

HANI A. BANI-SALAMEH

Associate Professor

Department of Software Engineering

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SUMMARY

Hani Bani-Salameh is an Associate Professor in the Software Engineering Department at The Hashemite University, Jordan. He holds a B.Sc. in Computer Science, a M.Sc. in Computer Science from New Mexico State University (NMSU), and a Ph.D. in Computer Science from the University of Idaho (UI). His research interests include software engineering, collaborative software development in virtual environments, data science, big data software engineering, and artificial neural networks.

EDUCATION

University of Idaho, Moscow, Idaho

Ph.D. in Computer Science

September 2011

Dissertation: "A Social Collaborative Distributed Software Development Environment"

New Mexico State University, Las Cruces, New Mexico

M.Sc. in Computer Science

May 2007

Project: "Developing a Multilanguage IDE for the VIEW Virtual Environment"

Irbid National University, Irbid, Jordan

B.Sc. of Science in Computer Science

July 1999

TEACHING EXPERIENCE

Associate Professor

Dec. 2016 – Present

The Hashemite University, Department of Software Engineering

Assistant Professor

Sep. 2011 – Dec. 2016

The Hashemite University, Department of Software Engineering

Department Chair -

Sep. 2013 – Sep. 2015

RELATED EXPERIENCE

Visiting Researcher July 30, 2015 – September 10, 2015

University of Idaho, School of Computer Sciences, Idaho, USA,

- Conducted a research related to “**Evaluating the Effect of 3D Word Integration within a social Software Environment**”
- Prepared and presented a paper related to notification management in collaborative development environments.

Research Assistant (CVE project)

May 2005 – August 2011

University of Idaho & New Mexico State University

- Developed a multi-language social development environment named SCI.

Lab Assistant

August 2006 – May 2007

New Mexico State University, Communication Studies Department

- Department labs and offices computer support.

Lab Assistant

January 2005 – May 2006

New Mexico State University, Dona Ana Branch Community College

- Labs and offices computer support, including computers fixing and software installation.

Lab and Teaching Assistant

October 1999 – August 2004

Jordan University of Science and Technology (JUST), Irbid Jordan

- Taught programming languages in lab such as C, C++, and
- Provided technical assistant to all computer science dept. staff, faculty and students.

Trainer and Tester

July 2001 – August 2004

Jordan University of Science and Technology (JUST), Irbid Jordan

- Trainer and certified tester, center of *International Computer Driving License (ICDL)* at Jordan University of Science and Technology.
- Trained, graded, managed and administrated tests, filing, and support.

PUBLICATIONS/PAPERS

Conference Papers:

1. Wedyan, F., Wedyan, S., Freihat, R., Bani-Salameh, H., Yousef, H. Domain Analysis of Formal Model Checking Tools. In the proceedings of the International Conference on Engineering & Technology 2017 (ICET 2017), Antalya, Turkey, pp. \$\$-\$\$, August 21-24, 2017.
2. Bani-Salameh, H., AbuHjeela, F., and Bani-Salameh, D. *Using Social Development Environments in Introductory Computer Science Classrooms: a Case Study on SCI*. In the proceedings of the 2017 2nd International Conference on Information Systems Engineering (ICISE2017), College of Charleston, South Carolina, USA, pp. \$\$-\$\$, April 1-3, 2017.
3. Al-Maani, D., Bani-Salameh, H. *A Generic Model for Evaluating the Usability of Learning Management Systems*. In the proceedings of the Second International Conference on Internet

of Things and Cloud Computing (ICC'2017), University of Cambridge, United Kingdom, pp. \$\$-\$\$, March 22-23, 2017.

