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Department of Math., Stat., and Computer Science
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Major research interests: mHealth, Smart phone (iPhone/iPad/Android) based Healthcare, mobile/pervasive computing, Emotion based/affective computing, security and privacy

Personal Statement: I bring my experience as a Professor, Senior Scientist, and Director of the Ubicomp lab (ubicomp.mscs.mu.edu), which I established in 2003. Members of the Ubicomp lab have extensive research and development experience in Healthcare with Mobile computing. Currently, the Ubicomp lab has 15 members (faculty, Phd and MS students) and had over \$1,200,000 funding for healthcare projects. I am currently the PI and Co-PI of seven grants on mobile phone based systems, and recently completed two projects on which I was also the PI. I bring a strong background in patient monitoring, customized text messaging systems, building unobtrusive low-cost indoor locations, pain management tools, mapping technology, and activity monitoring for smart phones. I have worked with engineering faculty, nursing faculty, psychology medical doctors on 20 healthcare grants over the last 13 years. I have worked with 3 US hospitals and 3 international hospitals. I have closely worked with American Indian and Hispanic populations on different projects. I have also worked with few leading healthcare companies. My research and development experience in mobile platforms (iPhone, Android, windows mobile, Symbian, Tiny OS) help me in developing mobile applications needed for any mHealth project. My expertise in cell phones, sensors, tablets, web apps and HIPAA compliant cloud systems also help to accomplish my research goals. My expertise in mHealth tools and experience with working with the current team have prepared me to lead and manage the entire software system of many projects. I have graduated 9 Phd students and 30 MS students in the healthcare and Health Engineering areas. In addition, I have completed a number of NIH funded mHealth projects. I am a recipient of the Way-Klinger Young Scientist Award (2007), which is one of the highest honors for research at Marquette University. I have published 150+ papers in peer reviewed journals, conferences, and workshops. I have received 10 best paper/poster awards in the last seven years. I serve regularly on international conference program committees in mHealth, software engineering, and mobile/pervasive computing. I am the Steering Committee Chair of IEEE COMPSAC (compsac.org), which is the second position from the top of 400 researchers. I successfully lead the whole organization of 400 researchers affiliated with IEEE COMPSAC. It has prepared me very well to lead any big organization. I have also served as the Guest Editor of Computer Communications Journal, Elsevier.

Summary of research and scholarly activities

Recognition of research internationally	Serving as Steering Committee Chair of IEEE COMPSAC, the IEEE Computer Society's signature conference on	Affiliated with 400+ researchers from all over world
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	computers, software & applications, since 2015	
Number of Grants	38 (small and large)	\$1200,000 (NIH, NIDDR, Microsoft, IBCRF, CTSI,HWPP)
Number of peer reviewed articles	145 (133 at Marquette)	in IEEE Computer Society, ACM, Elsevier, Springer
Number Phd students supervised/supervising	16	9 graduated (4 faculty, 3 research scientists in Purdue and MCW, 2 in industry (Microsoft and Amazon)
Number of MS students with thesis/essay supervised/supervising	45	42 graduated and working in top companies like Microsoft, Facebook, Johnson Controls, Rockwell Automation, Cisco, Direct Supply, GE Healthcare
Number of research related course as independent studies	140	Prepared students for PhD and MS level research
Number of undergrad research projects	31	Prepared students for industry and graduate research
Research posters	80	Every year, there are 5 posters in forward thinking poster sessions and received 6 times best project in different categories

Contribution to Applied Science

1. Mobile Health(mHealth)

My research and development experience in mobile platforms (iPhone, Android, windows mobile, Symbian, Tiny OS) help me in developing mobile applications needed for any mHealth project. My expertise in cell phones, sensors, tablets, web apps and HIPAA compliant cloud systems help to accomplish the goals of many Healthcare projects.

- a) Love, R.R., Ferdousy, T., Paudel, B.D., Nahar, S., Dowla, R., Adibuzzaman, M., Ahsan, G.M.T., Uddin, M., Salim, R., and **Ahamed, S.I.**: Symptom levels in care-seeking Bangladeshi and Nepalese adults with advanced cancer. J Global Onc 2016. (in press)
- b) Md Munirul Haque, Ferdaus Ahmed Kawsar, Mohammad Adibuzzaman, **Sheikh Iqbal Ahamed**, Richard Love, Rumana Dowla, David Roe, Syed Hossain, Reza Salim: Findings of e-ESAS: a mobile based symptom monitoring system for breast cancer patients in rural Bangladesh. CHI2012: 899-908
- c) Munirul M. Haque, Ferdaus Ahmed Kawsar, Mohammad Adibuzzaman, **Sheikh Iqbal Ahamed**, Richard Love, Rumana Dowla, David Roe, Tahmina Ferdousy, Reza Selim: Findings of mobile based palliative care system: towards formulating a generic framework for measuring QoL. PervasiveHealth 2014: 1-8
- d) Md Haque, **Sheikh Iqbal Ahamed**, Richard Love, Ragib Hasan, Rumana Dowla, Tahmina Ferdousy, Reza Salim: e-ESAS: Evolution of a participatory design-based solution for breast cancer (BC) patients in rural Bangladesh. Personal and Ubiquitous Computing 19(2): 395-413 (2015)

2. Rehabilitation engineering

I have been working in rehab engineering for the last 5 years. I have worked extensively with R2D2 center on a number of projects. Here are a few examples:

- a) M. Osman Gani, Casey O'Brien, **Sheikh Iqbal Ahamed**, Roger O. Smith, RSSI Based Indoor Localization for Smartphone Using Fixed and Mobile Wireless Node. COMPSAC:110-117, 2013
- b) Nahid Negar, Drew Williams, Jaclyn Schwartz, **Sheikh Iqbal Ahamed**, Roger Smith, "Smartphone-based Light Intensity Calculation Application for Accessibility Measurement," Proc. of the Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) Conference (RESNA 2014), Indianapolis, IN, USA, 2014.
- c) Farzana Rahman, Casey O'Brien, Colin Ostberg, Nahid Negar, Duc Do, Drew Williams, **Sheikh I. Ahamed**, Roger Smith, "Measuring Font Signage with a Smartphone Application for ADAAG Compliance Assessment", Proc. of the Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) Conference (RESNA 2013), Bellevue, WA, USA, 2013.
- d) Mridul Khan, **Sheikh I. Ahamed**, Miftahur Rahman, and Roger Smith. A Feature Extraction Method for Real Time Human Activity Recognition on Cell Phones, Third International Symposium on Quality of Life Technology, 6 pages, 2011.

