tutorial Registration
Al-Salam Hall, 09:00 - 10:30	Dr. Faris Al-Shimmary, Aero-Flex, U.K., Long Term Evolution, Part-I
Al-Rafidain Hall, 09:00 - 10:30	Dr. Muhammed Imran, Surrey University, U.K., Green Radio, Part-I
Room C107, 09:00 - 10:30	Dr. Qassim Nasser, Al-Sharjah Univ., UAE, Haptic Data Communications: Part-I
10:30 - 11:00	Coffee Break
Al-Salam Hall, 11:00 - 12:30	Dr. Faris Al-Shimmary, Aero-Flex, U.K., Long Term Evolution, Part-II
Al-Rafidain Hall, 11:00 - 12:30	Dr. Muhammed Imran, Surrey University, U.K., Green Radio, Part-II
Room C107, 11:00 - 12:30	Dr. Qassim Nasser, Al-Sharjah Univ., UAE, Haptic Data Communications: Part-II

Papers Session

Wednesday, April 11, 2012

10:50 - 12:30

Session W1: Wireless Sensor Networks & Networks Optimization I

Location: Al-Salam Hall

Chair: Prof. Jafar Wadi Abdul-Sadah (University of Baghdad, Iraq)

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|------|---|
| W1-1 | Energy Efficiency and Cell Coverage Area Analysis for Macrocell Networks
Ayad Atiyah Abdulkafi (UNITEN, Malaysia); Sieh Kiong Tiong (UNITEN, Malaysia); Johnny Koh (UNITEN, Malaysia); David Chieng (MIMOS & Wireless Cluster, Malaysia); Alvin Ting (MIMOS, Malaysia) |
| W1-2 | Design of Wavelet Filters for DWT Systems
Abdulrahman Ikram Siddiq (Kirkuk College of Technology, Iraq); Abdulkareem Abdulrahman Kadhim (Al-Nahrain University, Iraq) |
| W1-3 | A New Wavenet-Based Network Congestion Predictor
Jassim Abdul-Jabbar (University of Mosul, Iraq); Majid Alwan (University of Basrah, Iraq); Abbas A. Jasim (University of Basrah., Iraq) |
| W1-4 | Particle Swarm Optimization Based Robust Controller for Congestion Avoidance in Computer Networks
Salih Qaraawy (University of Technology, Iraq); Hazem Ibrahim Ali (University of Technology, Iraq); Ali Mahmood (University of Technology, Iraq) |
| W1-5 | Design and Simulation of a Data Transmission Network for Industrial Control System Subject to Reliability Improvement
Musaria Mahmood (Tikrit University, Iraq); Fawzi M. Al-Naima (Al-Nahrain University, Iraq); Nikolaos Uzunoglu (National Tech. Univ. of Athens, Greece) |

Session W2: Mobile & Wireless Networks I

Location: Al-Rafidain Hall

Chair: Dr. Kaydar M. Quboa (University of Mosul, Iraq)

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|------|---|
| W2-1 | Detection of Shadow Fading in Wireless Networks
Ali Abdalnaser Alnoman (University of Baghdad, Iraq); Tarik Zeyad Ismaeel (University of Baghdad, Iraq) |
| W2-2 | Turbo and Convolutional Codes Assisted Space Time Block Code-Spatial Modulation
Ahmed Wadday (University of Basrah, Iraq); Saod AbdulAziz Aalseyab (University of Basra, Iraq); Abdulkareem S. Abdallah (University of Basrah, Iraq) |

- W2-3 Mobile WiMAX: System Performance in Terms of Distributed and Adjacent Subcarrier Permutation Modes in ITU-R Vehicular A Channel
Safwan E. Abdul Fatah (University of Mousel, Iraq); Sami Mawjoud (University of Mosul, Iraq)
- W2-4 Performance of Differential GPS Based on a Real-Time Algorithm Using SMS Services of GSM Network
Asaad Al-Hindawi (Suliamani Technical College, Iraq); Majeed Nader (Wayne State University, USA)

13:30 - 14:50

Session W3: Smart Antennas & Multi Carrier Modulation

Location: Al-Salam Hall

Chair: Prof. Khalil Hassan Sayidmarie (University of Mosul, Iraq)

- W3-1 Low Density Spreading for Next Generation Multicarrier Cellular Systems
Mohammed AL-Imari (University of Surrey, United Kingdom); Muhammad Ali Imran (University of Surrey, United Kingdom); Rahim Tafazolli (University of Surrey, United Kingdom)
- W3-2 Effect of Directional Antennas At Both Ends of the Link on Fading Statistics
Bilal Hasan Qureshi (Mohammad Ali Jinnah University, Pakistan)
- W3-3 Scalable Video Transmission Using OFDM Schemes over Wireless Channels
Abdulkareem Abdulrahman Kadhim (Al-Nahrain University, Iraq); Walled K. Abdulwahab (Al-Nahrain University, Iraq)
- W3-4 CPW-Fed UWB Antenna with Dual Band-Notch by Hexagonal Shape Slot
Farhad E. Mahmood (University of Mosul, Iraq); Haider M. AlSabbagh (Basra University, Iraq); Robert Edwards (Loughborough University of Technology, United Kingdom)

