

ZAKI MALIK

Department of Business Analytics
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A. Education

- **Doctor of Philosophy, Computer Science** - Virginia Tech, VA September 2008
Dissertation Title: *Reputation-based Trust Framework for Service Oriented Environments*
- **Master of Science, Computer Science** - Virginia Tech, VA September 2004
Dissertation Title: *Enforcing Trade Secrets in B2B Service Oriented Environments*
- **Bachelor of Science, Computer Science** - Wichita State University, KS May 2001

B. Work Experience

- **Associate Professor** - *Business Analytics*
Texas A & M University – Commerce, TX. August 2017 - Present
- **Assistant Professor** - *Information Security & Applied Computing*
Eastern Michigan University - Ypsilanti, MI. August 2016 - August 2017
- **Assistant Professor** - *Computer Science*
Wayne State University – Detroit, MI. August 2009 - July 2016
- **Post-doctoral Research Scientist** - *Computer Science*
Virginia Tech – Blacksburg, VA. January 2009 - August 2009
- **Graduate Research/Teaching Assistant** - *Computer Science*
Virginia Tech – Blacksburg, VA. January 2003 - December 2008
- **Software Test Engineer**
Corporate Clearing House Inc. (www.prosystemfx.com), Wichita, KS. September 2001 - May 2002
- **Software Engineer**
Xavor Corporation (www.xavor.com) January 2000 - May 2000

C. Publications

(current submissions not listed)

C.1 Books

1. Z. Malik and A. Bouguettaya. *Trust Management for Service-Oriented Environments*. Springer-Verlag, ISBN-10: 1441903097, ISBN-13: 978-1441903099, August 2009.

C.2 Book Chapters

1. A. Rezgui, and Z. Malik. An Analysis of Power Consumption in Mobile Cloud Computing, *Cloud Computing and Services Science, Lecture Notes on Communications in Computer and Information Science (LNCCIS)*, Eds. M. Helfert, V. Munoz, and D. Ferguson, v. 581, pg. 263 - 278, Springer, February 2016.

2. B. Medjahed, Z. Malik, and S. Benbernou. On the Composability of Semantic Web Services. *Web Services Foundations I*, Springer New York Publishers, Ed. A. Bouguettaya, M. Sheng and F. Daniel, ISBN 978-1-4614-7517-0, pg. 137-160, 2014.
3. K. Hashmi, A. Alhosban, S. Benbernou, B. Medjahed, Z. Malik. Automated Negotiation Among Web services. *Web Services Foundations II*, Springer New York Publishers, Ed. A. Bouguettaya, M. Sheng and F. Daniel, ISBN 978-1-4614-7534-7, pg. 451-482, 2014.
4. A. Bouguettaya, Z. Malik, X. Liu, A. Rezgui and L. Korff. WEBFINDIT: Providing Data and Service-Centric Access Through a Scalable Middleware. *Advanced Principles for Improving Database Design, Systems Modeling, and Software Development*, IGI-Global Publishers. Eds. K. Siau and J. Erickson, ISBN: 978-1-60566-172-8, November 2008.
5. A. Bouguettaya, Z. Malik, A. Rezgui and L. Korff. A Scalable Middleware for Web Databases. *Selected Readings on Database Technologies and Applications*, IGI-Global Publishers, Ed. T. Halpin, ISBN 978-1-60566-098-1, August 2008.
6. A. Rezgui, A. Bouguettaya, and Z. Malik, Using Reputation to Preserve Privacy on the Semantic Web. *Information Security Policies and Actions in Modern Integrated Systems*, Idea-group Publishers. Eds. C. Bellettini and M. G. Fugini, ISBN 1-59140-186-0 February 2004.