3. Mobile applications

My early publications directly addressed issues of mobile applications. Lab members and I together have developed and deployed a number applications. I served as the primary investigator or co-investigator for all of these studies. Here are a few publications in the mobile applications area:

- a) Mohammad Adibuzzaman, **Sheikh Iqbal Ahamed**, Richard Love: A personalized model for monitoring vital signs using camera of the smart phone. SAC 2014: 444-449.
- b) Munirul M. Haque, Ferdaus Kawsar, Md. Adibuzzaman, **Sheikh I. Ahamed**, Richard Love, Rumana Dowla, David Roe, Reza Selim, Findings of e-ESAS: A Mobile Based Symptom Monitoring System for Breast Cancer Patients in Rural Bangladesh, Proceedings of the Association for Computing Machinery (ACM)'s Special Interest Group on Computer-Human Interaction (SIGCHI) Conference on Human Factors in Computing Systems (CHI), May 5-10, 2012, Austin, Texas. (10 pages) [Honorable mention for Best paper]
- c) Munirul M Haque, Ferdaus Kawsar, Md. Adibuzzaman, **Sheikh I. Ahamed**, Richard Love, Rumana Dowla, David Roe, Reza Selim, Mobile Based health Care Solution for Breast Cancer Patients, Proceedings of the 3rd International Conference on Mobile communication for Development, Delhi, India, 38-50, February 2012. (Acceptance rate: 20%)
- d) Rezwan Islam, **Sheikh I. Ahamed**, Hasan Chowdhury, and Casey O'Brien. Home-Healthcare-Network (H2N): An Autonomous Care-giving System for Elderly People, Information Quality in eHealth, Lecture notes in Computer Science, Springer, 245-262, 2011.

4. Middleware

In addition to the contributions described above, with a team of collaborators, I have worked on middleware. Middleware runs on top of the operating system. It makes the communication transparent to the user and applications and has enabled us to develop additional applications.

- a) Haifeng Li*, Nilothpal Talukder*, Mehrab Monjur*, Chowdhury Sharif Hasan*, and **Sheikh Iqbal Ahamed**. Design and implementation of S-MARKS: A secure middleware for pervasive computing applications, International Journal of System and Software 2009, Volume 82, Issue 10, Elsevier publications, 1657-1677, October 2009.
- b) Moushumi Sharmin*, Shameem Ahmed*, and **Sheikh Iqbal Ahamed**. Design and Implementation of MARKS (Middleware Adaptability for Resource Discovery, Knowledge Usability and Self-healing) Middleware for Pervasive Computing Environments, in Ubiquitous Computing and Communication Journal, Volume 3, 2007.
- c) Vaibhav Tyagi* and **Sheikh Iqbal Ahamed**. Co-Learn: Collaborative Learning Engine - A Vision for Pervasive Collaboration in E-Learning, in the 12th International Conference on Human-Computer Interaction, Lecture Notes in Computer Science (LNCS), Springer, Beijing, China, 833-842, July 22-27, 2007.
- d) Moushumi Sharmin*, Shameem Ahmed*, and **Sheikh Iqbal Ahamed**. MARKS (Middleware Adaptability for Resource Discovery, Knowledge Usability and Self-healing) for Mobile Devices of Pervasive Computing Environments, Proceedings of the Third International Conference on Information Technology: New Generations (ITNG 2006), IEEE CS Press, Las Vegas, NV, 306-313, April, 2006. (Acceptance rate 40%)

5. HCI issues

I have worked on HCI issues extensively. I have tried to use those in real healthcare applications. Here are a few publications in this area:

- a) Drew Williams, Mong-Te Wang, Chih-Hung Chang, **Sheikh Iqbal Ahamed**, William C. Chu: ShowMeHow: Using Smart, Interactive Tutorials in Elderly Software Development. ICOST 2014: 49-58
- b) Moushumi Sharmin, Shameem Ahmed , Munirul Haque, Ahmed Khan, and **Sheikh Iqbal Ahamed**. Design and Implementation of a Virtual Assistant for Healthcare Professionals Using Pervasive Computing Technologies, Journal Springer e&i, vol. 123(4), 112-120, April 2006.
- c) Moushumi Sharmin, Shameem Ahmed, Munirul Haque, Ahmed Khan, and **Sheikh Iqbal Ahamed**. Healthcare Aide: Towards a Virtual Assistant for Doctors, Patients, Nurses and Resident Doctors Using Pervasive Middleware, Proceedings of the 1st Workshop on Ubiquitous and Pervasive Health Care (UbiCare 2006), in conjunction with Fourth Annual IEEE International Conference on Pervasive Computer and Communications (PerCom 2006), IEEE CS Press, Pisa, Italy, 490-495, March 2006. (Acceptance rate 21%)
- d) Rezwan Islam, Nilothpal Talukder, Ian Obermiller, and **Sheikh Iqbal Ahamed**. Usability of Mobile Computing Technologies to Assist Cancer Patients, Proceedings of the HCI and Usability for Medicine and Health Care, Third Symposium of the Workgroup Human-Computer Interaction and Usability Engineering of the Austrian Computer Society, USAB 2007, Graz, Austria, November, 22, 2007, Proceedings. Lecture Notes in Computer Science 4799 Springer, 227-240, 2007.

6. Security, privacy and trust

Any system we build needs security, privacy, and trust. I have addressed security and trust extensively. I have deployed systems with security and privacy. Here are a few publications in this area:

- a) Moushumi Sharmin and **Sheikh Iqbal Ahamed**. A trust-based secure service discovery (TSSD) model for pervasive computing, International Journal of Communications Elsevier, 31, 4281–4293, 2008.
- b) E. Hoque, F. Rahman, M. Zulkernine and **Sheikh Iqbal Ahamed**. Towards Secure Trust Bootstrapping in Pervasive Computing Environment, Proc. of the 11th IEEE International Symposium on High Assurance System Engineering (HASE), IEEE CS Press, Nanjing, China, 89-96, December 2008.
- c) Nilothpal Talukder and **Sheikh Iqbal Ahamed**. FPCS: A Formal Approach for Privacy-aware Context-based Services, Proceedings of the 32nd Annual International Computer Software and Applications Conference (COMPSAC 2008), IEEE CS Press, Turku, Finland, 432-439, July 28-August 1, 2008.
- d) Moushumi Sharmin, Shameem Ahmed, and **Sheikh Iqbal Ahamed**. A Risk-aware Trust Based Secure Resource Discovery (RTSRD) Model for Pervasive Computing, Proceedings of the 2nd IEEE International Workshop on Web and Pervasive Security of PerCom, Hong Kong, 590-595, March 2008.

