

Dr. Tariq Falah Alwada'n

CONTACT INFORMATION

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DATE OF BIRTH 13th of April 1982

MARITAL STATUS

Married

CITIZENSHIP

Jordanian

RESEARCH INTERESTS

Cloud Computing, Grid Computing, Communications, Security, Mobile Ad Hoc Networks, Security Management and Wireless Networks, Policy Specification and Enforcement and others.

MOST RECENT COURSES AND LABS DEVELOPED

- **Computer Graphics** This course covers the fundamentals of graphics in two dimensional and three dimensional spaces. The course gradually discusses the graphical issues starting from the imaging principles, geometric transformation, 3D modeling, 3D rendering and end up with the animation.
- **Principles of Data Transmission Through Networks**
This module is intended to give students an overview of the modern communication and network principles and technology.
- **Digital Logic Design**
Introduction to digital systems, numbering system and basic concepts and theorems of Boolean algebra and their application in building computer components.
- **MCSE**
Introduction to Windows Server 2003 and Linux, Managing Hardware Devices, Creating and Managing Users, Implementing and Managing Groups, Managing Access to Files, Managing Disk and Data Storage, Advanced File System Management, Implementing and Managing Printing, Implementing and Using Group Policies, Administering a Server, Monitoring Server Performance, Managing and Implementing Backups and Disaster Recovery, Administering Web Resources, and Security Basics.
- **Technical Writing**
This course is design to help students to how to communicate through technical writing and explore how research is done in IT. Students will attain good presentation skills and are expected to prepare a short presentation on any IT-related topic they choose.
- **PHP**
Understanding the infrastructure of web applications, and gaining skills in devel-

oping web applications using the php programming language, apache web server, mysql database server and SQlyog database design client.

- **Discrete Mathematical Structure**

The methods used by computer scientists to solve problems are based on the material of discrete structures. This course is meant to prepare students with the tools and problem solving skills to help them develop software, tools of analysis, and procedures that they will be using in both their academic and professional lives.

EDUCATION

De Montfort University, Leicester, United Kingdom

Ph.D., Computer Science, August 2012

- Thesis Topic: *Security for Mobile Grid Systems*
- Candidacy: *Research Problems in Mobile Agents for Grid Systems*
- Adviser: Dr.Helge Janicke, Dr.Omar ALDabbas
- Area of Study: Security, Multi-Agent Systems, Policy Specification and Enforcement

University of Essex, Colchester, United Kingdom

M.S.,Computer and Information Networks, October 2007

- Thesis Topic: *Simulation and Evaluation of Peer - to - Peer Protocols*
- Adviser: Prof. Antonio Liotta
- Area of Study: Integrated network and service management

Al Balqa Applied University, Amman, Jordan.

B.S.,Computer Engineering, February 2005.

- *Department of Computer Engineering, Faculty of Engineering*
- Emphasis on Computer and Information Systems (programming, algorithms and digital computers)

RECENT MASTER PROJECTS

- PaaS Cloud Computing, Omar Al Zitawi, Princess Sumaya University of Technology, March, 2015.

BOOKS

- Tariq Alwada'n, Hamza Aldabbas and Helge Janicke. "Mobile Grid System: Policy and Privacy". ISBN-10: 365916660X, ISBN-13: 978-3659166600. Lambert, March 3, 2014.

CONTRIBUTED BOOK CHAPTERS

- Mai Abu Baqar, Hamza Aldabbas, Tariq Alwadan, Mai Alfawair and Helge Janicke. "Review of Security in VANETs and MANETs". a contributed book chapter in "Network Security Technologies: Design and Applications", edited by Abdelmalek Amine, Otmane Ait Mohamed, Boualem Benatallah . pages 1-27. IGI Global. November, 2013