C.3 Journals

1. H. Aljafer, Z. Malik, K. Hashmi, and M. Rafique, Profit Maximization in Long-Term e-Service Agreements. *International Journal of Business Information Systems (IJBIS)*, to appear 2019.
2. Z. Malik, K. Hashmi, E. Najmi, and A. Rezgui, Wisdom Extraction in Knowledge-based Information Systems. *Journal of Knowledge Management (JKM)*, <https://doi.org/10.1108/JKM-05-2018-0288>, Vol. 23 Issue: 1, pp.23-45, January 2019.
3. R. P. Mohammadiani, S. Mohammadi, and Z. Malik, Understanding the Relationship Strengths in Users' Activities, Review Helpfulness and Influence. *Computers in Human Behavior (CHB)*, v. 75, pg. 117 – 129, ISSN 0747-5632, October 2017.
4. A. Bouguettaya, M. P. Singh, M. Huhns, Q. Z. Sheng, H. Dong, Q. Yu, A. G. Neiat, S. Mistry, B. Benatallah, B. Medjahed, M. Ouzzani, F. Casati, X. Liu, H. Wang, D. Georgakopoulos, L. Chen, S. Nepal, Z. Malik, A. Erradi, Y. Wang, B. Blake, S. Dustdar, F. Leymann, and M. Papazoglou. A Service Computing Manifesto: The Next Ten Years. *Communications of the ACM (CACM)*, v. 60 (4), April 2017.
5. T. Lucas, P. Strelan, J. Karremans, R. Sutton, E. Najmi, and Z. Malik. When does Priming Justice Promote Forgiveness? On the Importance of Distributive and Procedural Justice for Self and Others, *Journal of Positive Psychology (JPP)*, pg. 1-14, March, 2017.
6. K. Hashmi, Z. Malik, A. Erradi, and A. Rezgui. QoS Dependency Modeling for Composite Systems. *IEEE Transactions on Services Computing (TSC)*, no. 1, pp. 1, PrePrints, doi:10.1109/TSC.2016.2589244 2016.
7. K. Hashmi, Z. Malik, E. Najmi, and B. Medjahed. SNRNeg: A Social Network Enabled Negotiation Service. *Information Sciences (INS)*, Elsevier, v. 349 - 350, pg. 248 – 262, July 2016.
8. H. Meziane, S. Benbernou, M.-S. Hacid, Z. Malik, and M. Papazoglou. A View-Based Monitoring for Usage Control in Web Services, *Distributed and Parallel Databases (DAPD)*, Springer, v. 34, no. 2, pg. 145 – 178, June 2016.
9. K. Hashmi, A. Alhosban, Z. Malik, and B. Medjahed. A Web Service Negotiation Management and QoS Dependency Modeling Framework, *ACM Transactions on Management Information Systems (TMIS)*, v. 7, no. 2, Article 5, 33 pages, May 2016.