Full bibliography can be found here: http://dblp.uni-trier.de/pers/hd/a/Ahamed:Sheikh_Iqbal

Major recent funded applied science research projects

Agency: NIH

Title: American Indian Mhealth Smoking Dependence Study

Goal: Develop mHealth text messages to help American Indians to quit smoking. The goal of this project is to develop a customized messaging system and reporting system.

Role: PI for Marquette University

Agency: NIH

Title: Efficacy of a m-Health Self-Management Intervention

Goal: Develop mHealth system to motivate women to have calcium rich food and do exercise to prevent osteoporosis. The goal of this project is to develop a self-management framework for woman.

Role: PI mHealth part of Marquette University

Agency: Healthier Wisconsin Partnership Program (HWPP)

Title DryHootch iPeer: A Social & Technology Support Program for Veteran Mental Health

Goal: Develop the software system mPeer: Mobile Detection of High Risk Behavior in Veterans – A Sociotechnical Systems Approach, where a veteran can input their daily status and mentors can see daily and weekly status and advise peer veterans.

Role: PI for Marquette University

Agency: NIDILRR

Title HESTIA: Development of a multi-facet software evaluation for home reintegration: There is an app for that?

Goal: HESTIA will provide an in-depth multi-faceted assessment to identify problems in the home environment that hamper a person's ability to successfully live as independently as possible. The purpose of this system, and long-term goal of this project, is to get a user friendly, thorough, yet efficient home environment assessment in that hands of therapists to enable living and aging at

home. Ubicomp lab will develop the mobile software based on the research and design of R2D2 center and Texas Woman's University.

Role: PI for Marquette University

Agency: CTSI

Title: Prematurity 101: mHealth enhanced prenatal education

Goal: Develop a mHealth educational app containing prematurity-related fetal and neonatal information for parents at risk of premature delivery, and pilot the mHealth app during the prenatal period among parents determined by their obstetric provider to be at risk for premature delivery.

Role: PI for Marquette University

Agency: Int'l Breast Cancer Research Foundation

Title: Breast Cancer Palliation Study Phase I. Phase II and Phase III

Goal: Develop and establish feasibility of multiple and remote site assessments and information transmission using basic (Nokia) cell phone/Android phone for palliative care.

Role: PI

MORE DETAILS

I. EDUCATION BEYOND SECONDARY SCHOOL

Arizona State Univ. in Tempe, AZ

Ph.D. in C.S. 8/8/03

Bangladesh Univ. of Eng. & Tech., Dhaka, Bangladesh

B.S. in C.S. 2/95
& Engineering

II. RANKS AT MARQUETTE

Professor:

8/20/13 – present

Director, Ubicomp Lab

8/16/04 – present

Associate Professor:

8/18/08 – 8/19/13

Assistant Professor

8/16/03 – 8/17/08

ACADEMIC TENURE:

Tenured

FULL TIME FACULTY SERVICE AT MARQUETTE:

8/16/03

III. RANKS AT OTHER INSTITUTIONS

Adjunct Professor, CTSI, Medical College of Wisconsin

8/20/13 – present

Adjunct Associate Professor:

8/18/08 – 8/19/13

Research Scientist, R2D2 center, UWM

8/20/11 – present

IV. OTHER TEACHING EXPERIENCE

Ahsanullah Univ. of Science of Eng.,
Bangladesh (Taught C/C++, Pascal,
Assembly Language, Algorithms,
Software Engineering Projects, and

Lecturer

12/95-12/97

Full-Time

Digital Electronics)

Bangladesh Univ. of Eng. & Tech. (Taught Computer Graphics, Computers for Professionals, and Digital Logic Design)	External Faculty	12/95-6/96	Part-Time
Arizona State Univ., C.S. & Eng. Dept. (Helped instructors for CSE 461/598 Software Projects I, & CSE 310 Advance Data Structures)	T.A.	1/98-12/99	Part-Time
Arizona State Univ., C.S. & Eng. Dept.	R.A.	1/00-5/00	Part-Time
Arizona State Univ., C.S. & Eng. Dept. (Under supv. of Prof. S. S. Yau.)	R.A. member	1/98-7/03	Part-Time
Arizona State Univ., Tempe, AZ. (Taught CSE 210 Object Oriented Design and Data Structures (2 sections), and CSE 110 Programming with Java.)	Instructor at C.S & Eng. Dept.	5/00-7/03	Full-Time

V. OTHER WORK EXPERIENCE

Reliance Computers, Bangladesh	Comp. Engineer	3/95-6/95	Full-Time
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VI. MEMBERSHIP IN PROFESSIONAL AND HONORARY SOCIETIES

IEEE Computer Society	Senior Member	2012-present
IEEE Computer Society	Member	1998-present
Association of Computing Machinery (ACM)	Member	1998-present
Internet Society (ISOC)	Member	1998-present
Upsilon Pi Upsilon	Member	1999-present
Gamma Beta Phi	Member	2000-present

VI. OFFICES HELD IN PROFESSIONAL AND HONORARY SOCIETIES

General Secretary IEEE Computer Society Student Chapter, ASU	1999-2000
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VII. HONORS/AWARDS/INVITATIONS

1. Invited to serve on NIH grant review panel, 2016.
2. Invited to serve on NIH grant review panel, 2015.
3. *2 Best Poster/Project* in Forward thinking poster session (International Category), Marquette University, December 2015
4. *Best Paper Nomination* (Top 3 out of 100+ submissions), Pervasive Health 2014
5. Invited to serve on NIH grant review panel, 2014.
6. *Best Paper Award*, ACM RACS, Montreal, Canada, November, 2013
7. *Best Poster/Project* in Forward thinking poster session (International Category), Marquette University, December 2013

