

CURRICULUM VITAE

Ghazi Al-Naymat

Computer Science Department/King Hussein School of Computing Sciences,
Princess Sumaya University for Technology, Amman, Jordan

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Last Updated: 30/5/2018

1. Personal Data

Nationality: Jordanian/ Australian

2. Education

- Ph.D. (Computer Science/Data Mining) 2009, University of Sydney, Sydney, NSW, Australia
- M.Sc. (Computer Science/Data Mining) 2005, University of Sydney, Sydney, NSW, Australia
- B.Sc. (Computer Science) 1998, Mu'tah University, Karak, Jordan

3. Ph.D. Dissertation

- *New Methods for Mining Sequential and Time Series Data*, University of Sydney, Sydney, NSW, Australia.

4. Employment

Academic Positions

- Assistant Professor, Computer Science Department, Princess Sumaya University for Technology, Amman, Jordan
September 13, 2015 – now
- Assistant Professor, Computer Science Department, Dammam University, Dammam, KSA
September 20, 2012 – September 13, 2015
- Assistant Professor, Computer Science Department, Tabuk University, Tabuk, KSA
September 15, 2010 – September 20, 2012
- Research Associate, Cemagref, University of Blasé Pascal, France
February, 2010 – August, 2010
- Research Associate, Computer Science and Engineering, University of New South Wales, Sydney, Australia. Feb, 2009 – Feb, 2010

Administrative Positions

- Chair of Computer Science Department, King Hussein School of Computing Sciences, Princess Sumaya University for Technology, Amman, Jordan
September 17, 2017 - Now

5. Research Interests

- Data Mining and Machine learning
- Big Data (HDFS forensics)

6. Membership in Scientific Societies and Associations

- Member of the Australian Computer Society
- Member of the Jordan Computer Society
- Member of the Jordanian Open Source Association

7. Honors and Awards

8. Fellowships and Scholarships

- CMCRC full PhD scholarship for 4 years.

9. Teaching Experience

- *Graduate Courses*

Database Management Systems (Master level 11731)

Advanced Data Mining (Master level 11734)

Advanced Database Systems (PhD level 11941)

Knowledge Discovery and Data Mining (PhD level 11944)

- *Undergraduate Courses*

Data Mining / Special Topic in CS (11446)

Database systems (11323)

Database system 2 (11446)

Object Oriented Programming (11206)

Computer and Society (11449)

10. Supervision of Graduate Research

1. Raghda Hriaz. Devising Efficient Methods for Big Graph Mining, 2018
2. Mariam Khader. Efficient Clustering Techniques for Stream Big data, 2018
3. Mohammed Syaam. Evaluating NoSQL Systems under Hadoop, 2016
4. Esraa Al-Shamary. New Carving Technique for Hadoop File System, 2017
5. Nisreen Raeq. Multi Agents for Efficient Networks Data collection, 2017

11. Grants

Provide a detailed list containing the project name, year of grant, grantor organization, and grant amount

- Designing Transport Model for the city of Amman, 2018, Scientific Research Support Fund (SRF) Jordan, JD150000
- Pathway in Forensic Computing / FORC, 2017, ERUSMUS +, EUR 969552.00

12. Membership of Committees

- **National and International**
- Member of an international project “Pathway in Forensic Computing / FORC”
- **University**
 - Member of the Scientific committee department level
 - Member of the study plan committee
 - Member of the competency exams committee
 - Member of the PhD qualifying exam committee
 - Member of the graduation project committee
 - Member of the Social activities committee
 - Member of the library committee University level
 - Member of the department council
 - Member of the disciplinary committee /College level
 - Member of the Scientific and research committee

13. Professional and Scientific Meetings

Scientific Meetings Organized

Provide bulleted or numbered list with name of conference or symposium or workshop etc., place, and date

1. IEEE International Conference on New Trends in Computing Sciences (ICTCS), Jordan, Oct/2017.
2. Scientific Day, PSUT, Jordan, 2017
3. ERUSMUS +, University of Tempare in Finland

External Reviewer

1. IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE).
2. IEEE Transactions on Service Computing (TSC).
3. Data and Knowledge Engineering (DKE) - ELSEVIER.
4. Journal of Computing Science and Engineering (JCSE).
5. International Journal of Advancements in Computing Technology (IJACT).
6. International Journal of Information and Communication Technology (IJICT)