10. A. Rezgui, N. Davis, Z. Malik, B. Medjahed, and H. Soliman. CloudFinder: A System for Processing Big Data Workloads on Volunteered Federated Clouds. *IEEE Transactions on Big Data (TBD)*, accepted May 2016.
11. N. Ammar, Z. Malik, E. Bertino, and A. Rezgui. XACML Policy Evaluation with Dynamic Context Handling, *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, v. 27, no. 9, pg. 2575 - 2588, September 2015.
12. I. Amor, S. Benbernou, M. Ouziri, Z. Malik, and B. Medjahed. Discovering Best Teams For Data Leak Aware Crowd-sourcing in Social Networks, *ACM Transactions on the Web (TWeb)*, v. 10, no. 1, Article 2, pg. 1- 27, February 2016.
13. Z. Malik, B. Medjahed, and A. Rezgui. sCARE: Reputation Estimation for Uncertain Web Services, *ACM Transactions on Internet Technology (TOIT)*, v. 16, no. 1, Article 7, pg. 1-20, February 2016.
14. H. Yahyaoui, H. Own, and Z. Malik. Modeling and Classification of Service Behaviors. *Expert Systems With Applications (ESWA)*, Elsevier, v. 42, pg. 7610-7619, June 2015.
15. F. Khazalah, Z. Malik, A. Rezgui. Resolving Conflicts Efficiently in CDSS using Community Feedbacks. *Information Sciences (INS)*, Elsevier, v. 298, pg. 407-424, ISSN 0020-0255, March 2015.
16. A. Alhosban, K. Hashmi, Z. Malik, B. Medjahed, and S. Benbernou. Bottom-up Fault Management in Service-based Systems, *ACM Transactions on Internet Technology (TOIT)*, 15(2), 40 pages, June 2015.
17. E. Najmi, K. Hashmi, Z. Malik, A. Rezgui, and H. Khan. CAPRA: A Comprehensive Approach to Product Ranking Using Customer Reviews. *Computing Journal (Computing)*, Springer, pg. 1-25, ISSN 0010-485X, February 2015.
18. H. Aljafer, Z. Malik, M. Alodib, and A. Rezgui. A Brief Overview and an Experimental Evaluation of Data Confidentiality Measures on the Cloud. *Journal of Innovation in Digital Ecosystems (JIDE)*, Elsevier, 1(1-2), pg. 1-11, ISSN 2352-6645, December 2014.
19. A. Alhosban, K. Hashmi, Z. Malik, and B. Medjahed. MASC: Matching Alternative Services in the Cloud, *International Journal of Electronic Business Management (IJEEM)*, 11(3), pg. 157-167, September 2013.
20. A. Alhosban, K. Hashmi, Z. Malik, and B. Medjahed. S2R: A Semantic Web service Similarity and Ranking Approach, *International Journal of Next-Generation Computing (IJNGC)*, 3(2), July 2012.
21. X. Liu, A. Bouguettaya, Q. Yu, and Z. Malik. Efficient Change Management in Long-term Composed Services. *Service Oriented Computing and Applications Journal (SOCA)*, 5(2), pg. 87-103, June 2011.
22. S. Nepal, Z. Malik, and A. Bouguettaya. Reputation Management for Composite Services in Service-Oriented Systems. *International Journal of Web Services Research (IJWSR)*, 8(2), pg. 29-52, April-June 2011.
23. A. Bouguettaya, Q. Yu, X. Liu, and Z. Malik. Service-centric Framework for a Digital Government Application. *IEEE Transactions on Services Computing (TSC)*, January 2011.
24. Z. Malik, A. Rezgui, B. Medjahed, M. Ouzzani, and A. K. Sinha. Semantic Integration in Geosciences. *International Journal of Semantic Computing (IJSC)*, 4(3), pg. 1-30, September-December 2010.
25. A. K. Sinha, Z. Malik, A. Rezgui, C. Barnes, K. Lin, G. Heiken, W. Thomas, L. Gundersen, R. Raskin, I. Jackson, P. Fox, D. McGuinness, D. Seber, and H. Zimmerman. Geoinformatics: Transforming Data to Knowledge for Geosciences. *GSA Today*, 20(12), pg. 4-10, December 2010.
26. Z. Malik, and A. Bouguettaya. RATEWeb: Reputation Assessment for Trust Establishment among Web Services. *Very-Large Databases Journal (VLDBJ)*, 18(4), pg. 885-911, August 2009.
27. Z. Malik, and A. Bouguettaya. Rater Credibility Assessment in Web Services Interactions. *World Wide Web Journal (WWWJ)*, 12(1), March 2009.

28. Z. Malik, and A. Bouguettaya. Reputation Bootstrapping for Trust Establishment among Web Services. *IEEE Internet Computing (IC)*, 13(1), pg. 40-47, January/February 2009.
29. A. Bouguettaya, Z. Malik, A. Rezgui and L. Korff. A Scalable Middleware for Web Databases. *Journal of Database Management (JDM)*, 17(4), pg. 20-47, October-December 2006.
30. Z. Malik and A. Bouguettaya. Preserving Trade Secrets between Competitors in B2B Interactions. *Journal of Cooperative Information Systems (JCIS)*. ISSN 0218-8430 World Scientific Publishers, 14(2-3): 265-297, June/September 2005.

