

ADIL FAHAD AL HARTHI

CONTACT INFORMATION	302/350 Abu Aldaif Albaha, Saudi Arabia	+966-539392235 afalharthi@bu.edu.sa
EDUCATION	Royal Melbourne Institute of Technology (RMIT) University, Melbourne, Australia, Melbourne, Australia Ph.D., Doctor of Philosophy (Computer Science) - Machine Learning/Networking, Jan. 2015. <ul style="list-style-type: none">• Thesis Topic: <i>Designing an Accurate and Efficient Classification Approach for Network Traffic Monitoring.</i>• Advisors: Zahir Tari, Ph.D Royal Melbourne Institute of Technology (RMIT) University, Melbourne, Australia, Melbourne, Australia M.S., Information Technology (Graduation With Distinction), Dec. 2008 <ul style="list-style-type: none">• Major: <i>Major: Networking and Security.</i> King Abdulaziz University, Jeddah, Saudi Arabia B.S., Computer Science, 2003	
TRAINING AND SUMMER COURSES	<ul style="list-style-type: none">• Machine Learning - Stanford University.• Pattern Discovery in Data Mining - University of Illinois at Urbana-Champaign.• Computing, Storage and Security with Google Cloud Platform - Google.• Big Data Modeling and Management Systems - University of California, San Diego.• Data Science: R Basics, Harvard University.• Programming for Data Science, Adelaide University.• Statistics and R, Harvard University.• Entrepreneurship Development Program, MIT University.• Leadership and Management for PM Practitioners in IT, University of Washington.• Parallel Computing with MATLAB -Sydney (Chatswood).	
RESEARCH INTERESTS	<ul style="list-style-type: none">• Data Science and Data Modeling.• Machine learning & Artificial Intelligent.• High Dimension Reduction & Feature Selection.• Traffic & Social Data Mining.• Big Data & High Performance Parallel Processing.• Ad-hoc Networks.• Internet of Things (IoT) and 5G.	
TECHNICAL SKILLS	<ul style="list-style-type: none">• Supervised/Unsupervised/Semi-supervised Learning, Ensemble Learning, Bayesian Inference, Feature Selection/Extraction, Sparse Learning, Distributed and Parallel Predictive Modelling (proficient) .• Programming: C, C++, C#, SAS, Java, Matlab, R, Python, PHP, MapReduce, Hadoop and Spark (proficient) .• Databases: SQL Server, MySQL, Oracle (proficient) .• Operating Systems: Windows, LINUX/Unix, iOS (proficient) .• Networking : Traffic monitoring , Network design, Infrastructure and Switching (proficient).	

AWARDS

- Highest Achiever in Research, Al-Baha University, School of Computer Science and Information Technology, Dec 2016.
- Winner of the most popular article in IEEE Transactions on Emerging Topics in Computing, Feb 2017.
- Best paper award in the International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2016), Nov 2016.
- Excellence in Publication Award, RMIT University, Melbourne, Australia, School of Computer Science and Information Technology, Jan 2015.
- Excellence in Publication Award, RMIT University, School of Computer Science and Information Technology, Feb 2014.
- Excellence in Publication Award, Royal Embassy Cultural Mission of Saudi Arabia in the Australia, May 2014.
- Excellence in Publication Award, Royal Embassy Cultural Mission of Saudi Arabia in the Australia, May 2013.
- Excellence in Education Award, Royal Embassy Cultural Mission of Saudi Arabia in the Australia, Dec 2008.
- Excellence in Education Award, Royal Embassy Cultural Mission of Saudi Arabia in the Australia, Dec 2007.

RESEARCH GRANTS AND SPONSORSHIP

Funding for Research Projects (from 2015)

- LPI
Title : *Smart of Internet Farming at Al-Baha Region*, Al-Baha Univeristy, Saudi Arabia, SR 183,000. April 2015-July. 2016.
- PI
Title : *Infrastructure-less Fog Driving Assistance System Using Smartphone*, Al-Baha Univeristy, Saudi Arabia, SR 114,000. March 2016-April. 2017.

SUPERVISION & CONSULTATION

- Co-supervision with Prof. Zahir Tari (RMIT University, Australia): Naif Almuslim, starts on the first March 2015, topic suggested is in the area *An Unsupervised Feature Selection for an efficient and Accurate Anomaly Detection*.
- Co-supervision with Prof. Zahir Tari (RMIT University, Australia): Najlaa Alshatri, starts on the June 2014, topic suggested is in the area of *Classification of Multi Evolving Data Streams Using Fuzzy Sub-clusters*.