8. *Best Poster/Project* in Forward thinking poster session (International Category), Marquette University, December 2012
9. Honorable mention for *Best Paper* in the Association for Computing Machinery (ACM)'s Conference on Human Factors in Computing Systems (CHI), Austin, Texas, May 5–10, 2012
10. Invited to serve on NSF grant review panel, January 2012
11. *Best Poster/Project* in Forward thinking poster session (International Category), Marquette University, December 2011
12. *Best Poster/Project* in Forward thinking poster session at Marquette University, December 2010
13. *Best Paper Award*, 33rd Annual International Computer Software and Applications Conference (COMPSAC 2009), Seattle, WA, July 20-224, 2009
14. *Best Paper Award* in the Second International Workshop on Ubiquitous & Trustworthy Computing (TwUC), Jakarta, Indonesia, December 2007
15. *Best Paper Award* in the 30th Annual IEEE CS International Computer Software and Applications Conference (COMPSAC 2007), [COMPSAC is the oldest and signature conference of IEEE Computer society]. There were 325 submissions.
16. *The Way-Klinger Young Scholars Award* (one-semester sabbatical for doing research and additional funding for travel; the award amount was: \$32,000, 2008. (It's very competitive.)
17. Invited talk, Tsinghua University at Beijing, China, which is one of the top ranked universities in China, August 2009
18. Invited to give a talk as an expert in Green computing to Tsinghua University at Beijing, China, which is one of the top ranked universities in China, January 2010
19. Invited to serve on NSF grant review panel, May 2010
20. Invited to serve on NSF grant review panel, May 2009
21. Invited to serve on NSF grant review panel, March 2008
22. Invited to give a talk as an expert in pervasive computing to Peking University at Beijing, China, which is one of the top ranked universities in China, July 2007
23. Invited to serve on NSF grant review panel, April 2007
24. Invited to serve on NSF grant review panel, January 2007
25. Invited as a research faculty at Microsoft headquarters in Redmond, Seattle, WA, at the Research Faculty Summit, July 2008
26. Invited as a research faculty to Microsoft headquarters in Redmond, Seattle, WA, at the Research Faculty Summit, July 2007
27. Invited to serve on NSF grant review panel, May 2006
28. Invited as a research faculty to Microsoft headquarters in Redmond, Seattle, WA, at the Security Faculty Summit, April 2006
29. Invited as a research faculty to Microsoft headquarters in Redmond, Seattle, WA, at the Research Faculty Summit, July 2005.
30. Graduate Tuition Scholarship (out of state tuition waiver) 1998-2003
31. Graduate Academic scholarship (in-state tuition waiver) 1998-2003
32. Honors society Member: UPE and Gamma Beta Phi, 2000
33. Honorary member, Who's Who International for Professional Management, 2000
34. *1999 Excellent Teaching*, Arizona State University, AZ, 1999

35. *President's Award*, Peoples Republic of Bangladesh, for securing the 4th position among 60,000 students in the higher secondary certificate exam (12th grade public exam), 1987
36. *President's Award*, Peoples Republic of Bangladesh, for securing the 3rd position among 100,000 students in secondary certificate exam (10th grade) and interviewed on TV, 1985

VIII. SCHOLARLY PUBLICATIONS: (at Marquette University since August 2003) [100+]

A. Articles Published: (peer reviewed)

1. Love, R.R., Ferdousy, T., Paudel, B.D., Nahar, S., Dowla, R., Adibuzzaman, M., Ahsan, G.M.T., Uddin, M., Salim, R., and Ahamed, S.I.: Symptom levels in care-seeking Bangladeshi and Nepalese adults with advanced cancer. *J Global Onc* 2016. doi: 10.1200/JGO.2016.004119
2. Farzana Rahman, Ivor D. Addo, Sheikh Iqbal Ahamed, Ji-Jiang Yang, Qing Wang: Privacy Challenges and Goals in mHealth Systems. *Advances in Computers* 102: 47-62 (2016)
3. Md. Kamrul Hasan, Golam Mushih Tanimul Ahsan, Sheikh Iqbal Ahamed, Richard Love, Reza Salim: Pain Level Detection From Facial Image Captured by Smartphone. *JIP* 24(4): 598-608 (2016)
4. Ivor D. Addo, Praveen Madiraju, Sheikh Iqbal Ahamed, William C. Chu: Privacy Preservation in Affect-Driven Personalization. *COMPSAC Workshops 2016*: 400-405
5. Akm Jahangir Alam Majumder, Piyush Saxena, Sheikh Iqbal Ahamed: Your Walk is My Command: Gait Detection on Unconstrained Smartphone Using IoT System. *COMPSAC 2016*: 798-806
6. Ivor D. Addo, Sheikh Iqbal Ahamed, William C. Chu: Towards Modeling Confidentiality in Persuasive Robot Dialogue. *ICOST 2016*: 436-442
7. Ferdous Ahmed Kawsar, Md. Kamrul Hasan, Tanvir Roushan, Sheikh Iqbal Ahamed, William C. Chu, Richard Love: Activity Detection Using Time-Delay Embedding in Multi-modal Sensor System. *ICOST 2016*: 489-499
8. Haque, Md, Ferdous Kawsar, Md Uddin, Mohammad Adibuzzaman, Sheikh I. Ahamed, Richard Love, and Reza Salim. "e-ESAS: Evolution of a participatory design-based solution for breast cancer (BC) patients in rural Bangladesh.." *Personal and Ubiquitous Computing* 19.2 (2015): 395-413.
9. Arif, Muhammad, Ahmed Kattan, Mohsin Billal, and Sheikh I. Ahamed. "Better Physical Activity Classification using Smartphone Acceleration Sensor." *Journal of Medical Systems, Springer* 38.9 (2014).
10. Kawsar, Ferdous, Md K. Hasan, Richard Love, and Sheikh I. Ahamed. "A Novel Activity Detection System Using Plantar Pressure Sensors and Smartphone." *IEEE Computer Society*, 2015. 44-49.
11. Ivor D. Addo, Duc Do, Rong Ge, Sheikh Iqbal Ahamed: A Reference Architecture for Social Media Intelligence Applications in the Cloud. *COMPSAC 2015*: 906-913
12. Adibuzzaman, Mohammad, Colin Ostberg, Sheikh I. Ahamed, Richard J. Povinelli, Bhagwant Sindhu, Richard Love, Ferdous Kawsar, and Tanimul