C.4 Conferences

1. R. P. Mohammadiani, and Z. Malik. The Effects of Interactivity of Electronic Word of Mouth Systems on Value Creation Practices on Social Media. *American Marketing Association (AMA) Winter Academic Conference*, Austin, TX. USA, February 2019.
2. B. Randolph-Seng, Y. Atinc, S. Bui, and Z. Malik. Big data and the disillusioned employee: The ethical internet of things. *Academy of Management Specialized Conference: Big Data and Managing in a Digital Economy (AOM - Big Data)*, Guildford, England, April 2018.
3. M. F. Akbar, E. U. Munir, M. M. Rafique, Z. Malik, S. U. Khan, and L. T. Yang. List-Based Task Scheduling for Cloud Computing, *12th IEEE International Conference on Green Computing and Communications (GreenCom)*, Chengdu, China, December 2016.
4. H. Labbaci, B. Medjahed, Y. Aklouf, and Z. Malik. Follow the Leader: A Social Network Approach for Service Communities. *14th International Conference on Service-Oriented Computing (ICSOC 2016)*, Alberta, Canada, October 2016.
5. N. Ammar, Z. Malik, A. Rezgui, and E. Bertino, XACML policy evaluation with dynamic context handling, *IEEE 32nd International Conference on Data Engineering (ICDE 2016)*, Helsinki, Finland, May 20, 2016.
6. E. Najmi, Z. Malik, K. Hashmi, and A. Rezgui, ConceptRDF: An RDF presentation of ConceptNet knowledge base, *IEEE 7th International Conference on Information and Communication Systems (ICICS)*, Irbid, Jordan, April 5 – 7, 2016. **(Best Paper Award)** .
7. K. Hashmi, H. AlJafar, Z. Malik, and A. Alhosban, A bat algorithm based approach of QoS optimization for long term business pattern, *IEEE 7th International Conference on Information and Communication Systems (ICICS)*, Irbid, Jordan, April 5 – 7, 2016.
8. A. Rezgui, N. Davis, Z. Malik, B. Medjahed, and H. Soliman. CloudFinder: A System for Processing Big Data Workloads on GENI Resources, *Poster, GENI Network Innovators Community Event (GENI NICE), Workshop held in conjunction with the 23th IEEE International Conference on Network Protocols (ICNP)*, San Francisco, CA, November 10, 2015.
9. M. Alodib, and Z. Malik. A Big Data Approach to Enhance the Integration of Access Control Policies for Web Services. *IEEE/ACIS International Conference on Computer and Information Science (ICIS 2015)*, Las Vegas, USA. June 28 - July 1, 2015.
10. N. Ammar, Z. Malik, B. Medjahed, and M. Alodib. K-Anonymity Based Approach For Privacy-Preserving Web Service Selection. *IEEE International Conference on Web Services (ICWS 2015)*, New York, USA. June 27 - July 2, 2015. **(Best Paper Award)** .
11. A. Rezgui, and Z. Malik. Evaluation of Linux I/O Schedulers for Big Data Workloads. *5th International Conference on Cloud Computing and Services Science (CLOSER 2015)*, Lisbon, Portugal, May 20-22, 2015.
12. A. Alhosban, K. Hashmi, Z. Malik, and B. Medjahed. Integrating Fault-Tolerance Method into Service-Oriented Computing. *9th. International IEEE Symposium on Service-Oriented System Engineering (SOSE 2015)*, San Francisco, CA., March 30 - April 3, 2015.