Session W4: Wireless Sensor Networks & Networks Optimization II

Location: Al-Rafidain Hall

Chair: Fawzi M. Al-Naima (Al-Nahrain University, Iraq)

- W4-1 A RISC Microcontroller Based Voltage Regulator Module with Fuzzy Logic Controller for Processor Core in Mobile Systems
Monaf Tapou (Brunel University, United Kingdom); Hamed Saffa Al-Raweshidy (University of Brunel, United Kingdom)
- W4-2 Optimal Linear Quadratic Controller Based on Genetic Algorithm for TCP/AQM Router
Mohammed Zeki Al-Faiz (Al-Nahrain University, Iraq); Sana Sabah Sabry (Al-Nahrain University, Iraq)
- W4-3 Remote Monitoring and Controlling of Gas Sensors Using VPN Connection
Mohammed Basheer Al-Somaidai (University of Mosul, Iraq); Omar Mowaffak Ahmad Alsaydia (University of Mosul, Iraq)
- W4-4 An Efficient Approach to Detect Faulty Readings in Long-Thin Wireless Sensor Network Using Fuzzy Logic
Seyyed Jalaeddin Dastgheib (Islamic Azad University, Iran)

Thursday, April 12, 2012

10:50 - 12:20

Session T1: Mobile & Wireless Networks II

Location: Al-Salam Hall

Chair: Prof. Adel Hameed Ahmed (University of Technology, Iraq)

- T1-1 Predictive FBLMS Adaptive Algorithms for Tracking Mobile Channels
Qassim Nasir (University Of Sharjah, UAE); Kasim Rashid (Alghuraire University, UAE)
- T1-2 Performance Assessment of U-TDOA and A-GPS Positioning Methods
Yehia R. Hamdy (University of Mosul, Iraq); Sami Mawjoud (University of Mosul, Iraq)

- T1-3 BPSK Receiver Based on Independent Component Analysis
Wafaa Mohammed R. Shakir (Baghdad University, Iraq); Sattar B. Sadkhan (University of Babylon, Iraq); Hanan Akkar (University of Technology, Iraq)
- T1-4 Impact of Video Transcoding Profiles in Wireless Multicast Streaming
Estabraq Makkiya (Al-Nahrain University, Iraq); Emad Hassan Al-Hemiary (Al-Nahrain University, Iraq)
- T1-5 Wireless Underwater Mobile Robot System Based on ZigBee
Mofeed Turkey Rashid (University of Basrah, Iraq); Abduladhem Abdulkareem Ali (University of Basrah, Iraq); Ramzy Salim Ali (University of Basrah, Iraq); Luigi Fortuna (University of Catania, Italy); Mattia Frasca (University of Catania, Italy); Maria Gabriella Xibilia (Università degli Studi di Messina, Italy)
- T1-6 MANET Routing Protocols Taxonomy
Naghah Houfhdhi Saeed (Brunel University, United Kingdom); Maysam F Abbod (Brunel University, United Kingdom); Hamed Saffa Al-Raweshidy (University of Brunel, United Kingdom)

Session T2: Information & Networks Security

Location: Al-Rafidain Hall

Chair: Prof. Siddeeq Yousif Ameen (University of Technology, Iraq)

- T2-1 Proposed Policy for Iraqi ICT Sector (Part I)
Hayam Alyasiri (Ministry of Communications, Iraq); Nabeel Abdulbaqi (Ministry of Communications, Iraq)
- T2-2 Development of Certificate Authority Services for Web Applications
Sufyan T Faraj Al-Janabi (University of Anbar, Iraq); Amer Obaid (MSc, Iraq)
- T2-3 Characteristic Region Based Image Steganography Using Speeded-Up Robust Features Technique
Naghah Hamid (University of MAP, Malaysia)
- T2-4 Modification of Diffie-Hellman Key Exchange Algorithm for Zero Knowledge Proof
Mahmood Khalel Ibrahim (Al Nahrain University, Iraq)
- T2-5 Investigating Effects of Co-ordinate System on Execution Time of Elliptical Curve Protocol in Wireless Sensor Networks
Pritam Gajkumar Shah (DSI Bangalore, India)
- T2-6 Efficient Method to Find the Multiplicative Inverse in $GF(2^m)$ Using FPGA by Exponentiation to $(2k)$
Kais Ismail (University of Baghdad, Iraq); Firas Al-Juboori (University of Baghdad, Iraq); Mohammed Nasrullah (University of Baghdad, Iraq)

12:20 - 13:10

T3: Optical Communications

Location: Al-Salam Hall

Chair: Prof. Raad Sami Fyath (Al-Nahrain University, Iraq)

- T3-1 Analogue and Digital Signal Transmission Utilizing GPON-CWDM Based RoF Over Long Distance
Mazin Al Noor (Middlesex University, United Kingdom)
- T3-2 New Multicast Switch-Based Multicast Wavelength Allocation Algorithm to Increase Network Capacity
Rafed Sabbar Abbas (Brunel University, United Kingdom)
- T3-3 Coherent One-Way Protocol: Design and Simulation
Ahmed Khaleel (University of Baghdad, Iraq)
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Website Administrator: Dr. Emad Al-Hemary