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**Mohammad Anwar Hossain**  
(Ph.D., University of Ottawa, Canada)  
Senior Member IEEE & ACM

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Google scholar: <https://scholar.google.com/citations?user=Qq4AAT4AAAAJ&hl=en>

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## Education

- 2005 – 2010      Ph.D. in Electrical and Computer Engineering  
(In Computer and Software Engineering Track)  
School of Information Technology and Engineering, University of Ottawa, Canada  
Thesis: **Support for Quality of Context Aware Interaction in Pervasive Environments**  
(nominated for the best thesis award)
- 2003 –2005      M.C.S in Computer Science  
School of Information Technology and Engineering, University of Ottawa, Canada  
Thesis: **LORNAV:A Web-based Tool for Personalized 3D Navigation of Distributed Learning Object Repositories**
- 1991 – 1995      B.Sc. Engg. in Computer Science and Engineering  
Discipline of Computer Science and Engineering, Khulna University, Bangladesh  
Project: **An Approach to Logic Synthesis and Minimization**

## Positions Held

- 12/2017 – present      Vice-chair, Software Engineering Dept, King Saud University, KSA  
09/2014 – present      Associate Professor, Software Engineering Dept, King Saud University, KSA  
06/2010 – 09/2014      Assistant Professor, Software Engineering Dept, King Saud University, KSA  
11/2010 – 07/2011      Technical consultant, ICT Incubator, Riyadh Techno Valley (RTV), KSU  
05/2003 – 06/2010      Research Associate/Web Engineer, MCRLab, University of Ottawa, Canada  
09/2003 – 04/2009      Teaching Assistant and Lab Instructor, SITE, University of Ottawa, Canada  
10/2001 – 08/2002      Software Developer and Consultant, Quality Canada Digital, Toronto, Canada  
05/2000 – 10/2001      Web Application Developer, NTG Clarity Networks, Markham, Canada  
12/1999 – 05/2000      Programmer, DaimlerChrysler Canada, Brampton, Canada  
10/1996 – 05/1999      Programmer, Ministry of Defense, Kuwait  
07/1995 – 10/1996      Worked as Programmer in BRAC

## Honors and Awards

- 2017      Best paper awarded by CCIS, King Saud University for master Student's work on "Perspective of health data interoperability on cloud-based Medical Cyber-Physical Systems".
- 2015      Best poster award for master student's work on "Privacy Engineering of Smart City Services", King Saud University, KSA
- 2012-2014      Nominated for the best undergraduate capstone project in the College of Computer and Information Sciences, KSU
- 2011      IBM Faculty Award, Riyadh, KSA
- 2010      Nominated for the best Ph.D. thesis, School of Information Technology and Engineering (SITE), University of Ottawa
- 2005 – 2009      University of Ottawa Excellence Scholarship, Canada
- 2006 – 2009      University of Ottawa Travel Grants (total four)

2008	I2MTC 2008 travel grant for the paper “Learning Multi-Sensor Confidence using Difference of Opinions”
2006 – 2007	Ontario Graduate Scholarship (OGS), Canada
1991– 1995	Board scholarship for securing 3 <sup>rd</sup> position in H.S.C
1991 – 1995	Khulna University Merit Scholarship, Bangladesh

## Professional Membership

- Senior Member IEEE
- Senior Member ACM
- Member, IEEE Instrumentation and Measurement Society
- Member, IEEE Engineering in Medicine and Biology Society
- Member, IEEE Cloud Computing Community
- Member, IEEE Internet of Things Community
- Member, IEEE Smart Cities Community
- Member, ACM SIGMM

## Certification

- Software Architecture for the Internet of Things by EIT Digital on Coursera, Cert. date: Nov. 2017, URL: <https://www.coursera.org/account/accomplishments/verify/X9GW5JH924MJ>
- Security Intelligence Analyst-Mastery Award for Educators 2016 by IBM, Cert. date: Apr. 2017, URL: [https://www.youracclaim.com/badges/4cb25571-5779-45b1-a2cd-30674e1671c0/linked\\_in\\_profile](https://www.youracclaim.com/badges/4cb25571-5779-45b1-a2cd-30674e1671c0/linked_in_profile)
- Mobile Application Developer - Mastery Award for Educators 2016, certificate date: Feb. 2017, URL: [https://www.youracclaim.com/badges/5b60ccb7-ad72-40c8-8ec0-569582a8dcac/linked\\_in\\_profile](https://www.youracclaim.com/badges/5b60ccb7-ad72-40c8-8ec0-569582a8dcac/linked_in_profile)