13. A. Rezgui, M. White, S. Rezgui, and Z. Malik. Evaluation of Linux I/O Schedulers for Big Data Workloads. *4th IEEE International Conference on Big Data and Cloud Computing (BDCloud 2014)*, Sydney, Australia, December 3-5, 2014.
14. K. Hashmi, E. Najmi, Z. Malik, N. Ammar, and B. Medjahed. Sentiment Analysis for Intelligent Ratings Management, *11th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2014)*, Doha, Qatar, November 10-13, 2014.
15. E. Najmi, K. Hashmi, Z. Malik, A. Rezgui, and H. Khan. ConceptOnto: An upper ontology based on Conceptnet, *11th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2014)*, Doha, Qatar, November 10-13, 2014.
16. F. Khazalah, Z. Malik, and A. Rezgui. Automatic mapping rules and OWL ontology extraction for the OBDA Ontop. *10th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2014)*, Miami, Florida, USA, October 22-25, 2014.
17. H. Aljafer, Z. Malik, A. Alodib, and A. Rezgui. An Experimental Evaluation of Data Confidentiality Measures on the Cloud, *International Conference on Management of computational and collective Intelligence in Digital Ecosystems (MEDES 2014)*, Buraydah, Saudi Arabia, September 15 - 17, 2014.
18. A. Alhosban, M. Alhusban, K. Hashmi, Z. Malik, A. Rezgui. FT-SOA: A Failure-prediction Technique in Service-Oriented System, *IEEE 22nd International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS 2014)*, Paris, France, September 9 - 11, 2014.
19. N. Ammar, Z. Malik, E. Bertino, and A. Rezgui. Dynamic Privacy Policy Management in Services-based Interactions, *25th International Conference on Database and Expert Systems Applications (DEXA 2014)*, Munich, Germany, September 1 - 5, 2014.
20. H. Khan, S. Ahmad, H. Artail, Z. Malik, and M. Niazi. Information Technology Adoption, Possible Challenges, and Framework of Supply Chain Management: A Case Study of a Leading Gulf Economy, *IEEE International Conference on Engineering Technology & Technopreneurship (ICE2T)*, Kuala Lumpur, Malaysia August 27 – 29, 2014. (**Best Paper Award**) .
21. N. Ammar, Z. Malik, A. Rezgui, and A. Alodib. MobiDyC: Private Mobile-Based Health Data Sharing Through Dynamic Context Handling, *11th International Conference on Mobile Systems and Pervasive Computing (MobiSPC-2014)*, Niagara Falls, Ontario, Canada, August 18-21, 2014.
22. A. Rezgui, G. Quezada, M. M. Rafique and Z. Malik. A Capacity Allocation Approach for Volunteer Cloud Federations Using Poisson-Gamma Gibbs Sampling, *7th IEEE International Conference on Cloud Computing (CLOUD 2014)*, Anchorage, Alaska, June 27 - July 2, 2014 (Acceptance rate: 20%).
23. K. Hashmi, E. Najmi, Z. Malik, A. Alhosban, A. Rezgui, and B. Medjahed. Automated Negotiation Using Semantic Rules, *IEEE International Conference on Services Computing (SCC 2014)*, Anchorage, Alaska, June 27 - July 2, 2014.
24. K. Hashmi, E. Najmi, Z. Malik, and A. Rezgui. A Framework for Automated Service Negotiation, *IEEE International Conference on Service Oriented Computing and Applications (SOCA 2013)*, Kauai, Hawaii, December 16-18, 2013.
25. E. Najmi, K. Hashmi, F. Khazalah, and Z. Malik. Intelligent Semantic Question Answering System, *IEEE International Conference on Cybernetics (CYBCONF 2013)*, Lausanne Switzerland, June 13-15, 2013.
26. F. Khazalah, I. Ababneh, and Z. Malik. Forwarding Group Maintenance of ODMRP for MANETs, *International Conference on Ambient Systems, Networks and Technologies (ANT 2013)*, Halifax, Nova Scotia, Canada, June 25-28, 2013.
27. K. Hashmi, A. Alhosban, E. Najmi, and Z. Malik. Dependency Modeling in Automated Web Services Quality Component Negotiations, *IEEE International Conference on Cybernetics (CYBCONF 2013)*, Lausanne Switzerland, June 13-15, 2013.
28. A. Rezgui, Z. Malik, J. Xia, K. Liu, and C. Yang. Data Intensive Spatial Indexing on the Cloud, *International Conference on Computational Science (ICCS-2013)*, pg. 2615-2618, Barcelona, Spain, June 5-7, 2013.
29. A. Alhosban, K. Hashmi, Z. Malik, and B. Medjahed. Self-healing Framework for Cloud-based Services, *IEEE International Conference on Computer Systems and Applications (AICCSA 2013)*, Fes, Morocco, May 27-30, 2013.
30. K. Hashmi, A. Alhosban, A. Rezgui, E. Najmi, and Z. Malik. Automated Web Service Quality Component Negotiation using NSGA-2. *IEEE International Conference on Computer Systems and Applications (AICCSA 2013)*, Fes, Morocco, May 27-30, 2013.