- Ahsan. "Assessment of Pain Using Facial Pictures Taken with a Smartphone." IEEE Computer Software and Applications Conference (COMPSAC), 2015.
13. Majumder, AKM Jahangir A., Sheikh I. Ahamed, Richard J. Povinelli, Chandana P. Tamma, and Rodger Smith. "A Novel Wireless System to Monitor Gait Using Smartshoe-Worn Sensors." IEEE Computer Software and Applications Conference (COMPSAC), 2015.
 14. Zafke, Aaron, Niharika Jain, Norah Johnson, Mohammad Arif Al, Marta T. Magiera, and Sheikh I. Ahamed. "iCanLearn: A Mobile Application for creating flashcards and social stories™ for children with autism.." Proceedings of the 12th International Conference on Smart Homes and Health Telematics. Helal, S., Gu, T., & Mokhtari, H. (Eds.), Smart Home and Telematics, Lecture Notes in Computer Science, 2015. 225-230.
 15. Addo, Ivor and Sheikh I. Ahamed. "Applying affective feedback to reinforcement learning in ZOEL, a comic humanoid robot." The 23rd IEEE International Symposium on Robot and Human Interactive Communication, IEEE RO-MAN 2014, Edinburgh, UK, 2014. 423-428.
 16. Farzana Rahman, Sheikh Iqbal Ahamed: Efficient detection of counterfeit products in large-scale RFID systems using batch authentication protocols. *Personal and Ubiquitous Computing* 18(1): 177-188 (2014)
 17. Farzana Rahman, Drew Williams, Sheikh Iqbal Ahamed, Ji-Jiang Yang, Qing Wang: PriDaC: Privacy Preserving Data Collection in Sensor Enabled RFID Based Healthcare Services. *HASE 2014*: 236-242
 18. Mohammad Adibuzzaman, Sheikh Iqbal Ahamed, Richard Love: A personalized model for monitoring vital signs using camera of the smart phone. *SAC 2014*: 444-449
 19. Ferdaus Ahmed Kawsar, Sheikh Iqbal Ahamed, Richard Love: Smartphone based multimodal activity detection system using plantar pressure sensors. *SAC 2014*: 468-469
 20. M. Osman Gani, Casey O'Brien, Sheikh Iqbal Ahamed, Roger O. Smith, RSSI Based Indoor Localization for Smartphone Using Fixed and Mobile Wireless Node. *COMPSAC*:110-117, 2013.
 21. Ivor D. Addo, Sheikh Iqbal Ahamed, William C. Chu, Toward Collective Intelligence for Fighting Obesity. *COMPSAC*: 690-695, 2013.
 22. Farzana Rahman, Sheikh Iqbal Ahamed, Ji-Jiang Yang, Qing Wang, PriGen: A Generic Framework to Preserve Privacy of Healthcare Data in the Cloud. *ICOST*: 77-85, 2013.
 23. Mohammad A. Alam, Weiqiang Wang, Sheikh Iqbal Ahamed, William C. Chu, Elderly Safety: A Smartphone Based Real Time Approach. *ICOST*: 134-142, 2013.
 24. Farzana Rahman, Sheikh Iqbal Ahamed, Towards Improving Reliability of Computational RFID Based Smart Healthcare Monitoring Systems. *ICOST*: 211-217, 2013.
 25. Sheikh Iqbal Ahamed, Md. Munirul Haque*, and Chowdhury Sharif Hasan *. *A novel location privacy framework without trusted third party based on location anonymity prediction*, *SIGAPP Appl. Computing Review Journal*, Volume 12, Issue 1, 24-34, April 2012.
 26. Munirul M. Haque*, Ferdaus Kawsar*, Md. Adibuzzaman*, Sheikh I. Ahamed, Richard Love, Rumana Dowla, David Roe, Reza Selim, *Findings of e-ESAS: A Mobile Based Symptom Monitoring System for Breast Cancer Patients in Rural*

- Bangladesh*, Proceedings of the Association for Computing Machinery (ACM)'s Special Interest Group on Computer–Human Interaction (SIGCHI) Conference on Human Factors in Computing Systems (CHI), May 5–10, 2012, Austin, Texas. (10 pages) [Honorable mention for Best paper]
27. Farzana Rahman* and Sheikh Iqbal Ahamed, *DRAP: A Robust Authentication Protocol to Ensure Survivability of Computational RFID Networks*, Proceedings of ACM Symposium on Applied Computing (SAC 2012), Italy, March, 2012. (Acceptance rate: 24%) (6 pages)
 28. Farzana Rahman*, Casey O'Brien*, Kristine Manning*, Jason Cowdy*, Sheikh Iqbal Ahamed, *Let EcoDrive be Your Guide: Development of a Mobile Tool to Reduce Carbon Footprint and Promote Green Transport*, Proceedings of ACM Symposium on Applied Computing (SAC 2012), Italy, 2012. (Acceptance rate: 24%) (6 pages)
 29. Farzana Rahman*, Sheikh I. Ahamed, Endadul Hoque*, *Preserving privacy in wireless sensor networks using reliable data aggregation*, ACM SIGAPP Applied Computing Review Journal, Volume 11 Issue 3, August 2011.
 30. Munirul M Haque*, Ferdaus Kawsar*, Md. Adibuzzaman*, Sheikh I. Ahamed, Richard Love, Rumana Dowla, David Roe, Reza Selim, *Mobile Based health Care Solution for Breast Cancer Patients*, Proceedings of the 3rd International Conference on Mobile communication for Development, Delhi, India, 38-50, February 2012. (Acceptance rate: 20%)
 31. Farzana Rahman*, Casey O'Brien*, Sheikh I. Ahamed, He Zhang, and Lin Liu. *Design and implementation of an open framework for ubiquitous carbon footprint calculator applications*, Journal of Sustainable Computing: Informatics and Systems, 257-274, 2011.
 32. Md Haque*, Sheikh I. Ahamed, Md Adibuzzaman*, David Polyak*, Niharika Jain*, and Lin Liu. *IRENE: Context Aware Mood Sharing for Social Network*, International Workshop on Knowledge and Service Technology for Life, Environment, and Sustainability (KASTLES), 2011.
 33. Mridul Khan*, Sheikh I. Ahamed, Miftahur Rahman, and Roger Smith. *A Feature Extraction Method for Real Time Human Activity Recognition on Cell Phones*, Third International Symposium on Quality of Life Technology, 6 pages, 2011.
 34. Sheikh Ahamed, Mohammad Tanviruzzaman*, Casey O'Brien*, Rizwana Rizia and Roger Smith*. *iPhone as a Quality of Life Enhancement Tool*, Third International Symposium on Quality of Life Technology, 6 pages, 2011.
 35. Rezwana Islam, Sheikh I. Ahamed, Hasan Chowdhury*, and Casey O'Brien*. *Home-Healthcare-Network (H2N): An Autonomous Care-giving System for Elderly People*, Information Quality in eHealth, Lecture notes in Computer Science, Springer, 245-262, 2011.
 36. Sheikh I. Ahamed, Chowdhury Hasan*, Md M. Haque*, and Md. Gani*. *Towards TTP-Free Lightweight Solution for Location Privacy Using Location-Based Anonymity Prediction*, ACM research in Applied Computation Symposium (RACS 2011), 5 pages, 2011.
 37. Sheikh I. Ahamed, Md. Adibuzzaman*, Ferdaus Kawsar*, and Md. Haque*. *PryGuard: A Secure Distributed Authentication Protocol for Pervasive Computing Environment*, 24th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE, 135-145, 2011.

