

Curriculum Vitae



PERSONAL INFORMATION

Name : Dr. Abdallah Darweesh Qusef
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INTRODUCTION

For years, he was fascinated by computers. He is attracted to understand every aspect of its operation. This interest led to an extensive history working with computer software. In 2001, he received the Bachelors degree in Computer Science from University of Jordan, Jordan with a *very good* rate. As part of the fulfillment of the requirements of Bachelors degree, he worked on many undergraduate projects, such as Students Registration System using Oracle DB and developer tools, Compiler Programming and Decision Support System using C++ and Java languages respectively.

In 2005, he completed his master degree at Al-Balqa Applied University in Jordan, researching on "Discrete Logarithm Attack against RSA Cryptosystem", with two publications on a new kind of attack against RSA depending on solving Discrete Logarithm function. Due to his hard working he graduated with an *excellent* rate.

In 2009 he was admitted, with scholarship, to the PhD program in Computer Science at the University of Salerno (Italy) under the supervisor Prof. Andrea De Lucia. He received the PhD degree in Computer Science with specialization in Software Engineering from the University of Salerno (Italy) in 2012. He is a member of IEEE, ACM, and the Software Engineering Lab at the same University. He is program committee of many conferences like ICSEA2017, AEECT2017, ICIT2017, ICIA2017 and ISSE2017. Moreover, he is a reviewer of many international journals like Journal of Computer Science and Technology, Patents on Computer science, international journal On Advances in Software, Neural Computing and Applications, and American Journal of Computer Science and Information Engineering.

WORK AND ACADEMIC EXPERIENCE

Since 2001, he has worked in Royal Scientific Society (RSS), which is the largest applied research institution, consultation and technical service provider in Jordan, with more than 600 members of staff. As part of his work, he participated in RSS projects as analyst and designer using different techniques in Database Design and Oracle/Java programming. He had the satisfaction of seeing many of my own templates are used by programmers and some designers, and he was proud of seeing many of his projects applicable by different users.

During the period from 2001 to 2009, he was participated in analyzing, designing and programming multi of administrative and financial systems in many ministries and governmental departments in Jordan like: Ministry of Communications, Ministry of Agriculture, Ministry of Public and Housing, Civil Service Bureau and Income Tax Department.

After he finished his PhD study, he got a research grant for one year from University of Salerno in Italy. During this year he co-authored in many research articles and taught and supervised many projects for undergraduate students. Currently, he is a head of Software Engineering department at PSUT University which is the best university in computing sciences in Jordan. He presents a consultation serveries related to software quality assurance and project management topics in many organizations and ministries. He is one of the founders of the National Software Quality Assurance Center at RSS.

RESEARCH ACTIVITY

His research interests include network security, software maintenance and evolution, traceability management, agile software development and software testing. Currently his research is based on several trends including:

1) Agile Software Development.

The agile development is creating a stir in the software development community. Agile development methodologies have been designed to address the problem of delivering high quality software on time under constantly and rapidly changing requirements and business environment. Agile development processes are characterized by extensive coding practice, intensive communication between key stakeholders, small and flexible teams and fast iterative cycles. The main research area is to study the requirements engineering process in agile software development life-cycle and address the requirements traceability problem in agile development environment to maintain the traceability links between agile software artefacts and to keep the consistency among agile software artefacts during refactoring process.

2) Software Traceability

Traceability has been defined as "*the ability to describe and follow the life of an artefact, in both a forwards and backwards direction*". Thus, traceability links help software engineers to understand the relationships and dependencies among various software artefacts (requirements, code, tests, models, etc.) developed during the software lifecycle. The main research topic related to define methods to identify and evolve the traceability links between test cases and related code to control co-changes process based on code analysis techniques like program slicing.

3) Empirical Software Engineering

Empirical software engineering is a sub-domain of software engineering focusing on experiments on software systems (software products, processes, and resources). It is interested in devising experiments on software, in collecting data from these experiments, and in devising laws and theories from this data. Proponents of experimental software engineering advocate that the nature of software is such that we

can advance the knowledge on software through experiments only. The scientific method suggests a cycle of observations, laws, and theories to advance science. Empirical software engineering applies this method to software.

4) Cryptography and Network Security

Cryptography is the science of writing in secret code and is an ancient art; the first documented use of cryptography in writing dates back to circa 1900 B.C. During this time when the Internet provides essential communication between tens of millions of people and is being increasingly used as a tool for commerce, cryptography and information security become a tremendously important issue to deal with. The main research topic related to study different types of attacks that affecting the security of well-known protocols. Although I am originally a specialist in cryptography, my research interests are gradually broadening over time!

PUBLICATIONS

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