


<b>PERSONAL INFORMATION</b>		
<b>Name:</b> Feras Ahmad Hamid Hanandeh, Professor		
<b>Current Position:</b> Professor of Computer Information Systems at Prince Al Hussein Bin Abdullah II Faculty of Information Technology, Al-Hashemite University, Jordan.	<a href="mailto:feras@hu.edu.jo">feras@hu.edu.jo</a>	

**ACADEMIC POSITION:**

- From 16<sup>th</sup> July 2018 – Present. Professor. Computer Information Systems Department, Prince Al Hussein Bin Abdullah II Faculty of Information Technology, Al-Hashemite University, Jordan.
- From 8<sup>th</sup> September 2015 – Present. Dean of Prince Al Hussein Bin Abdullah II Faculty of Information Technology, Al-Hashemite University, Jordan.
- From 25<sup>th</sup> March 2013 – Present. Associate Professor. Computer Information Systems Department, Prince Al Hussein Bin Abdullah II Faculty of Information Technology, Al-Hashemite University, Jordan.
- From 13<sup>th</sup> September 2010–14<sup>th</sup> September 2011. Assistant Dean, Prince Al Hussein Bin Abdullah II Faculty of Information Technology, Al-Hashemite University, Jordan.
- From 13<sup>th</sup> September 2009–24<sup>th</sup> March 2013. Assistant Professor. Computer Information Systems Department, Prince Al Hussein Bin Abdullah II Faculty of Information Technology, Al-Hashemite University, Jordan.
- From 14<sup>th</sup> September 2008–13<sup>th</sup> September 2009. Head of the Information Technology Department, Al Balqa Applied University, Jordan.
- From 17<sup>th</sup> September 2007–14<sup>th</sup> September 2008. Head of the Computer Information Systems Department, Prince Al Hussein Bin Abdullah II Faculty of Information Technology, Al-Hashemite University, Jordan.
- From 10<sup>th</sup> September 2006–14<sup>th</sup> September 2008. Assistant Professor. Computer Science Department, Prince Al Hussein Bin Abdullah II Faculty of Information Technology, Al-Hashemite University, Jordan.
- From 1<sup>st</sup> July 2005 to 10<sup>th</sup> September 2006. Lecturer (Full time), Multimedia University, Malaysia,
- Lecturer (Part time), Yarmouk University, Jordan, 2001..
- Lecturer (Part time), Al Balqa Applied University. 2001–2002.

## ACADEMIC HISTORY:

- **Doctor of Philosophy in Parallel Databases**  
July 2006, University Putra Malaysia, Malaysia  
Title of Thesis: Integrity Constraints Maintenance for Parallel Databases.
- **Master of Science in Distributed Computing**  
February 2001, University Putra Malaysia, Malaysia
- **Bachelor of Science in Computer Science**  
January 1993, Yarmouk University, Jordan.

## OTHER EMPLOYMENT HISTORY:

Senior Programmer (Full time), Al Yarmouk University. 1993–2005.

## PROFESSIONAL MEMBERSHIPS AND JOURNAL & CONFERENCE ACTIVITIES:

KEYNOTE SPEAKER at the Second International Joint Conference on Advances in Signal Processing and Information Technology – SPIT 2012, during Sep 20–21, 2012, in DUBAI.

SENIOR MEMBER of the ACEEE technical community / Netherlands

Technical committee member and reviewer in the International Arab Conference on Information Technology (ACIT).

Reviewed and refereed submissions for International Magazine on Advances in Computer Science and Telecommunications (IMACST, <http://www.imacst.com>).

## PUBLICATIONS:

### Books

1. Feras Hanandeh, Mutaz Al-Khazaaleh "The Simple in Advanced Programming Using Visual Basic", 2009.

### Journal Papers

1. Yasser Qawasmeh, Sari Awwad, Ahmed Otoom, Feras Hanandeh, Emad Abdallah, "Local Patterns for Offline Arabic Handwritten Recognition", accepted to be published in the Int. J. Advanced Intelligence Paradigms.
2. Feras Hanandeh , Ahmad A. Saifan , Mohammed Akour , Noor Al-Hussein , Khadijah Shatnawi, " Evaluating Maintainability of Open Source Software: A Case Study, accepted to be published in the " International Journal of Open Source Software and Processes (IJOSSP): Volume 08, Issue 1