31. A. Rezgui, Z. Malik, and C. Yang. High-Resolution Spatial Interpolation on Cloud Platforms, *ACM Symposium on Applied Computing-Cloud Computing Track (SAC-2013)*, pg. 377-382, Coimbra, Portugal, March 18-22, 2013.
32. A. Alhosban, I. Ababneh, Z. Malik. GFDA: Route Discovery Algorithms for On-demand Mobile Ad Hoc Routing Protocols, *Procedia Computer Science Volume 10, ANT 2012 and MobiWIS 2012*, pg. 70-77, Niagara Falls, Canada, August 27-29, 2012.
33. F. Khazalah, Z. Malik, B. Medjahed. Automatic Conflict Resolution in a CDSS. *International Conference on Scientific and Statistical Database Management (SSDBM 2012)*, Chania, Crete, Greece, June 25-27, 2012.
34. S.-E. Tbahriti, B. Medjahed, Z. Malik, C. Ghedira, and M. Mrissa. How to Preserve Privacy in Services Interaction, *IEEE International Symposium on Frontiers of Information Systems and Network Applications (FINA-2012)*, in conjunction with the 26th IEEE International Conference on Advanced Information Networking and Applications (AINA-2012), Fukuoka, Japan, March 26-29, 2012.
35. S.-E. Tbahriti, B. Medjahed, Z. Malik, C. Ghedira, and M. Mrissa. Meerkat - A Dynamic Privacy Framework for Web Services, *IEEE/WIC/ACM International Conference on Web Intelligence (WI-2011)*, Lyon, France, August 22-27, 2011.
36. K. Hashmi, A. Alhosban, Z. Malik, and B. Medjahed. A Genetic Algorithm-based Approach for Service Negotiation, *International Conference on Web Services (ICWS)*, Washington, DC, USA, July 4-9, 2011.
37. A. Alhosban, K. Hashmi, Z. Malik, and B. Medjahed. Assessing Fault Occurrence Likelihood for Service-Oriented Systems, *11th International Conference on Web Engineering (ICWE 2011)*, Paphos, Greece, June 20-24, 2011.
38. B. Medjahed, and Z. Malik. Bottom-Up Fault Management in Composite Web Services, *23rd International Conference on Advanced Information Systems Engineering (CAiSE'11)*, London, UK, June 20-24, 2011.
39. Z. Malik, and B. Medjahed. Trust Assessment for Web Services under Uncertainty, *8th International Conference on Service-Oriented Computing (ICSOC)*, San Francisco, CA, USA, December 7-10, 2010.
40. Z. Malik, and B. Medjahed. Maintaining Trustworthiness of Service Compositions, *ACM International Conference on Frontiers of Information Technology (FiT)*, Islamabad, Pakistan, December 2010.
41. Z. Malik, and I. Akbar, and A. Bouguettaya. Web Services Reputation Assessment Using a Hidden Markov Model, *7th International Joint Conference on Service-Oriented Computing (ICSOC-ServiceWave)*, Stockholm, Sweden, November 24-27, 2009.
42. S. Nepal, Z. Malik, and A. Bouguettaya. Reputation Propagation in Composite Services, *International Conference on Web Services (ICWS)*, Los Angeles, CA, USA, July 2009.
43. A. K. Sinha, Z. Malik and A. Rezgui. Semantics-based Interoperability Framework for the Geosciences, *American Geophysical Union Fall Meeting*, San Francisco, CA, USA, December 2008.
44. A. Rezgui, Z. Malik, and A. K. Sinha. Semantics-Enabled Registration and Integration Engines (DIA and SEDRE) for the Earth Sciences, *International Geoinformatics Conference*, Potsdam, Germany, June 2008.
45. Z. Malik and A. Bouguettaya. Evaluating Rater Credibility for Reputation Assessment of Web Services. *8th International Conference on Web Information Systems Engineering (WISE 2007)*, 14(2-3), Nancy, France, December 2007.
46. Z. Malik, A. Rezgui and A. K. Sinha. Semantically-Enabled E-Geoscience for Knowledge Discovery, *Geologic Society of America Annual Meeting*, Denver, CO, USA, October 2007.
47. A. K. Sinha, A. Rezgui and Z. Malik. Geoinformatics in the 21st. Century: Identifying Priority Technologies to Meet Societal Challenges, *Geologic Society of America Annual Meeting*, Denver, CO, USA, October 2007.
48. A. Bouguettaya, D. Gracanic, Q. Yu, X. Zhang, X. Liu, Z. Malik, and A. Rezgui. WebSenior: A Digital Government Infrastructure for Senior Citizens, *International Workshop on the Management of Business Processes in Government, co-located with 5th International Conference on Business Process Management (BPM 2007)*, Brisbane, Australia, September 2007.
49. Z. Malik, A. Rezgui, A. K. Sinha, K. Lin, and A. Bouguettaya. DIA: A Web Services-based Infrastructure for Semantic Integration in Geoinformatics, *International Conference on Web Services (ICWS)*, Salt Lake City, UT, USA, July 2007.
50. M. Khan and Z. Malik. An MDA-based Approach for Specifying Semantic Portals, *International Conference on Web Services (ICWS)*, Work in Progress Track, Salt Lake City, UT, USA, July 2007.