7. Journal of Computer Science (JCS)
8. Journal of Computing Science and Engineering (JCSE)
9. IEEE International Conference on Data Mining (ICDM) - 2008
10. International Conference on Knowledge Discovery and Data Mining (KDD) - 2007
11. The Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) 2008
12. International Conference on Service Oriented Computing (ICSOC) – 2009
13. International Conference on Conceptual Modeling (ER) – 2009
14. International Conference on Web Engineering (ICWE) – 2009
15. IEEE International Conference on Web Services (ICWS) – 2009

Participation in Scientific meetings

Provide bulleted or numbered list with name of conference or symposium or workshop etc., place, and date

Erasmus + exchange	Tempere, Finland	Lecturer and Research activities	Nov/2017
IEEE International Conference on New Trends in Computing Sciences (ICTCS)	Amman, Jordan.	Presenter	Oct/2017
IEEE International Conference on Information Technology and Applications	Sydney, Australia	Presenter	7/2016
ACS/IEEE International Conference on Computer Systems and Applications (AICCSA)	Fes, Morocco.	Presenter	May 2013
LISC Reading group at Cemagref,	Clermont-Ferrand, France.	Presenter	April, 2010
The Australasian Data Mining (AusDM)	Melbourne, Australia	Presenter	Dec, 2009
ACS/IEEE International Conference on Computer Systems and Applications (AICCSA),	Doha, Qatar	Presenter	Mar 31st-Apr 4th, 2008
Invited speaker at Zayed University IT Seminar, Invited by Prof. Emad Bataineh.	UAE	Presenter	July, 2007
ACM Symposium on Applied Computing (SAC).	Seoul, Korea.	Presenter	March 2007

14. Participation in or organization of curricular and/or extra-curricular activities

Provide bulleted or numbered list with name, place, date of event and other relevant details

1. Member of the FORC Erasmus + project to design two course in digital forensics. PSUT and four other universities.
2. Founder of the Master of Data Science Program, PSUT, Jordan.
3. Member of the study plan for the Master of Information Security and Digital Criminology program, PSUT, Jordan.
4. Member and coordinator for the study plan for the Master of Computer Science program, PSUT, Jordan.
5. Member of the study plan for the BS.c computer Science program, PSUT, Jordan.

15. Publications

Books

1. **Ghazi Al-Naymat**, Sequential and Time Series Data Mining. VDM Verlag Dr. Müller e.K., ISBN 978-3-639-25774-8, Pages. 264, 2010.

Journals

1. **Ghazi Al-Naymat**, Mouhammd Al-kasassbeh, Eshraq Al-Hawari. Using Machine Learning Methods for Detecting Network Anomalies within SNMP-MIB Dataset. International Journal of Wireless and Mobile Computing. Accepted March/2018.
2. Mariam Khader, Ali Hadi, **Ghazi Al-Naymat**. HDFS File Operation Fingerprints for Forensic Investigations. Digital Investigation. Vol 24C. Pages (50-61).
3. Mouhammd Al-Kasassbeh, **Ghazi Al-Naymat**, Eshraq Al-Hawari. Towards generating realistic snmp-mib dataset for network anomaly detection. International Journal of Computer Science and Information Security. Vol. 14 (9), 1162. 2016.
4. **Ghazi Al-Naymat**, M AlKasassbeh, N Abu-Samhadanh, S Sakr. Classification of Voip And Non-Voip Traffic Using Machine Learning Approaches. Journal of Theoretical and Applied Information Technology 92 (2), 403-41, 2016.
5. Mouhammd Alkasassbeh, **Ghazi Al-Naymat**, Ahmad B.A Hassanat and Mohammad Almseidin, "Detecting Distributed Denial of Service Attacks Using Data Mining Techniques" International Journal of Advanced Computer Science and Applications (IJACSA), Vol.7, No.1, 2016, Pages: 436-445.
6. Ahmed Y. Hamed and **Ghazi Al-Naymat**. A Genetic Algorithm For Constructing Broadcast Trees With Cost And Delay Constraints In Computer Networks. International Journal of Computer Networks & Communications (IJCNC) Vol.7, No.1, (2015), Pages: 35 –50.
7. **Ghazi Al-Naymat**. Mitigating the Influence of the Curse of Dimensionality on Time Series Similarity Measures. International Journal of Computer Applications in Technology (IJCAT), (2015). Volume 52, Issue 1, 94-105.
8. **Ghazi Al-Naymat**. Mining Pairs-Trading Patterns: A Framework. International Journal of Database Theory and Application (IJDTA), Vol.6, No.6 (2013). Pages: 19 –28.