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C. Articles Published: (at ASU, USA and Bangladesh)

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4. Sheikh Iqbal Ahamed. *Information dissemination service for ubiquitous environments*, Workshop on Research in Computer Science (WRCS) 2002, Arizona State University, Tempe, AZ, Tuesday, March 19, 2002.
5. Sheikh Iqbal Ahamed. *Multicasting Connector Architecture for Component-based Distributed Communication Applications*, Proceedings of IASTED International Conference Communication Systems and Networks (CSN 2002), Malaga, Spain, September 9-12, 2002.
6. Sheikh Iqbal Ahamed. *Quality attributes based requirements in 2002* http://tdg.lsi.us.es/woobs02/doc/agenda_component_based_software_development.html, Proceedings of the 2nd International Workshop on Object-Oriented Business Solutions WOOPS'02, Poznan, Poland.
7. Sheikh Iqbal Ahamed, S. Ali, D. G. Bingham, A. Dawra, L. T. Ha, T. M. Luong, D. Martinez, J. Morris, S. A. Palangala, and J. E. Urban. *Software Requirements on the Web*, Proceedings of the 4th International Conference on Business Information Systems (BIS'2000), Poznan, Poland, April 12-13, 2000. http://bis.kie.ae.poznan.pl/4th_bis/4_proceedings.htm.
8. Sheikh Iqbal Ahamed, L. Rahman, M. Alamgir, *Fundamentals of Computer Science*, Bangladesh Open University, Bangladesh, 1997. (A Text book of Bangladesh Open University, Dhaka, Bangladesh).

D. Poster presented

Presented 60 posters in local and international conferences.

E. Other Publications:

Book Chapters:

1. Shameem Ahmed, Moushumi Sharmin, Chowdhury S. Hasan, and Sheikh Iqbal Ahamed. *Self-healing for Autonomic Pervasive Computing* (book chapter).

Autonomic Communication, ISBN 978-0-387-09752-7, Springer Science+Business Media, LLC, 285, 2009.

2. Sheikh I. Ahamed, John F. Buford, Moushumi Sharmin, Munirul M. Haque, and Nilothpal Talukder, *Secure Service Discovery* (book chapter). Y. Zhang, J. Zheng, and M. Ma (Editors), Handbook of Research on Wireless Security, IGI Global, ISBN-10: 159904899X, ISBN-13: 978-1599048994, March 2008.
3. Munirul Haque*, Mohammad Zulkernine, and Sheikh Iqbal Ahamed. *Security, Privacy, and Trust for Pervasive Computing Applications* (book chapter). G. Karmakar and L. Dooley (editors), Mobile Multimedia Communications: Concepts, Applications and Challenges, Idea Group Publishing, 2007.
4. Mohammad Zulkernine and Sheikh Iqbal Ahamed. *Software Security Engineering: Towards Unifying Software Engineering and Security Engineering* (book chapter). M. Warkentin and R. Vaughn (editors), Enterprise Information Systems Assurance and System Security: Managerial and Technical Issues, Idea Group Publishing, 2006.

Dissertation/Thesis:

1. An Information Dissemination Service for Ubiquitous Computing Applications, Ph.D. dissertation, August 2003.
2. Logic Synthesis and Optimization, B. Sc. Engineering thesis, February 1995.

IX. OTHER SCHOLARLY ACTIVITIES

A. Invited Addresses at Meetings, Colloquia, Seminars, etc.:

1.	Ahamed, Sheikh I, <i>Affective Computing</i> , City University, Hongkong, Nov 2016	Int'l
2.	Ahamed, Sheikh I, <i>Shenzhen Tsinghua University</i> , China, March 2016	Int'l
3.	Ahamed, Sheikh I, <i>mHealth</i> , Tsinghua University, China, March 2015	Int'l
4.	Ahamed, Sheikh I, <i>Towards Affective Computing</i> , Taichung University, Taiwan, July 2015	Int'l
5.	Ahamed, Sheikh I, <i>Affective Computing</i> , Hongkong Polytechnique University, Hongkong, Dec 2014	Int'l
6.	Ahamed, Sheikh I, <i>Future of Pervasive/Ubiquitous Healthcare</i> , Tsinghua University, China, April 2012	Int'l
7.	Ahamed, Sheikh I, <i>Pervasive/Ubiquitous Healthcare</i> , Hong Kong City University in Hong Kong, China, February 2012	Int'l
8.	Ahamed, Sheikh I, <i>Pervasive/Ubiquitous Security</i> , Hong Kong University of Science and Technology, China, February 2012	Int'l

9.	Ahamed, Sheikh I, <i>Pervasive/Ubiquitous Healthcare</i> , Cancer Research Center, South Dakota, January 2012	National
10.	Ahamed, Sheikh I, <i>Pervasive/Ubiquitous Healthcare</i> , UWM, February 2012	Local
11.	Ahamed, Sheikh I, <i>Pervasive/Ubiquitous Healthcare</i> , Hong Kong Polytechnic University in Hong Kong, China, August 2011	Int'l
12.	Panel member and presented: <i>Privacy in Mobile Cloud</i> , 35th Annual International Computer Software and Applications Conference (COMPSAC 2011), Munich, Germany, July 2012	Int'l
13.	Ahamed, Sheikh I, 24th International Conference on Industrial Engineering and other Applications of Applied Intelligent Systems (IEA-AIE 2011), <i>PryGuard: A Secure Distributed Authentication Protocol for Pervasive Computing Environment</i> , Syracuse, New York, June 2011	Int'l
14.	Ahamed, Sheikh I, Third International Symposium on Quality of Life Technology, <i>A Feature Extraction Method for Real Time Human Activity Recognition on Cell Phones</i> , Toronto, Canada, June 2011	Int'l
15.	Ahamed, Sheikh I, Tanviruzzaman, Mohammad, O'Brien, Casey, Rizia, Rizwana, Third International Symposium on Quality of Life Technology, <i>iFactotum: Sensor-Rich iPhone as a Versatile Tool</i> , Toronto, Canada, June 2011	Int'l
16.	Ahamed, Sheikh I, <i>Pervasive Healthcare</i> , Software Engineering group, Tsinghua University in Beijing, China, March 2011.	Int'l
17.	Ahamed, Sheikh I, The 26th Annual Association for Computing Machinery (ACM) Symposium on Applied Computing, <i>REBIVE: A Reliable Private Data Aggregation Scheme for Wireless Sensor Networks</i> , TaiChung, Taiwan, March 2011	Int'l
18.	Invited talk: <i>Green Computing</i> , Tsinghua University, China, January 2010	Int'l
19.	Colloquium Speaker, <i>A secure middleware for Pervasive/Ubiquitous Computing</i> , University of Georgia, GA, January 2010	National
20.	Keynote Speaker, <i>Towards A secure middleware for Pervasive/Ubiquitous Computing</i> , IEEE ICCIT 2010, Dhaka, December 2010	Int'l
21.	Panel member and presented: <i>Location Privacy</i> , 33rd Annual International Computer Software and Applications Conference (COMPSAC 2009), Seattle, WA, July 2009	National
22.	Invited talk: <i>Vehicle Sensor Network</i> , Douglas Dynamics, LLC, September 2009	Local
23.	Invited talk: <i>Pervasive healthcare</i> , GE healthcare, July 2009	Local
24.	Invited talk: <i>Pervasive Computing</i> , Wisconsin Pharmacal	Local