51. Z. Malik, A. Rezgui and A. K. Sinha. Ontologic Integration of Geoscience Data on the Semantic Web, *International Geoinformatics Conference*, San Diego, CA, USA, May 2007.
52. A. Rezgui, Z. Malik, and A. K. Sinha. DIA Engine: Discovery, Integration and Analysis of Earth Science Data, *International Geoinformatics Conference*, San Diego, CA, USA, May 2007.
53. A. K. Sinha, Z. Malik, A. Rezgui and A. Dalton. Discovery, Integration and Analysis Engine for Earth Science Data, *American GeoPhysical Union Fall Meeting*, San Francisco, CA, USA, December 2006.
54. A. Bouguettaya, D. Gracanin, Q. Yu, X. Zhang, X. Liu and Z. Malik. Ubiquitous Web Services for E-Government Social Services, *AAAI Spring Symposium The Semantic Web meets eGovernment*, Stanford University, CA, USA, March 27-29, 2006.
55. A. Rezgui, A. Bouguettaya, and Z. Malik. A Reputation-based Approach to Preserving Privacy in Web Services, *4th VLDB Workshop on Technologies for E-Services (TES'03)*, Berlin, Germany, September 2003.

D. Doctoral Student Advisor

Graduated Students

- Amal Alhosban, *Ph.D.*
 - Graduation Date: Summer 2013.
 - Project: Fault management for service-oriented systems.
 - First Job: Assistant Professor, University of Michigan – Flint, USA.
- Fayez Khazalah, *Ph.D.*
 - Graduation Date: Summer 2015.
 - Project: Semantic data integration in online systems
 - First Job: Assistant Professor, Al-Albayt University, Jordan.
- Nariman Ammar, *Ph.D.*
 - Graduation Date: Fall 2015.
 - Project: Privacy management for service-oriented systems.
 - First Job: Assistant Professor, Birzeit University, West Bank, Palestine.
- Khayyam Hashmi, *Ph.D.*
 - Graduation Date: Winter 2016.
 - Project: Negotiation management in service-oriented systems.
 - First Job: Lecturer, Wayne State University, USA.
- Erfan Najmi, *Ph.D.*
 - Graduation Date: Fall 2016.
 - Project: Improving user experience in information retrieval using semantic web and other technologies.
 - First Job: Software Development Engineer, Microsoft, USA.

Current Students

- Hussain Aljafer
 - Project: Cost optimization in dynamic service-oriented systems.

E. University Teaching

- **Texas A & M University - Commerce - Department of Business Analytics**

- Undergraduate Level

- *Data and Information Management* (BUSA 326) - Fall 2017
- *Introduction to Information Systems* (BUSA 497) - Fall 2018