- [1] Nidhal El-Omari, Ahmed Omari, Tariq Alwada'n and Ali Al-Ibrahim. "Document Image Segmentation and Compression Using a Statistical Block Based Technique". *Journal of Computer Science and Information Technology*. To be published in April 2015.
- [2] Tariq Alwada'n, Omar Al-Zitawi, Sufian Khawaldeh and Mohammed Almasarweh. "Privacy and Control in Mobile Cloud Systems". *International Journal of Computer Applications*. To be published in March 2015.
- [3] Tariq Alwada'n. "Mobility in Cloud Systems". *International Journal of Computer Trends and Technology (IJCTT)*. Volume 11, Number 5, May 2014.
- [4] Tariq Alwada'n, Adel Hamdan Mohammad and Hamza Aldabbas. "Privacy in Cloud Systems". *International Journal of Computer Applications*. Volume 93, Number 2, May 2014.
- [5] Tariq Alwada'n, Adel Hamdan Mohammad, Nidhal El-Omari and Hamza Aldabbas. "An Overview of an Advanced Vehicle Security System". *International Journal of Computer Science and Information Security*. Volume 12, Number 3, March 2014.
- [6] Tariq Alwadan, Thair khmour, Helge Janicke, Abdulsalam Alarabeyyat and Abdel Rahman Alkharabsheh. "Policy-Based Support for Mobile Grid Services". *International Journal of Computer Science Issue*. Volume 10, Issue 1, Number 3, January 2013.
- [7] Adel Hamdan, Tariq Alwad'n and Jafer Abbanah. "Agile Software Methodologies: Strength and Weakness". *International Journal of Engineering Science and Technology (IJEST)*. Volume 5, Issue 3, March 2013.
- [8] Abdel Rahman Alkharabsheh, Lina Momani, Waleed Al-Nuaimy, Jafar Ababneh, Tariq Alwada'n and Abeer Hawatmeh. "Early Fault prediction and detection of hydrocephalus shunting system". *J. Biomedical Science and Engineering*. Volume 6, Number 3, March 2013.
- [9] Hosam ALHakami, Hamza Aldabbas and Tariq Alwada'n. "Comparison Between Cloud and Grid Computing: Review Paper". *International Journal of Advanced Computer Science and Applications (IJCCSA)*. Volume 2, Number 4, August 2012.
- [10] Tariq Alwadan, Hamza Aldabbas, Helge Janicke, Thair Khmour and Omar Aldabbas. "Dynamic Policy Management in Mobile Grid Environments". *International Journal of Computer Networks and Communications (IJCNC)*, Volume 4, Number 2, March 2012 .
- [11] Hamza Aldabbas, Tariq Alwadan, Helge Janicke and Ali Al-Bayatti. "Data Confidentiality in Mobile Ad hoc Networks". *International Journal of Wireless and Mobile Networks (IJWMN)* Volume 4, Number 1, February 2012.

- [12] Tariq Alwadan, Helge Janicke, Omer Aldabbas and Mai Alfawair. "New Framework for Policy Support for Mobile Grid Services. Risk and Security of Internet and Systems (CRiSIS), IEEE Computer Society. Timisoara, Romania 2011.
- [13] Tariq Alwadan, Helge Janicke, Omer Aldabbas and Hamza Aldabbas. "New Framework for Dynamic Policy Management in Grid Environments". In *Proceedings of CoNeCo2011 in Communications in Computer and Information Science*, Volume 162, Part 2, pp 297-304, Ankara, Turkey (LNCS, Springer) 2011.

- [14] Hamza Aldabbas, Helge Janicke , Radwan AbuJassar and Tariq Alwadan. Ensuring Data Confidentiality And Privacy In Mobile Ad hoc Networks. To appear in proceedings of the 3rd International Conference on Wireless and Mobile Networks (WiMoNe-2011), (LNICST, Springer), January 2-4, Bangalore, India, 2012.

TEACHING
EXPERIENCE

- **Faculty of Information Technology, WISE University, Amman, Jordan**

Assistant Professor

September 2012 till now

Assistance Dean for Student Affairs

- **Ministry of Education, Amman, Jordan**

Instructor

January 2006 to September 2006

- Instructor for Computer and Networks Skills
 - Communication and interpersonal skills.
 - Critical and creative thinking
 - Knowledge mobilization and knowledge translation

PROFESSIONAL
SERVICE

Conference Service

- A program committee member/reviewer of The Fourth International Conference on Networks and Communications (NETCOM 2012) to be held in Chennai in December, 2012.
- Editorial board reviewer of the International Journal on Web Service Computing (IJWSC) as well as PCM member of the related conferences of AIRCC worldwide.
- Editorial board reviewer for the International Journal of Computer Networks and Communications (IJCNC), March 2012.

PROFESSIONAL
EXPERIENCE

Jordan Securities Commission, Amman, Jordan

Computer Network and Systems Engineer

October 2009 to January 2010

- Plans, develops, deploys, tests and optimises network and system services.
 - Taking responsibility for configuration management and overall operational readiness of network systems, especially environments with multiple operating systems and configurations.
 - Providing troubleshooting and fault-finding services for network problems.
 - Installing, configuring, testing, maintaining and administering new and upgraded networks, software database applications, servers and workstations.
 - Monitoring network traffic, and activity, capacity and usage to ensure continued integrity and optimal network performance.