WORK EXPERIENCES

- Chairman of Computer Science Department, Al-Baha University, Saudi Arabia. Sep 2018 present
- Director of Higher Education and Research, Al-Baha University, School of Computer Science and IT, Saudi Arabia. Aug 2016 Mar 2018
- Chairman of Computer Information System Department, Al-Baha University, Saudi Arabia. Oct 2015 Aug 2017
- Assistant Professor, Al-Baha University, School of Computer Science and IT, Saudi Arabia. Jan 2015 present
- Vice Dean of library Deanship at Al-Baha University, Al-Baha, Saudi Arabia. Jan 2015 Dec 2015
- Tutor for undergraduate/postgraduate units at School of Computer Science and IT-Melbourne, RMIT University, Australia. Mar 2013 Dec 2014

- Software Developer, RMIT University School of Computer Science and IT- Melbourne, Australia. Oct 2013 Dec 2014
Accomplishment: A modelling Tool for Novel Class Observation in Stream Data, and Testbed for Real-Time Classification for SCADA System.
- Lecturer Department of Computer Science and Information Technology /School of Science at Al-Baha University. Jan 2009 Jan 2010
- Teaching Assistant, Department of Computer Science, Al-Baha University, Al-Baha, Saudi Arabia. Sep. 2004-Oct. 2005
- IT Teacher Alfaydh high school, Al-Baha, Saudi Arabia. Jun. 2003-Jul. 2004

TEACHING
EXPERIENCE

- Data Visualization.
- Data Modeling.
- Machine Learning.
- Data Mining and Data Warehousing.
- Database System.
- Java Programming.
- Algorithm and Analysis.
- Network Security.
- Operating Systems (OS).
- Web server and Web Technology.
- Data Communication.
- Distributed System.
- Practical Software Development.

PROFESSIONAL
SERVICES

- Chair of Data Science and Machine Learning Group at CSIT School.
- Member of the Big Data and Security Research Group at the CS Department.
- Member of the College Academic Affairs at CSIT School.
- Sub-committee Chair of ABET Accreditation Program at CSIT School.
- Coordinator for Machine Learning and Security Group (MSG) at RMIT University. Jan 2015 Dec 2015

REVIEW SERVICES

- Reviewer IEEE Transaction on Parallel and Distributed Systems ISSN 1045-9219.
- Reviewer IEEE Ttransaction on Emerging Topics in Computing ISSN 2168-6750.
- Reviewer IEEE Transactions on Industrial Informatics ISSN 1551-3203.
- Reviewer Neurocomputing ISSN: 0925-2312.

BOOKS AND BOOK
CHAPTERS

1. Z. Hesabi, Z. Tari, A. Goscinski, A. Fahad, I. Khalil, C. Queiroz “Data Summarization Techniques for Big Data - A Survey”, Handbook on Data Centers,1109-1152 Springer New York, 2015.

2. A. Fahad, Muhammad Fermi Pasha, Deris Stiawan, Ismat Aldmour, Rahmat Budiarto, “Smart Real Time Internet of Thing Network Monitoring System”, Powering the Internet of Things with 5G Technologies, IGI Publisher, December 2016.
3. A. Fahad, Z. Tari, “Computer Network Classification for Traffic Management”, *IET Science, Measurement & Technology*, submitted Oct 2017.
4. A. Almalawi, A. Fahad, Z. Tari, “Intrusion Detection in SCADA Systems”, A Wiley-interscience Publication John Wiley & Sons, to appear Aug 2018.