4. Bani-Salameh, H., Ahmad, A., and Bani-Salameh, D. ***Software Evolution Visualization Tools Functional Requirements: a Comprehensive Understanding***. In the proceedings of the 11th International Conference on Software Engineering Advances (ICSEA2016), Rome, Italy, pp. 196-200, August 21-25, 2016.
5. Bani-Salameh, H., Ahmad, A., and Aljammal, A. ***Software Evolution Visualization Techniques and Methods – a Systematic Review***. In Proceedings of the 7th International Conference on Computer Science and Information Technology (CSIT2016), Amman, Jordan, pp. 1-6, July 13-14, 2016.
6. Wedyan, F., Bani-Salameh, H., Wedyan, S. ***CodeROID: a Framework for Generating Java Sourcecode Using Tablets and Smartphones***. In Proceedings of the Second International Conference on Advances in Information Processing and Communication Technology (IPCT 2015), pp. 72-77, Rome, Italy, April, 2015.
7. Bani-Salameh, H. and Abu Fakher, S. ***E-Learning Critical Success Factors Models: Empirical Investigation***. In Proceedings of the International conference on Intelligent Information Processing, Security and Advanced Communication (IPAC'2015), Algeria, November 23-25, 2015.
8. Bani-Salameh, H. and Aljawabrah, N. ***Towards a Comprehensive Survey of the Requirements Elicitation Process Improvements***. In Proceedings of the International conference on Intelligent Information Processing, Security and Advanced Communication (IPAC'2015), Algeria, November 23-25, 2015.
9. Bani-Salameh, H., Jeffery, C. ***Evaluating the Effect of 3D World Integration within a Social Software Environment***. In Proceedings of the 12th International Conference on Information Technology: New Generations (ITNG 2015), Las Vegas, Nevada, April 13-15, 2015.
10. Bani-Salameh, H., Jeffery, C. ***Notifications Management in Distributed Development Environments: a Case Study***. In Proceedings of the 2014 International Symposium on Collaborative Technologies and Systems (CTS 2014), pp. 49 – 55, Minneapolis, Minnesota, May 19-23, 2014. (*Acceptance rate 39.5%*).
11. Al-Gharaibeh, J., Jeffery, C., Bani-Salameh, H. ***Building a Collaborative Virtual Environment: A Programming Language Codesign Approach***. In Proceedings of the 2011 International Conference on Cyberworlds (CW 2011), Banff, Canada, October 2011.
12. Bani-Salameh, H., Jeffery, C., Idoush, I. ***Introducing Social Development Environment***. In Proceedings of the 2nd International Conference on Information and Communication Systems (ICICS 2011), Amman, Jordan, May 2011.
13. Bani-Salameh, H., Jeffery, C., Al-Gharaibeh, J. ***A Social Collaborative Virtual Environment for Software Development***. In Proceedings of the 2010 International Symposium on Collaborative Technologies and Systems (CTS 2010), pp. 46 – 55, Chicago, Illinois, May 17-21, 2010.

14. Bani-Salameh, H., Jeffery, C., Al-Gharaibeh, J. ***SCI: Towards a Social Collaborative Integrated Development Environment***. In Proceedings of the Workshop on Social Computing in Education (WSCE09) that held in association with the 2009 International Conference on Social Computing (SocialCom), pp. 915-920, Vancouver, Canada, August 29-31, 2009.
15. Bani-Salameh, H., Jeffery, C., Al-Sharif, Z., Idoush, I. ***Integrating Collaborative Program Development and Debugging within a Virtual Environment***. Groupware: Design, Implementation, and Use. In Proceedings of the 14th Collaboration Researchers International Workshop on Groupware (CRIWG 2008), pp. 107120, Omaha, Nebraska, September 2008.

Journal Articles:

1. Hani Bani-Salameh, Sanaa Alwidian, Maen Hammad, and Fadi Wedyan. ***An Evaluation Model for Social Development Environments***, International Journal of Software Engineering and Its Applications. Vol.8, No.1 (2014), pp. 323 - 336.
2. Hani Bani-Salameh and Clinton Jeffery. ***Collaborative and Social Development Environments - a Literature Review***, International Journal of Computer Applications in Technology, (2014), Vol.49, No.2, pp. 89 – 103.
3. Hani Bani-Salameh, Clinton Jeffery, and Maen Hammad. ***Developers' Social Networks -- Tools Analysis Based on the 3Cs Model***, International Journal of Networking and Virtual Organisations. Vol. 13, No. 2 (2013), pp. 159 - 175. DOI:10.1504/IJNVO. 2013.059685.
4. Maen Hammad, Mustafa Hammad, Hani Bani-Salameh, and Ebaa Fayyoumi. ***Measuring Developers' Design Contributions in Evolved Software Projects***, Journal of Software, Vol. 9, No. 12 (2014), pp. 3005 - 3011.
5. Maen Hammad, Mustafa Hammad, and Hani Bani-Salameh. ***Identifying Designers and their Design Knowledge***, International Journal of Software Engineering and Its Applications, Vol.7, No.6 (2013), pp. 277 - 288.
6. Sanaa Alwidian, Hani Bani-Salameh, Alaa Alslaity. ***Text Data Mining: A Proposed Approach and Future Perspectives***, International Journal of Business Information Systems, (2015), Vol.18, No.2, pp. 127 – 140.
7. Fadi Wedyan, Hani Bani-Salameh, Wajeeha Al-Ajlouni, and Shirin Al-Manai. ***Investigating the Relationship between Software Defect Density and Cost Estimation: An Empirical Study***. Journal of Theoretical and Applied Information Technology, (2015), Vol.82, No.3, pp. 446 – 453.
8. Hani Bani-Salameh, Jafar Al-Gharaibeh, Clinton Jeffery, and Ziad Al-Sharif. ***Collaborative Education in a Virtual Learning Environment***, International Journal of Business Information Systems, Inderscience, (2017), Vol.25, No.4, pp.474 – 489.
9. Muntaha Suliman, Hani Bani-Salameh, Adel Saif. ***Visualizing Communications between Software Developers during Development***, International Journal of Software Engineering and Its Applications. Vol. 10, No. 3 (2016), pp. 131-140.

10. Ashraf Hamdan Aljammal, Hani Bani-Salameh, Ayoub Alsarhan, Mohammad Kharabsheh, Mamoon Obiedat: Node Verification to Join the Cloud Environment Using Third Party Verification Server, (2017), Vol. 11, No. 4, pp. 55-65.

Book Chapters:

1. Hani Bani-Salameh and Clinton Jeffery (Ed.). (2011). *Chapter 02: Teaching and Learning in a Social Software Development Tool*. Social Media Tools and Platforms in Learning Environments: Present and Future, 2011, Part I, 17-35, DOI: 10.1007/978-3642-20392-3_2.

Papers Reviewed / Reviewing Experience:

- Reviewed papers and journal articles for (sample):
 - The Journal of Information Science (JIS) - <http://jis.sagepub.com>
 - IJCAT.
 - IJSEKE.
 - ICICS 2014, Amman-Jordan.
 - CSIT 2013, Amman-Jordan.
 - ICICS 2011, Amman-Jordan.
 - CHI 2011, May 7–12, 2011, Vancouver, BC, Canada.
 - HICSS - 44 2011, January 4-7, Poipu, Kauai, Hawaii.

RESEARCH FUNDING AND GRANTS

1. Title: **“Evaluating the Effect of 3D Word Integration within a social Software Environment”**.
 - Source: Deanship of Scientific Research - Hashemite University
 - Amount: JD 1500 (Travel)
2. Title: **“Studying the Effect of Notifications Management in Collaborative”**.
 - Source: Deanship of Scientific Research - Hashemite University
 - Amount: JD 18,000 (Instruments, Installing a Virtual Environments Lab).
3. Title: **“Empowering Hashemite University through Blended Learning”**.
 - Source: Deanship of Scientific Research - Hashemite University
 - Period: Start-up program (Dec. 2014 ~ Dec. 2016)
 - Amount: JD 118, 200

MASTER THESIS/DISSERTATION

Supervised:

1. **A Standard-Based Model for Evaluating the Usability of Learning Management System.** Dana Al-Ma’ani, Master Thesis, Hashemite University, Department of Software Engineering, September 2014 - December 2015.
2. **Mining Developers’ Interactions to Understand their Involvement in Open Source Development Environments.** Muntaha Suliman, Master Thesis, Hashemite University, Department of Software Engineering, December 2015 – May 2017.