3. Feras Ahmad Hanandeh. 'Horizontal partitioning method for test verification in parallel database systems. The Int. J. Advanced Intelligence Paradigms, Vol. 9, No. 1, 2017.
4. Feras Hanandeh, Alsmadi, I., Mohammad Okoor and Essam Al Daoud. 'KP-Trie Algorithm for Update and Search Operations'. International Arab Journal of Information Technology, November 2016 ,Vol. 13, No. 6, pp. 722-728.
5. Ahmad A. Saifan, Mohammed Akour, Iyad Alazzam and Feras Hanandeh." Regression Test-Selection Technique Using Component Model Based Modification: Code to Test Traceability" International Journal of Advanced Computer Science and Applications. Vol. 7, No. 4, 2016
6. Feras Hanandeh, Alsmadi, I., Mohammad Okoor and Essam Al Daoud. 'KP-Trie Algorithm for Update and Search Operations'. The International Arab Journal of Information Technology , Vol. 13, No. 6, November 2016.
7. Alaa E. Abdallah, Emad E. Abdallah, Feras Hanandeh, Ashraf Aljammal and Essam Al-Daoud." Power Aware Ant Colony Routing Algorithm for Mobile Ad-hoc Networks". International Journal of Software Engineering and Its Applications. 2015-Vol. 9, No. 12, pp. 197-212.
8. Mohammed Akour, Iyad Alazzam, Feras Hanandeh and Iman Akour. 'A systematic Literature Review to Classify Pre and Post Test Suite Reduction Techniques'. International Journal of Mathematics and Computers in Simulation. 2015 – Vol.9, pp. 181 – 189.
9. Feras Ahmad Hanandeh, Izzat Alsmadi, Majdi Yousef Al-Shannag, Essam Al-Daoud. 'Mobile Agents Modeling Using UML'. Int. J. Business Information Systems 2015 – Vol. 19, No. 4, pp. 419 – 432.
10. Essam Al Daoud, Rafat Alshormanı and Feras Hanandeh. ' A New Efficient Meta-Heuristic Optimization Algorithm Inspired by Wild Dog Packs'. International Journal of Hybrid Information Technology 2014 – Vol. 7, No. 6, pp. 83-100.
11. Al-Daoud, E., Hanandeh, F., Abdallah, E.E. and Abdallah, A.E. 'Texture Recognition by Using a New Non- Linear Kernel' International Journal of Computer Applications in Technology archive Volume 48 Issue 3, October 2013, Pages 235-240.
12. Hanandeh, F., Abdallah, E.E., Abdallah, A.E. and Al-Daoud, E. 'Simplified approach for generating integrity tests in distributed database systems' the Int. J. of Innovation and Learning 2013 – Vol. 13, No.4 pp. 375 – 387.
13. Hanandeh, F., Abdallah, E.E., Idwan, S. and Alsmadi, I. 'Checking the efficiency of integrity tests in distributed and parallel database', the Int. J. of Business Information Systems 2012 – Vol. 11, No.2 pp. 235-252.
14. Feras Hanandeh, Mutaz Al-Khazaaleh ,Hamidah Ibrahim and Rohaya Latip, "CFS: A New Dynamic Replication Strategy for Data Grids", the International Arab Journal of Information Technology, Vol. 9, No. 1, January 2012, pages 94 – 99.
15. Sahar Idwan, Ebaa Fayyoubi, Feras Hanandeh, Hiba Muhareb and Bilal Daghmarsh. 'BlueThunder overcomes the current drawbacks of the Bluetooth wireless technology', the Int. J. of Business Information Systems 2013 – Vol. 12, No.2 pp. 194 – 209.
16. Izzat Alsmadi and Feras Hanandeh, "A framework for teaching software engineering introductory courses", the Int. J. Education Economics and Development, Vol. 2, No. 4, 2011, pages 380 – 397.

17. Essam Al-Daoud, Belal Zaqibeh, Feras Hanandeh "Integer and Vector Multiplication by Using DNA" Int. J. Open Problems Comp. Math., Vol. 1, No. 2, September 2008, pages 86 –94.
18. Hamidah Ibrahim, Feras Hanandeh, Ali Mamat, Rozita Johari, "Performance of Integrity Tests in Parallel Database Systems", The Journal World Scientific and Engineering Academy and Society (WSEAS) Transactions on Computers, Vol. 6, April 2007, ISSN 1109-2777, pages 881 – 886.
18. Feras Hanandeh, Hamidah Ibrahim, Ali Mamat, Rozita Johari, "Virtual Rule Partitioning Method for Maintaining Database Integrity". The International Arab Journal of Information Technology, Volume 1, No. 1, January 2004, pages 103-108.