REFEREED
JOURNAL
PUBLICATIONS

1. A. Fahad, Z. Tari, I. Khalil, I. Habib, H. Alnuweiri, Toward an efficient and scalable feature selection approach for internet traffic classification, *Computer Networks* (Published , 2013) (ISI Journal).
2. A. Fahad, Z. Tari, I. Khalil, A. Almalawi, A. Y. Zomaya, An optimal and stable feature selection approach for traffic classification based on multi-criterion fusion, *Future Generation Computer Systems (FGCS)*, (Published 2014) (ISI Journal).
3. A.Fahad, Z. Tari, A. Almalawi, A. Goscinski, I. Khalil, A. Mahmood, PPFSCADA: Privacy preserving framework for SCADA data publishing, *Future Generation Computer Systems (FGCS)*, (Published 2014) (ISI Journal).
4. A. Fahad, N. Alshatri, Z. Tari, A. ALAmri, A. Zomaya, Sebti A Survey of Clustering Algorithms for Big Data: Taxonomy & Empirical Analysis, *IEEE Transaction on Emerging Topic in Computing* (Published, April 2014) (ISI Journal).
5. A. Almalawi, X. Yu, Z. Tari, A. Fahad, I. Khalil, Unsupervised anomaly based detection approach for integrity attack on SCADA systems, *Computers & Security*, (Published, May 2014) (ISI Journal).
6. A.Almalawi, A. Fahad, Z. Tari, I. Khalil, An efficient k-nearest neighbor approach based on various-widths clustering, *IEEE Transactions on Knowledge and Data Engineering*, (Published, August 2015) (ISI Journal).
7. A.ALAmri, P. Bertok, A. Fahad, J. Thom, Towards an Architecture for Managing Semantic Knowledge in Semantic Repositories. *International Journal of Parallel, Emergent and Distributed Systems* (Published, May 2014) (ISI Journal).
8. A.ALAmri, P. Bertok, J. Thom, A. Fahad, The Mediator Semantic Inference Policy Engine for Heterogeneous Semantic Knowledge Bases”. *Future Generation Computer Systems* (Published, April 2015) (ISI Journal).
9. A. Fahad, A.Almalawi, Z. Tari, A.ALAmri An efficient data-driven clustering technique to detect critical states in SCADA systems, *IEEE Transactions on Information Forensics and Security* g(November 2015) (ISI Journal).
10. A. Fahad, Z. Tari, A. Almalawi, S.AIAmri, A.ALAmri SemTra: A Semi Supervised Approach for Traffic Flows Labeling with Minimal Human Efforts, *Information Fusion*, (Accepted October 2017) (ISI Journal).
11. A. Fahad, A. Almalawi, S.AIAmri, A.ALAmri Network Traffic Classification: Motivation, Taxonomies, and Open Challenges, *IEEE Communications Surveys and Tutorials*, (Submitted August 2015) (ISI Journal).
12. A. Fahad, A. Almalawi, Rayed AlGhamdi, S.AIAmri, A.ALAmri Robust Semi-supervised Approach for Internet Traffic Classification Based on Multi-view learning, *Pattern Recognition*, (Submitted January 2017) (ISI Journal).

13. A. Fahad, A. Almalawi, Z. Tari, A.Y. Zomaya A Review on Ensemble Clustering Algorithms for Streaming Data , ACM Computing Surveys (Submitted April 2017) (ISI Journal).
14. Z. Tari, A. Almalawi, A. Fahad, A.Y. Zomaya ,Supervisory Control and Data Acquisition (SCADA): An Introduction, Wiley Encyclopedia of Electrical and Electronics Engineering(published July 2016)
15. A. Almalawi, A. Fahad, Rayed AlGhamdi,Predicting the performance of search engine using anchor-text and query-document similarity scores, Journal of Computer and System Sciences,(Accepted Nov 2017)

REFEREED
CONFERENCES

1. A. Almalawi, Z. Tari, I. Khalil, I. A. Fahad, SCADAVT-a framework for SCADA security testbed based on virtualization technology, 38th, IEEE Conference on Local Computer Networks (LCN), pages 639-646, 2013.
2. A. Almalawi, Z. Tari, A. Fahad, I. Khalil, A framework for improving the accuracy of unsupervised intrusion detection for SCADA systems, 12th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom), pages 292-301, 2013, Published.
3. A. Fahad, K. Alharthi, Z. Tari, A. Almalawi, I. Khalil, CluClas: Hybrid Clustering-Classification Approach for Accurate and Efficient Network Classification, 39th, IEEE Conference on Local Computer Networks (LCN).
4. Romi Fadillah Rahmat, Alvin Rizki, A. Fahad, Rahmat Budiarto, 2016, Big Data Forecasting Using Evolving Multi-layer Perceptron: Gold Price Case Study, proceedings of The 4th KACSTIT conference on Big Data, Riyadh, 6-9 Nov. 2016.
5. Tami Alwajeih, A. Fahad, Romi Fadhilah Rahmat, Rahmat Budiarto, 2016, Fast Learning for Big Data Using Dynamic Function, Proceedings of The 3rd International Conference on Electrical Engineering, Computer Science and Informatics (EECSI), Semarang, Indonesia, 23-24 Nov. 2016

REFERENCES

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