3. **Assigning Priority Level for Bug Reports using Neural Networks.** Mohammad Sallam, Master Thesis, The Hashemite University, Department of Software Engineering (In Progress).
4. **Towards a Generic Framework for Smart Transportations in Jordan.** Razan Obeidat, Master Thesis, The Hashemite University, Department of Software Engineering (In Progress).

Examined:

1. **“Trade-off Model of Software Requirements for the Application of A balance between Security and Usability Systems”**, Lina Hassan, Master Thesis, The Hashemite University, Department of Software Engineering, Dec. 2015.
2. **“Cost Estimation Framework for Software Projects”**, Shata Al-Qudah, Master Thesis, The Hashemite University, Department of Software Engineering, June 2016.
3. **“Configuration Management for Embedded and Real Time Software in Software Engineering Domain”**, Hanan Zawahreh, Master Thesis, The Hashemite University, Department of Software Engineering, April 2017.
4. **“Empirical Evaluation of the impact of Design Patterns on Software Quality”**, Somia Abufakher, Master Thesis, The Hashemite University, Department of Software Engineering Dec. 2015.
5. **“Generating Higher Order Mutants Using Genetic Algorithms”**, Anas Abo Aljadayl, Master Thesis, The Hashemite University, Department of Software Engineering, Spring 2016.
6. **“”**, Aya Fawri, Master Thesis, The University of Jordan, Department of Software Engineering, July 2017.

RESEARCH INTERESTS

Research interests include:

- Software Engineering - Software Collaboration
- Software development environments
- Collaborative and distributed software development in virtual environments
- Social interactions in developers’ social networks and online environments.
- Big Data software engineering.
- Artificial Neural Networks

COMMITTEES

Participated in the following Committees:

- **Software Engineering Dept. Committees**
 - Appointment and Promotion Committee (President) 2013-2015
 - Graduate Studies Committee (President) 2014-2015
 - Students Guidance Committee (Member) 2016-2018

- **IT Faculty Committees**
 - Graduate Studies Committee (President) 2015-2016
 - Graduation Projects Committee (President) 2014-2015
 - Course Schedule Committee (Member) 2012-2013
 - Scientific Research Committee (Presidents) 2014/2015
 - Curriculum Committee (Member) 2012/2013
- **University Committees**
 - University Council (Member) 2017/2018
 - Scientific Research University (Member) 2018/2019

COURSES TAUGHT

Inside HU:

1. Software Engineering Tools & Methods – Graduate Course
2. Advanced Software Engineering – Graduate Course
3. Each semester the courses consists of different topics. Topics include: Social Network Analysis, Big Data Software Engineering, Domain Engineering, Artificial Neural Networks, Systematic Mapping Studies.
4. Software Quality Assurance
5. Software Documentation
6. Fundamentals of Software Engineering
7. Object Oriented programing 1 with Java
8. Introduction to Programming (C++)
9. Digital Logic Design
10. Discrete Mathematics
11. Graduation Project I
12. Graduation Project II
13. Field Training

Outside HU:

1. Introduction to Problem Solving & Programming using Visual Basic 2010 University of Idaho, Computer Science Department
2. Introduction to Problem Solving & Programming using C++ University of Idaho, Computer Science Department.

CURRICULUM AND COURSE DEVELOPMENTS

- Curriculum Development for the BSc program in Software Engineering at HU. (2014/2015)
- Curriculum Development for the MSc in Software Engineering at HU. (2012/2013).
- Designing several courses, such as:
 1. Fundamentals of Software Engineering
 2. Software Documentation
 3. Web Applications Engineering
 4. Advanced Software Engineering – graduate level course
 5. Software Engineering Methods and Tools – graduate level course

REFERENCES

References are available upon request.