### **Conference Papers**

1. Feras Hanandeh, Izzat Alsmadi and Muhammad M. Kwafha, 'Evaluating Alternative Structures for Prefix Trees' Proceedings of the World Congress on Engineering and Computer Science, Vol I WCECS 2014, 22-24 October, 2014, San Francisco, USA, pages 109-114.
2. Feras Ahmad Hanandeh and Majdi Yousef Al-Shannag, "Extending UML State Diagrams to Model Agent Mobility", Proc. of Int. Conf. on Advances in Information and Communication Technologies, Netherlands, December 2011, pages 163-166.
3. Rohaya Latip , Hamidah Ibrahim and Feras Hanandeh, " Scientific Data Sharing Using Clustered-Based Data Sharing (CDS)", Proceedings KNOWLEDGE MANAGEMENT 5th International Conference, Malaysia, May 2010, pages 579-584. **Best Paper Award.**
4. Feras Hanandeh, "Constraint & Test Verification in Parallel Database Systems", Proceedings of DepCoS-RELCOMEX. 2008, pages 269-276.
5. Feras Hanandeh, "Integrity Enforcement in Parallel Database Systems", Proceedings of the 2006 International Arab Conference on Information Technology (ACIT2006), Yarmouk University, Jordan, 2006.
6. Feras Hanandeh, Hamidah Ibrahim, Ali Mamat, Rozita Johari, "A Method for Constraint Simplification in Database Systems", The fourth ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-06), American University of Sharjah (AUS) & Dubai Silicon Oasis (DSO).
7. Feras Hanandeh, Hamidah Ibrahim, Ali Mamat, Rozita Johari, "Integrity Constraints Maintenance for Parallel Database Systems", Proceedings of the Seventh International Conference on Information Integration and Web Based Applications & Services (iiWAS2005), vol.2, Malaysia, September 2005, pages 1043-1055.
8. Feras Hanandeh, Hamidah Ibrahim, Ali Mamat, Rozita Johari, "Integrity Rule Optimization and Extension to Constraints for Transaction Repair System". Proceedings of the 2003 International Arab Conference on Information Technology (ACIT2003), volume 1, Egypt, December 2003, pages 60-69.
9. Feras Hanandeh, Hamidah Ibrahim, Ali Mamat, Rozita Johari, "Generating Repair Rules for Database Integrity Maintenance". Proceedings of the Conference in Conjunction with the Public Institutions of Higher Learning (IPTA) Research & Development Exposition (IPTA2003), volume 4, UPM, Malaysia, October 2003, pages 93-96.

10. Feras Hanandeh, "Run Time Repair Rules for Integrity Maintenance Subsystems". Proceedings of the International Conference on Information Technology & Natural Science (ICITNS2003), volume 1, Al-Zaytoonah University, Jordan, October 2003, pages 368-371.
11. Feras Hanandeh and Hamidah Ibrahim, "A Strategy for Integrity Preservation in Relational Databases". Proceedings of the Fourth Workshop on Information and Computer Science – Internet Computing, IEEE Computer Society, Saudi Arabia, 17-18 March 2002, pages 95-103.
12. Feras Hanandeh and Hamidah Ibrahim, "A Strategy for Semantic Integrity Maintenance for Parallel Relational Database Systems". Proceedings of the 2002 International Arab Conference on Information Technology (ACIT2002), volume 2, Qatar, December 2002, pages 714-719.

#### **RESEARCH INTERESTS:**

- Parallel Databases
- Distributed Databases
- Parallel Processing
- Grid Computing
- Data Mining
- Artificial Intelligence



#### **RESEARCH PROJECTS:**

- 80,000 JD Co-applicants Dr. Ahmad Khasawneh, Dr. Emad E. Abdallah, Dr. Ibrahim Obeidat, and dr. Feras Hanandeh, Deanship of scientific Research - Hashemite University - new researchers' start-up program (Dec. 2010 ~ Dec. 2012) Topic: Capacity Building of eLearning Systems at Hashemite universities.
- Member in Erasmus Plus funded project (€989K), Development of Health informatics integrated curricula in computing and health-oriented undergraduate degree (HiCure), from 15 October 2015 until 14 October 2018.

#### **AWARDS:**

- Silver Medal, for the invention / innovation of the research title: Integrity Constraints Maintenance for Parallel Database Systems/UPM/Malaysia.
- The Best Paper Award, for the paper title: "Scientific Data Sharing Using Clustered-Based Data Sharing (CDS) in Grid Environment" Presented in the Knowledge Management International Conference 2010 (KMICe 2010) / Malaysia.