Ministry of Education, Amman, Jordan

Network Engineer

January 2006 to September 2006

- Part of 12 engineers team responsible for:
 - Providing 1st and 2nd line desktop support, software testing, proactive network troubleshooting and management.
 - Managing internal network operations including the setting up of hardware, installing software and maintaining systems.
 - Configuring switches and Access Points.
 - Windows 2000 server environment.

- Administering the use of (LANs), (WAN) and Wireless LAN.
- Wireless network troubleshooting.
- Routine maintenance of the computers and network.
- Installing and maintaining software and hardware.

Jordan Engineers Association, Amman, Jordan

Computer Engineer

July 2005 to January 2006

- Supervising and assessing the construction of buildings in Amman.

Civil Aviation Authority, Amman, Jordan

Network Engineer

October 2004 to January 2005

- Troubleshooting and trouble ticketing services.
- Resolve issues at client sites.
- Wireless network troubleshooting.
- Controlling user access to network resources and managing user data.
- Technical Support Analyst 2nd line, Including
 - Installation and 2nd line support of 130+ centrally managed PCs.
 - Domain and user administration.
 - Application installation, support and testing.

SPECIAL COURSES

CISCO,

CCNA Instructor

Cisco Networking Academy, Princess Sumaya University for Technology

March 2015

- CCNA 1: Introduction to Networks
- CCNA 2: Routing and Switching Essentials
- CCNA 3: Scaling Networks
- CCNA 4: Connecting Networks

Microsoft,

MCSE

May 2009

- Windows servers, domain management and Active Directory.
- DHCP, NTFS and WINS.
- Terminal Services.
- Routing and Remote Access.
- IIS

CISCO,

CCNA Certification

January 2006

- Network terminology and protocols.
- Local-area networks (LANs) and wide area networks (WANs).
- Open system Interconnection (OSI) models), and network standards.
- Cabling, cabling tools, Ethernet.
- Internet Protocol (IP) addressing includes (but is not limited to) the use of these protocols: IP, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interface Protocol Frame Relay, Routing Information Protocol Version 2 (RIPv2), VLANs, Ethernet, access control lists (ACLs).
- The ability to install configures, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN.

PC.NET.Amman, Jordan,

(PIC) Micro controller

January 2006

- Working on Wide range of interfaces including IC, SPI, USB, USART, A/D, programmable comparators, PWM, LIN, CAN, PSP, and Ethernet.
- RISC architecture
- Built in oscillator with selectable speeds.

HARDWARE AND SOFTWARE SKILLS Computer Programming:

- C, C++, Java, JavaScript, AppleScript, SQL, MySQL, MS Access, MATLAB, Assembly, Visual Basic, VB.NET, ASP.NET, HTML and others.

Simulation Tools:

- OPNET, Ethereal, Jade, Programmable Logic Controller (PLC), AutoCAD and others.

Information/Internet Technology:

- Networking (UDP, TCP, ARP, DNS, Dynamic routing), Services (SQL, POP, IMAP, SMTP)

Operating Systems:

- Microsoft Windows family, Linux

LANGUAGES Arabic

English

SUMMARY OF MY PHD THESIS

In this research, a new policy management tool has been introduced to solve the mobility limitation and data confidentiality especially in the case of mobile sharing and data movements within the grid. We present a dynamic and heterogeneous policy management framework that can give a clear policy definition about the ability to move jobs, data and application software from nodes to nodes during jobs' execution in the grid environment. This framework supports a multi-organization environment with different domains, supports the external grid user preferences along with enforces policies for data movements and the mobility feature within different domains.

The results of our research have been evaluated using Jade simulator, which is a software framework fully implemented in Java language and allows agents to execute tasks defined according to the agent policy. The simulation results have verified that the research aims improve the security and privacy performance in the grid environments. They also show enhanced control over data and services distribution and usage and present practical evidence in the form of scenario test-bed data as to the effectiveness of our architecture.

SUMMARY OF MY M.Sc. DISSERTATIONS

As P2P has received more attention in research, product improvement, and business circles, I had simulated a P2P system using a network simulator, and performed some analysis for a number of performance features and compares them to client-server counterparts.

REFERENCES

1. Dr.Yaseen Alsharif. Dean of the faculty of information technology, and director of the computer center, WISE University, Amman, Jordan. it.fac@wise.edu.jo. Tel: 00962777608452.
2. Dr.Adel Hamdan. Head of computer science department. WISE University, Amman, Jordan. adel.hamdan@wise.edu.jo. Tel:00962785557100.
3. Dr.Helge Janicke. Senior lecturer in computer security. Software Technology Research Laboratory, De Montfort University, Leicester, UK. heljanic@dmu.ac.uk. 0044 (0) 116 257 7617.