- *Cyber Security and IT Auditing* (BUSA 497) - Spring 2019

- Graduate Level

- *Introduction to Business Analytics* (BUSA 501) - Fall 2017
- *Business Analytics Programming* (BUSA 523) - Fall 2017
- *Database Management* (BUSA 526) - Spring 2018
- *Cyber Security and IT Auditing* (BUSA 533) - Spring 2018, 2019
- *Advanced Analytics - with R* (BUSA 537) - Spring 2018, 2019

- **Eastern Michigan University - School of Information Security & Applied Computing**

- Undergraduate Level

- *Risk and Vulnerability Analysis* (IA 202) - Fall 2016, Winter 2017
- *Network Connectivity* (IA 350) - Fall 2016
- *SQL Database Security* (IA 480) - Winter 2017

- Graduate Level

- *Enterprise Security* (IA 642) - Winter 2017

- **Wayne State University - Department of Computer Science**

- Undergraduate Level

- *Introduction to C++ Programming* (CSC 2000) - Winter 2014, 2015, 2016.
- *Operating Systems Concepts* (CSC 4420) - Fall 2013, 2014, 2015.
- *Information Systems* (CSC 4710) - Winter 2012, 2013, 2014, 2015, 2016.

- Graduate Level

- *Web Services: Technology and Research* (CSC 5991)
- Fall 2009, Winter 2010, 2011, 2012, 2013.
- *Semantic Web and Services* (CSC 7991) - Fall 2011, 2012.
- *Advanced Web Services* (CSC 7991) - Fall 2010.

- **Virginia Tech - Department of Computer Science**

- Undergraduate Level

- *Introduction to Programming in C++* (CS 1044) - Spring 2009.
- *Introduction to Database Systems* (CS 4604) - Fall 2008.

F. Honors and Awards

- Best Paper Award. IEEE *ICICS* (2016), IEEE *ICWS* (2015), *ICE2T* (2014).
- Selected among the Best Papers. *WISE* Conference (2007).

G. Research Funding

- Completed

- Qatar Foundation,
"Economic Models for QoS Optimization of Composite Cloud Services",
January 2014 - June 2016 Total: \$899,990, WSU: \$150,738
Role: PI, Co-PI: A. Erradi - Qatar University
✓ Acceptance Rate: 15%
- Center for Advanced Obstetrical Care and Research, Hutzel Women's Hospital,
"Make your Date – Pregnancy Monitoring"
May 2015- May 2016 Total: \$11,600, WSU: \$11,600
Role: PI
- State of Michigan (Dept. of Environmental Engineering),
"Great Lakes Large Aquatic Ecosystem Data Exchange",
September 2012-June 2013 Total: \$23,360, WSU: \$23,360
Role: Co-PI, PI: Shawn McElmurry - CEE.
- WSU-University Research Grants Program,
"Web Services Selection, Composition and Maintenance Framework",
2012 - 2013 Total: \$10,000
Role: PI