- **Letters of appreciations for my volunteer:**

-  From Hashemite University president for the efforts that leads to a great success of the students' council elections of the Hashemite University 2008.
-  From Hashemite University vice president for my contribution in organizing the IT students graduation projects exhibition 2008.

## **Resume Hamandeh, Feras (Ph.D.)**

- ✚ From Hashemite University vice president for preparing the IT faculty strategic plan 2008.
- ✚ From Hashemite University vice president for my contribution in organizing the IT students graduation projects exhibition 2009.
- ✚ From Zarqa mayor for my effort as a main coordinator in the sixteenth parliament elections in Zarqa province 2010.
- ✚ From Hashemite University president for developing and maintaining a new administration computerized system for Zarqa province 2010.
- ✚ From Irbid mayor for implementing and developing a new object oriented software for computerizing the archive system in the Irbid province 2004.
- ✚ From Hashemite University president for my supervision on a unique graduation project that uses the latest technology to design and develop an inventory system for ministry of education / Al-Zarqa province 2011.
- ✚ From the director of MABARRAT OM AL HUSSEIN for my volunteer work to provide an outstanding database design for the children with special needs programs.
- ✚ From the chairman of the board of Jordan swimming national teams for designing an electronic program for the local tournaments held by the Union.
- ✚ From the chairman of the Hashemite municipality for designing an electronic program for the municipality.

**SUBJECTS TAUGHT**

**ACADEMIC SERVICES** Lecturer/tutor and course development for many courses of IT related courses at the Computer and Information Technology.

**Yarmouk University, Al-Balqa University and Al-Hashemite University / Jordan**

**Multimedia University / Malaysia.**

**Under Graduate Courses**

- Operating Systems
- Advanced Operating Systems
- System Analysis & Design
- System Programming
- Visual Programming
- Database Systems
- Advanced Database Systems
- Computer Scientific Skills
- Artificial Intelligence
- Programming Language II
- Ethics & Professional Conducts
- C++ Programming Language
- Databases Design
- Office Programming
- Special Topics in Information Systems and software engineering
- Visual Basic Programming Language

**Other Academic Duties**

- various students' final year projects for different subjects
- Examiner for final year projects
- Active member of the Research Center of Multimedia Computing Advanced Reading and Projects
- Faculty final paper internal examiner for database systems
- Information Systems Design

**SUMMARY OF QUALIFICATIONS & TRAINING COURSES**

- INGRES/Vision for INGRES/ABF Developers, Computer Application & Technical Services (CATS), 1994.
- INRES User Interfaces, Computer Application & Technical Services (CATS), 1994.
- INGRES/SQL & Report Writer, Computer Application & Technical Services (CATS), 1994.
- Application Development in INGRES using INGRES / ABF, Computer Application & Technical Services (CATS), 1994.
- NOVELL NETWARE 3.11, Computer & Communications Systems (CCS), 1995.
- Introduction to Oracle SQL and PL/SQL, Palestine Engineering Co. Amman-Jordan, 1999.
- ICDL certificate From Yarmouk ICDL center, 2001.

- ICDL trainer and tester since 2001.
- Oracle 9i AS: Develop Web-Based Applications with PL/SQL, Yarmouk University, 2002.
- Programming using C++, JAVA, PASCAL, FORTRAN, PROLOG, VISUAL BASIC, GPSS, and HTML.
- Many courses of Computer related Applications, programming, Computer Networking and Telecommunications, Databases and Marketing, which was held Jordan.

**REFERENCES:**

- His Excellency Eng. Basem Rousan, Former Minister of Communications and Information Technology Jordan  
Email: [moict@moict.gov.jo](mailto:moict@moict.gov.jo)
- Prof. Dr. Kamal Bani-Hani, The Hashemite University President  
Email: [k\\_banihani@hu.edu.jo](mailto:k_banihani@hu.edu.jo)
- Prof. Dr. Saad Abo-Qudais  
Jordan University of Science and Technology  
Email: [aboqdais@just.edu.jo](mailto:aboqdais@just.edu.jo)
- Mr. Ahmad Hanandeh, The CEO of Zain Telecommunication / Jordan  
Email: [CEO@jo.zain.com](mailto:CEO@jo.zain.com)
- Prof. Dr. Hamidah Ibrahim.  
University Putra Malaysia, Faculty of Computer Science and Information Technology.  
Email: [hamidah@fsktm.upm.edu.my](mailto:hamidah@fsktm.upm.edu.my)