	Company, LLC, October 2009	
25.	Colloquium Speaker, <i>A secure middleware for Pervasive/ Ubiquitous Computing</i> , University of Bridgeport, CT, September 2009	National
26.	Colloquium Speaker, <i>Towards A secure middleware for Pervasive/ Ubiquitous Computing</i> , University of Illinois at Chicago, IL, June 2009.	National
27.	Invited talk, <i>A secure middleware for Pervasive/ Ubiquitous Computing</i> , Islamic Institute of Technology, Dhaka, Bangladesh, August 2009.	Int'l
28.	Invited talk, <i>Towards a secure middleware for Pervasive/ Ubiquitous Computing</i> , United International University, Dhaka, Bangladesh, August 2009.	Int'l
29.	Invited talk, <i>Towards a secure middleware for Pervasive/ Ubiquitous Computing</i> , Tsinghua University at Beijing, China, which is one of the top ranked University in China, in August 2009.	Int'l
30.	Presented: <i>Towards a secure middleware for pervasive computing</i> , ECE Department, Marquette University, November 11, 2008.	Local
31.	Presented: <i>Towards a secure middleware for Pervasive/ Ubiquitous Computing</i> , Biomedical engineering, April 2008.	Local
32.	Presented: <i>Pervasive healthcare</i> , Marshfield Clinic, May 2008.	Regional

33.	Presented: <i>Middleware for Pervasive Computing Applications</i> , Bangladesh Engineering and Technology, Dhaka, Bangladesh March 2008	Int'l
34.	<i>Middleware for Open and Dynamic Pervasive Computing Environment</i> , Panelist of International Computer Software and Applications Conference (COMPSAC 2007), Beijing, China, July 23-27, 2007	Int'l
35.	<i>Towards security, privacy and trust in Pervasive Computing Applications</i> , Peking University, Beijing, China, July 2007	Int'l
36.	<i>Research Activities of Ubiquitous Computing (UbiComp) Lab</i> to Johnson Control, December 2006	Local
37.	<i>Research Activities of Ubiquitous Computing (UbiComp) Lab</i> to Security Cluster of College of Engineering, November 2006	Local
38.	<i>Future of Mobile computing</i> to High School Students of Milwaukee, August 2006	Local
39.	<i>Research activities of Ubiquitous Computing (UbiComp) Lab</i> , MSCS Department, Marquette University, April, 2005	Local
40.	<i>MARKS (Adaptive Middleware Adaptability for Resource discovery, Knowledge usability and Self-healing)</i> , Department of Computer Science, University of Wisconsin, Milwaukee, December 10, 2004	Local
41.	<i>Challenges of Offshore Outsourcing: Educational Response</i> , 3M project, Marquette University, October 18, 2004. (Co-presenter)	Local

B. Research Support (Including grants and fellowships):

Current grants:

Agency: NIH

Title: American Indian Mhealth Smoking Dependence Study

Goal: Develop mHealth text messages to help American Indians to quit smoking.

The goal of this project is to develop a customized messaging system and reporting system.

\$289,000 (Direct cost only, no indirect cost)

Role: PI for Marquette University

Agency: Healthier Wisconsin Partnership Program (HWPP)

Title: DryHootch iPeer: A Social & Technology Support Program for Veteran Mental Health

Goal: Develop a software system mPeer: Mobile Detection of High Risk Behavior in Veterans – A Sociotechnical Systems Approach, where a veteran can input their daily status and mentors can see daily and weekly status and advise peer veterans.

\$150,000 (Direct cost only, no indirect cost)

Role: PI for Marquette University

Agency: NIDILRR

Title: HESTIA: Development of a multi-facet software evaluation for home reintegration: There is an app for that?

Goal: HESTIA will provide an in-depth multi-faceted assessment to identify problems in the home environment that hamper a person's ability to successfully live as independently as possible. The purpose of this system, and long-term goal of this project, is to get a user friendly, thorough, yet efficient home environment assessment in the hands of therapists to enable living and aging at home. Ubicomp lab will develop the mobile software based on the research and design of R2D2 center and Texas Woman's University.

\$100,000 (Direct and indirect cost)

Role: PI for Marquette University

Agency: CTSI

Title: Prematurity 101: mHealth enhanced prenatal education

Goal: Develop a mHealth educational app containing prematurity-related fetal and neonatal information for parents at risk of premature delivery, and pilot the mHealth app during the prenatal period among parents determined by their obstetric provider to be at risk for premature delivery.

\$20,000 (Direct cost only, no indirect cost)

Role: PI for Marquette University

Past Grants:

1. Title: Efficacy of a m-Health Self-Management Intervention
 Agency: NIH
 Goal: Develop mHealth system to motivate women to have calcium rich food and do exercise to prevent osteoporosis. The goal of this project is to develop a self-management framework for woman.
 \$286,000 (Direct cost only, no indirect cost)
 Role: PI mHealth part of Marquette University

2. Agency: Healthier Wisconsin Partnership Program (HWPP)
 Title Telehealth for Hispanic Community
 Goal: Develop a software system for upload eye image and follow up by doctors and nurses.
 \$20,000 (Direct cost only, no indirect cost)
 Role: PI for Marquette University

3. Agency: CTSI
 Title Telehealth for diababatic retanapathy for Hispanic Community
 Goal: Develop a software system for upload eye image for diabatic retinopathy and follow up by doctors and nurses.
 \$15,000 (Direct cost only, no indirect cost)
 Role: PI for Marquette University

4. Agency: MCW
 Title Community Engagement Software
 Goal: Develop a software system for community engagement monitoring
 \$5,000 (Direct cost only, no indirect cost)
 Role: PI for Marquette University