## Scholarly and Professional Activities

### 1) Editorial Board

2016	Lead Guest Editor, Springer Multimedia Systems Journal, Special Issue on Multimedia Cloud Computing for Smart Cities
2015	Lead Guest Editor, International Journal of Distributed Sensor Networks, Special Issue on Sensor-Web Applications, Systems and Services
2014-15	Guest Editor, Springer Multimedia Tools and Applications Journal, Special Issue on Ambient Multimedia and Sensory Environment
2012-13	Guest Editor, Springer Multimedia Tools and Applications Journal, Special Issue on Advances in Automated Multimedia Surveillance for Public Safety.

### 2) Conference Organization

2017	General Co-chair, IEEE ISM Workshop on Emerging Multimedia Applications and Services for Smart Cities (EMASC-2017), Dec. 11-13, 2017, Taiwan
2016	General Co-chair, IEEE IEEE ISM Workshop on Cyber-physical Multimedia Systems for Smarter Healthcare (CPMMS), Dec. 11-13, 2016, San Jose, California, USA
2016-17	Board Member, 2 <sup>nd</sup> and 3 <sup>rd</sup> International Conference on Human Aspects of IT for the Aged Population, Canada.
2016	General Co-chair, IEEE ICME Workshop on Multimedia Mobile Cloud for Smart City Applications (MMCloudCity-2016), July 15, 2016, Seattle, USA

- 2015 General Co-chair, IEEE International Symposium on Multimedia Workshop on Cloud-based Multimedia Applications and Services for Smart Cities, December 12-14, 2015, Miami, Florida, USA
- 2014 General Co-chair, 1<sup>st</sup> ACM Multimedia Workshop on Emerging Multimedia Applications and Services for Smart Cities, Nov. 7, 2014, Orlando, Florida, USA
- 2014 General Co-chair, 2<sup>nd</sup> IEEE ICME Workshop on Ambient Multimedia and Sensory Environment (AMUSE 2014), July 2014, Chengdu, China
- 2013 General Co-chair, 3<sup>rd</sup> IEEE ICME Workshop on Advances in Automated Multimedia Surveillance for Public Safety (AAMS-PS2013), July 2013, San Jose, USA
- 2012 General Co-chair, 2<sup>nd</sup> IEEE ICME Workshop on Advances in Automated Multimedia Surveillance for Public Safety (AAMS-PS2012), July 2012, Melbourne, Australia
- 2012 TPC Member, IEEE ICME 2012 Conference, Melbourne, Australia
- 2011 General Co-chair, 1<sup>st</sup> IEEE ICME Workshop on Advances in Automated Multimedia Surveillance for Public Safety (AAMS-PS 2011), July 2011, Barcelona, Spain.
- 2011 TPC Member, IEEE ICME 2011-14 Conference
- 2011 TPC Member, ICME AIME 2011 Workshop, Barcelona, Spain
- 2011 TPC Member, ACM Multimedia 2011 Workshop, Arizona, USA
- 2010 TPC Member, ACM Multimedia 2010 Conference, Italy
- 2009 TPC Member, ACM MM 2009 workshop on MSAIDU, Beijing, China
- 2008 Web Co-chair, Ambi-sys 2008 Conference, Quebec, Canada