9. Sherif Sakr and **Ghazi Al-Naymat**. Qureying RDF Database - An Overview. *Journal of Database Management (JDM)*, August 2013. (In press).
10. Mohammad A. Almahameed, Mohammed Aalsalem, Khaled Almi'ani and **Ghazi Al-Naymat**. Data Gathering with Tour Length-Constrained. *Global Journal of Computer Science and Technology Network, Web and Security*, Volume 13-E Issue11 (2013). Pages: 41–51
11. Sherif Sakr and **Ghazi Al-Naymat**. Efficient Relational Techniques for Processing Graph Queries. *Journal of Computer Science and Technology (JCST)*, 25(6) (2010). Pages: 1237 –1255.
12. Sherif Sakr and **Ghazi Al-Naymat**. Graph Indexing and Querying: A Review. *International Journal of Web Information Systems (IJWIS)*, Vol. 6 Iss: 2 (2010). Pages: 101–120.
13. Sherif Sakr and **Ghazi Al-Naymat**. Relational Processing of RDF Queries: A Survey. *ACM SIGMOD Record*, vol. 38, issue 4, (2009). Pages: 23–28.

Conferences

1. Marwah Alian, **Ghazi Al-Naymat** and Banda Ramadan. Using Transliteration with Entity Resolution for Arabic Datasets. 14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017. October 30th to November 3rd, 2017. Hammamet, Tunisia.
2. Esraa Alshammari, **Ghazi Al-Naymat**, Ali Hadi. A New Technique for File Carving on Hadoop Ecosystem. *IEEE International Conference on New Trends in Computing Sciences (ICTCS)*. 1-6, 2017, Amman, Jordan.
3. Mariam Biltawi, **Ghazi Al-Naymat**, Sara Tedmori. Arabic Sentiment Classification: A Hybrid Approach. *IEEE International Conference on New Trends in Computing Sciences (ICTCS)*. 104-108, 2017, Amman, Jordan.
4. Dima Suleiman, Malek Al-Zewairi, **Ghazi Al-Naymat**. An Empirical Evaluation of Intelligent Machine Learning Algorithms under Big Data Processing Systems. *The 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN)* September 18-20, 2017. *Procedia Computer Science* 113, 539-544. Lund, Sweden.
5. Wael Etaiwi, Mariam Biltawi, **Ghazi Al-Naymat**. Evaluation of classification algorithms for banking customer's behavior under Apache Spark Data Processing System. *The 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN)* September 18-20, 2017. *Procedia Computer Science* 113, 559-564. Lund, Sweden.
6. Wael Etaiwi, **Ghazi Al-Naymat**. The Impact of applying Different Preprocessing Steps on Review Spam Detection. *The 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN)* September 18-20, 2017. *Procedia Computer Science* 113, 273-279. Lund, Sweden.
7. Malik Al-Zewairi, **Ghazi Al-Naymat**. Spotting the Islamist Radical within: Religious Extremists Profiling in the United State. *The 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN)* September 18-20, 2017. *Procedia Computer Science* 113, 162-169. Lund, Sweden.
8. Dima Suleiman and **Ghazi Al-Naymat**: SMS Spam Detection using H2O Framework. *The 8th International Conference on Emerging Ubiquitous Systems*

