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Department of Computer Science
College of Computer Science and Information Systems
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PERSONAL STATEMENT:

Dr. Mohammed Hamdi's research is mainly in the area of databases, query optimization, data mining, big data and security.

EDUCATION AND QUALIFICATION :

- Doctor of Philosophy (Ph.D.) in Computer Science, Southern Illinois University- Carbondale, IL, USA (2018)
- Master of Science in Computer Science, Southern Illinois University- Carbondale, IL, USA (2013)
- Bachelor in Computer Science, Jazan University, Jazan, Saudi Arabia (2009)

WORK EXPERIENCES :

- Assistant Professor, Department of Computer Science, College of Computer Science and Information Systems, Najran University, Najran, Saudi Arabia, 2018 – Present
- Lecture, Department of Computer Science, College of Computer Science and Information Systems, Najran University, Najran, Saudi Arabia, 2015 – 2018
- Teaching Assistant, Department of Computer Science, College of Computer Science and Information Systems, Najran University, Najran, Saudi Arabia, 2009 – 2015

TAUGHT COURSES:

- Southern Illinois University-Carbondale, IL, USA
 - Database Systems, Department of Computer Science, 2015
- Najran University, Saudi Arabia
 - Computer Security (429CSS-3), First Semester 2018-2019
 - Computer Security (429CSS-3), Second Semester 2018-2019
 - Information System Security Administration (460CIS-3), Second Semester 2018-2019
 - Coordinator of:
 - Fundamental of Databases (341CSS-3), Department of Computer Science
 - Fundamentals of Databases (230CIS-3), Department of Information Systems
 - Database Management Systems (335CIS-3), Department of Information Systems
 - Advance Database Systems (442CSS-3), Department of Computer Science

PROFESSIONAL SKILLS:

- Programming Languages: Java, SQL Server, MySQL, Oracle, R Programming Language
- Operating Systems: Windows and Linux operating systems.

PUBLICATIONS:

1. Weidong Xiong, Feng Yu, Mohammed Hamdi and Wen-Chi Hou. A Prudent Precedence Concurrency Control Protocol for High Data Contention Database Environments. International Journal of Database Management Systems (IJDBMS), Vol.8, No.5, 2016.
2. F. Yu, E. S. Jones, W. Xiong, Mohammed Hamdi, W.-C. Hou, "An Asynchronous Method for Write Optimization of Column-Store Databases in Map-Reduce ", International Journal of Big Data (IJBD), 2(4), pp. 1-9, 2015.

CONFERENCES:

1. Mohammed Hamdi, Feng Yu, Sarah Alswedani, and Wen-Chi Hou. An Efficient Data Structure for Fast Join Query Processing. IEEE Conf. Future Technologies Conference (FTC 2017). November 2017. Vancouver, BC, Canada. pp. 483 – 492.
2. Mohammed Hamdi, Feng Yu, Sarah Alswedani, and Wen-Chi Hou. Storing Join Relationships for Fast Join Query Processing. 28th International Conference on Database and Expert Systems Applications (DEXA 2017). Lyon, France, August 2017, pp. 167 – 177.
3. Mohammed Hamdi, Feng Yu, and Wen-Chi Hou. Fast Processing of Join Queries with Instant Response. IEEE Conf. SAI Computing Conference (SAI 2017). July 2017. London, UK, pp. 352 - 362.
4. Feng Yu, Tyler Maticic, Weidong Xiong, Mohammed Hamdi, and Wen-Chi Hou. Data Cleaning in Out-of-Core Column-Store Databases: An Index-Based Approach. Proceedings of the International Conference on Information and Knowledge Engineering (IKE), 2016, pp. 16-22.
5. Mohammed Hamdi, Weidong Xiong, Feng Yu and Wen-Chi Hou. A Prudent Precedence Concurrency Control Protocol for High Data Contention Main Memory Databases. Proceeding of the International Conference on Information and Knowledge Engineering (IKE), 2016, pp. 3-9.

HONORS/AWARDS:

- Dean's List (2005- 2008), Jazan University