### 3) Conference Presentation

- 2016 IEEE ICME MUST-EH Workshop, July 2016, Seattle, USA
- 2015 IEEE ICME MUST-EH Workshop, July 2015, Turin, Italy
- 2014 IEEE ICME MIS-Media Workshop, July 2014, Chengdu, China
- 2013 IEEE ICME MUST-EH2013 workshop, San Jose, USA
- 2012 IEEE ICME MUST-EH workshop 2012, Melbourne, Australia
- 2011 IEEE ICME AIME workshop, Barcelona, Spain
- 2008 IEEE-QoISN Workshop, Georgia, Atlanta, USA
- 2008 IEEE-I2MTC, Victoria, Canada
- 2007 IEEE-ICDE Workshop on AIMS, Istanbul, Turkey
- 2007 IET Intelligent Environment, ULM, Germany
- 2006 IEEE AICS, Sheffield, UK
- 2005 I2LOR Scientific Conference, Vancouver, Canada

### 4) Reviewer

- IEEE Transactions on Circuits and Systems for Video Technology
- Elsevier Future Generation Computer Systems Journal
- ACM Transactions on TIST
- IEEE Transaction on Information Technology in Bio-Medicine (TITB)
- IEEE Transactions on Multimedia (TMM)
- Multimedia Tools and Application Journal (MTAP), and Multimedia Systems, Springer
- IEEE Transactions on Instrumentations and Measurements (TIM)
- ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)
- InderScience International Journal on Advanced Media and Communication (IJAMC)
- ETRI Journal
- ACM MM Conference 2009, 2010, ACM MM Workshop 2011
- IEEE ICME 2011, 2012, 2013, IEEE ISPAN 2014, ICME 2015-2016
- Ambi-sys Conference 2008

**5) Administrative Involvement**

09/2012– present	Head of Graduation Studies Committee, Software Engineering Dept., CCIS, KSU
09/2013 - present	Member, SWE Department Curriculum and Accreditation Committee
02/2012– present	Member, C4I Center for Advanced Systems, and IBM CAS Center, KSU
09/2010– 06/2013	Head of International Collaboration Committee, Software Engineering Department, CCIS, KSU
09/2011–06/2012	Member, BS Graduation Project Committee, Software Engineering Department, CCIS, KSU
02/2011– 06/2013	Member, Department Faculty Hiring Evaluation Committee, Software Engineering Department, CCIS, KSU
02/2011– 04/2012	Member, ABET Accreditation Committee, Software Engineering Department, CCIS, KSU
09/2010 – 09/2011	Head of Undergraduate Project Committee, Software Engineering Department, CCIS, KSU
07/2010 – present	Member, Advanced Software Engineering Research Lab, CCIS, KSU
05/2003 – 06/2010	Web coordinator, Multimedia Communications Research Lab, University of Ottawa, Canada

**6) Miscellaneous**

2015	IBM Hackathon Judge at King Saud University
2008 – 2009	Student Ambassador, IEEE I&M Society, Ottawa, Canada
2006	Volunteer, CCECE 2006 Conference, Ottawa, Canada
2004-2005	Volunteer, HAVE 2004, 2005 Conference, Ottawa, Canada

**Teaching Activities**At King Saud University:

- Software Requirements Engineering – SWE 312 (Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017), and SWE 503 (Fall 2017 – Graduate course)
- Multimedia Systems – SWE 518 (Graduate course-Winter 2015)
- Object Oriented Software Engineering – SWE 501 (Graduate course-Fall 2014, Fall 2015, Fall 2016)
- Software Design and Architecture – SWE 321 (Winter/Fall 2013, Winter/Fall 2014, Winter 2015)
- Human Computer Interaction - SWE 482 (Fall 2012)
- Introduction to Software Engineering - SWE 211 (Winter 2011, part of the course)
- Analysis and Design of Object-oriented Software System - IS 491 (Summer 2010)
- Web Applications Development- SWE 381 (Fall 2010, Winter/Fall 2011, Winter/Fall 2012, Summer 2014)

At University of Ottawa, Canada as Teaching Assistant:

- WWW Structure (CSI 3140)
- Analysis and Design for User Interfaces (SEG 3120)
- Computing Concept for Business (CSI 1306)
- Fundamentals of Engineering Computations (GNG 1120)
- Introduction to Computing-I (CSI 1303)
- Computing Concepts for Business (CSI 1301D)
- Systems and Architectures for E-Commerce (CSI 5389 - graduate course)