- and Pervasive Networks (EUSPN) September 18-20, 2017. *Procedia Computer Science* 113, 154-161. Lund, Sweden.
9. **Ghazi Al-Naymat**, Mouhammd Al-Kasassbeh, Ahmad Hassanat, Ahmad Al-Tarawneh. Dynamics-Based Approach for Accurate User Identification and Authentication using Machine Learning Techniques. *IEEE International Conference on Information Technology and Applications*. 1-10, 1/7/2016, Sydney, Australia.
 10. Mohsin Iftikhar, Mohammed Imran, and **Ghazi Al-Naymat**: Performance Analysis of Mixed Polling Schemes with Multiple Classes of Self-Similar Traffic Input to Build Comprehensive SLAs. *The IEEE 38th Conference on Local Computer Networks Workshops (LCN Workshops)*, 2013. Pages: 994–1000.
 11. **Ghazi Al-Naymat**. GCG: Mining Maximal Complete Graph Patterns from Large Spatial Data. *Proceedings of the 10th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA)*, Fes, Morocco. May 27th-30th, 2013. Pages: 1–8.
 12. Sherif Sakr and **Ghazi Al-Naymat**. An Efficient Feature-Based Processing Technique for Supergraph Queries. *Proceeding of the 14th International Database Engineering and Application Symposium*, Montreal, QC, Canada. IDEAS 2010. Pages: 42–51.
 13. **Ghazi Al-Naymat**, Sanjay Chawla, and Javid Taheri. SparseDTW: A Novel Approach to Speed up Dynamic Time Warping. *The Australasian Data Mining (AusDM)*. vol. 101, Melbourne, Australia, ACM Digital Library, 2009. Pages: 117–127.
 14. **Ghazi Al-Naymat**. Enumeration of Maximal Clique for Mining Spatial Co-location Patterns. *Proceedings of the 6th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA)*, Doha, Qatar. Mar 31st- Apr 4th, 2008. Pages: 126–133.
 15. **Ghazi Al-Naymat**, Sanjay Chawla and Joachim Gudmundsson. Dimensionality Reduction for Long Duration and Complex Spatio-Temporal Queries. *The 2007 ACM Symposium on Applied Computing (SAC)*. Seoul, Korea. March 11-15, 2007. Pages: 393–397.
 16. Florian Verhein and **Ghazi Al-Naymat**. Fast Mining of Complex Spatial Co-location Patterns using GLIMIT. *The 2007 IEEE International Conference on Data Mining (ICDM)*. Omaha NE, USA. October 28-31, 2007. Pages: 679–684.

Book Chapters

1. Sherif Sakr and **Ghazi Al-Naymat** (2012). An Overview of Graph Indexing and Querying Techniques, a book chapter in: *Graph Data Management: Techniques and Applications*. Pages: 71–88. Hershey, PA: Information Science Reference.
2. Sherif Sakr and **Ghazi Al-Naymat** (2011). Relational Techniques for Storing and Querying RDF Data: An Overview, a book chapter in: *Advanced Database Query Systems: Techniques, Applications and Technologies*. Pages: 269–285. Hershey, PA: Information Science Reference.
3. Sherif Sakr and **Ghazi Al-Naymat** (2011). Querying Graph Databases: An Overview, a book chapter in: *Advanced Database Query Systems: Techniques, Applications and Technologies*. Pages: 304–322. IGI Global.

4. Sherif Sakr and **Ghazi Al-Naymat** (2010). Querying Business Processes on Multiple Layers, a book chapter in: Electronic Business Interoperability: Concepts, Opportunities, and Challenges, Ed (Ejub Kajan), IGI Global.
5. **Ghazi Al-Naymat** (2009). Data Mining and Discovery of Astronomical Knowledge, a book chapter in: Scientific Data Mining and Knowledge Discovery: Principles and Foundations, Ed (Gaber M. M.). Pages: 319–341, Springer-Verlag Berlin Heidelberg.

Technical Reports

1. Regis SaintPaul, Hung Vu, **Ghazi Al-Naymat**, and Boualem Benatallah. Spreadsheetbased complex data transformation. Technical report, UNSW-CSE-TR-0919. The University of New South Wales, Australia. November 2009.
2. **Ghazi Al-Naymat**, Sanjay Chawla and Joachim Gudmundsson. Dimensionality Reduction for Long Duration and Complex Spatio-Temporal Queries. TR 600. ISBN 1 86487 874 6. School of Information Technologies, The University of Sydney, Australia. October 2006.
3. **Ghazi Al-Naymat** and Sanjay Chawla. Data preparation for Mining Complex Patterns in Large Spatial Databases. TR 576. ISBN 1 86487 786 3. School of Information Technologies, The University of Sydney, Australia. November 2005.