## Research Activities

### 1) Thesis/Project Supervision

- International

2016--present	Ph.D. Co-supervision in Khulna University	Internet of Things based Framework for Situation Awareness in Smart Cities
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- At King Saud University (list not exhaustive):

2017-2018	Master Thesis	Building Dynamic Communities of Interest among Internet of Things IoT Objects
2016-2017	Master Thesis	Health Data Interoperability in Medical Cyber- physical Systems
2015-2016	Master thesis	Privacy Engineering of Smart City Services
2015-2016	Master Thesis	Machine to Machine enabled Architecture for Improved Situation Awareness in Ambient Assisted Living
2013-2015	Master thesis	Cloud-based Publish-Subscribe System for Smart Cities
2017	BS Graduation Project	Development of Community Service Portal for Saudi Society (3 students)
2016	BS Graduation Project	Health Services Marketplace in KSA (4 students)
2015-2016	BS Graduation Project	Hot Deals (3 students)
2015-2016	BS Graduation Project	Smart Rental Guide as Mobile Application (5 students)
2014-2015	BS Graduation Project (nominated for competition)	Event Listing and Management for Campus Life (3 Students)
2013-2014	BS Graduation Project (nominated for competition)	Development of a Utility Service Delivery Framework (3 students)
2013	BS Graduation Project	A Decision Support Tool for International Energy Forum based on JODI Data (4 students)
2012-2013	BS Graduation Project (nominated for competition)	3 <sup>rd</sup> Eye-Development of a Mobile Surveillance System (4 students)
2012-2013	BS Graduation Project	RePrompt – Research Project Management Toolkit (4 students)
2012-2013	BS Graduation Project	Online Medical Consultation System- A Saudi ICT4D Case (3 students)
2011-2012	BS Graduation Project (nominated for competition)	GreenRectangle-Online sports news portal (4 students)
2011-2012	BS Graduation Project	Cloud-based Multimedia Surveillance (3 students)
2011	M.Sc. project in IS Dept	Modeling alert-response for distributed surveillance
2010-2011	BS Graduation Project (nominated for competition)	Smart HealthCare (4 students)
2010-2011	BS Graduation Project	User-powered online news services (3 students)

2010-2011	BS Graduation Project	Service-oriented smart home surveillance system (3 students)
• <u>At University of Ottawa, Canada:</u>		
2008	BS Graduation Project	Context-aware Smart Room (4 students)
2005-2006	BS Graduation Project	SOPLE: Service-oriented personalized learning environment (5 students)
2006	BS Graduation Project	Smart Mirror (4 students)

## 2) Research Projects and Funding

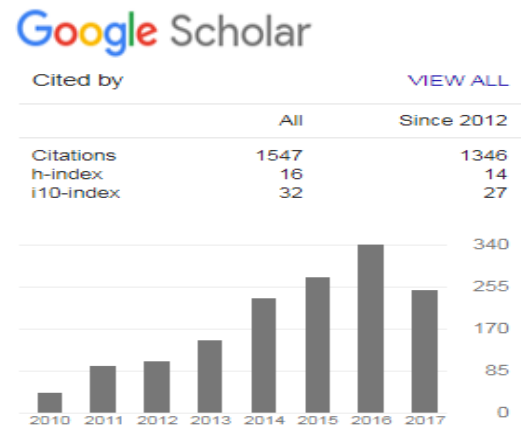
- Served as PI of NPST project “Privacy and Quality-aware Monitoring Framework for Public Security”
- Served as Co-PI of NPST project “Novel Pervasive Computing Approach to Counter and Manage Obesity in KSA”
- Served as Co-PI of NPST project “Modeling and Simulation of C4I Testbed”
- In the past, I was involved with IBM MUSES-SECRET project (\$5 million), and LORNET NSERC projects (\$7.5 million) from the University of Ottawa, Canada as a Ph.D. Student Researcher.

## 3) Publications

**Journals (published/accepted)-----48**

**Book Chapters ----- 3**

**Conference/workshop proceedings-----45**



**Citizenship Status:** Canadian Citizen