5. Cross sectional study of cell phone assessments of symptoms in patients with advanced cancer
 International Breast Cancer Research Foundation (IBCRF)
 Sheikh Iqbal Ahamed (PI)
 \$57,253 (Direct cost only, no indirect cost)
 September 1, 2012 – August, 2014
 (Server side was developed using C/C++)

6. Breast Cancer palliation Study Phase III
 International Breast Cancer Research Foundation (IBCRF)
 Sheikh Iqbal Ahamed (PI)
 \$80,000 (Direct cost only, no indirect cost)
 August 1, 2012 – July 31, 2014
 (A pain level detection tool from facial images was developed using C/C++. A computational model were developed and incorporated in the tool)

7. Breast Cancer palliation Study Phase II
 Sponsor; International Breast Cancer Research Foundation (IBCRF)
 Sheikh Iqbal Ahamed (PI)

- \$77,794 (Direct cost only, no indirect cost)
 August 1, 2011 – July 31, 2014
 (A heart rate detection tool from the videos of the fingertip was developed using C/C++. A computational model were developed and incorporated in the tool)
8. Accessibility Compliance Tool (ADA MT)
 NIDDR (Subcontract from University of Wisconsin, Milwaukee)
 Roger Smith (PI) for University of Wisconsin, Milwaukee
 Sheikh Iqbal Ahamed (PI) for Marquette University
 \$95,000 (Direct cost only, no indirect cost)
 March 1, 2012 – September 30, 2014
 (Light meter, sound meter, font meter, slope meters were deve using C/C++.
 Computational model were developed and incorporated in the tool)
 9. WiFi Locator (Grant #75677)
 Sheikh Iqbal Ahamed (PI)
 \$79,025 (Direct cost and indirect cost)
 March 1, 2010 – December 31, 2012
 (Localization techniques and computational models were developed from the
 signal strength. It is used to locate the patents of dementia. It was developed
 using C/C++).
 10. Deployment of E-ESAS for Breast Cancer palliation Study
 (Best poster award in Forward Thinking)
 International Student Office, Marquette University
 Sheikh Iqbal Ahamed (PI)
 \$1,500 (Direct cost only, no indirect cost)
 January 1, 2012 – July 31, 2012
 11. Breast Cancer palliation Study Phase 1 (Grant# 7468)
 International Breast Cancer Research Foundation (IBCRF)
 Sheikh Iqbal Ahamed (PI)
 MU received: \$35,000 (Direct cost only, no indirect cost)
 Travel grant to visit the deployment site: \$12,000
 Equipment: \$6,000
 August 1, 2010 – July 31, 2011
 12. Breast Cancer palliation Study (Best poster award in Forward thinking)
 ORSP and College of Arts and Sciences, Marquette University
 Sheikh Iqbal Ahamed (PI)
 \$2000 (Direct cost only, no indirect cost)
 January 1, 2011 – July 31, 2011
 13. Safety Check list (Grant #75677)
 Sponsor: Seymour Automation, LLC
 Sheikh Iqbal Ahamed (PI)
 \$5,500 (Direct cost and indirect cost)
 January 1, 2010 – July 31, 2010

14. Travel grant: \$700 as Faculty development award for presenting paper at M4D, February 2012
15. Travel grant: \$700 as Faculty development award for presenting paper at ACM Symposium on Applied Computing, March 2011
16. Travel grant: \$300 as Faculty development award for presenting paper at 7th Annual IEEE International Conference on Pervasive Computing and Communications in Galveston, Texas, March 9 – 13, 2009
17. Received the Way-Klinger Young Scholars Award for 2008. (One-semester sabbatical for doing research and additional funding for travel. Award amount: \$32,000)
18. Travel grant: \$700 as Faculty Development Award for presenting paper at the COMPSAC, July 2007 from the office of Vice Provost for Research and Graduate Program, Marquette University
19. Faculty development grant: \$1900 as Faculty development award for presenting paper at the 22nd Annual ACM Symposium on Applied Computing (7), March 2007, from the office of Vice Provost for Research and Graduate Program, Marquette University
20. Summer faculty fellowship Award: \$5,500 from Graduate school, Marquette University summer 2006 for developing a new model for security and trust for pervasive computing
21. 3M Faculty Development Award: \$700 from the 3M research project, Marquette University 2006 for international travel and organizing a panel for software engineering project in global environment
22. Travel grant: \$600 as Faculty Development Award for presenting paper at the 21st Annual ACM Symposium on Applied Computing (ACM SAC 2006), April 2006 from the office of Vice Provost for Research and Graduate Program, Marquette University
23. 3M Faculty Development Award: \$5,500 from the 3M research project, Marquette University summer 2005 for developing a new model *for software engineering project in global environment*
24. Microsoft Equipment Grant from *Microsoft Mobility Research Group*: 4 PDAs and 4 Smart phones. 2006, approximate value \$5,000
25. Travel grant: \$700 as Faculty Development Award for presenting paper at the SAC, April 2006 from the office of Vice Provost for Research and Graduate Program, Marquette University
26. Travel grant: \$400 as Faculty Development Award for presenting paper at the International Conference on Information Technology ITCC 2005, April 2005

from the office of Vice Provost for Research and Graduate Program, Marquette University

27. Travel grant: \$400 as Faculty Development Award for presenting paper at the International Conference on Information Technology ITCC 2004, April 2004 from the office of Vice Provost for Research and Graduate Program, Marquette University
28. Co-PI for an internal of grant \$4,500 for establishment of a lab in the College of Communications of Marquette University for developing and investigating pervasive computing applications for extending education (Dr. Michael Havice is the PI for this project.)
29. Faculty Development Award: \$4,500 from the College of Arts and Sciences, Marquette University, summer 2004

E. Other:

1. Steering Committee Chair, IEEE COMPSAC, IEEE Computer Society's Signature Conference on Computers, Software and Applications, Appointed. 2015-2017 (It is an academic/industry conference with 400+ affiliated researchers. Steering Committee Chair is second position from the top)
2. Standing Committee, IEEE COMPSAC, IEEE Computer Society's Signature Conference on Computers, Software and Applications, Appointed. (January 2014 - Present)
3. Steering Committee, 36th IEEE COMPSAC, Appointed. (September 2011 - Present)
4. Organizer, The 7th IEEE International Workshop on Security, Trust, and Privacy for Software Applications (STPSA 2012). (September 2005 - Present)
5. Session Chair & contributing author, USAB 2011 - Information Quality in e-Health, Graz, Austria. (November 2011)
6. Editor, Conference Proceedings, 35th IEEE Annual International Computer Software and Application. (March 2010 - August 2011)
5. Program Committee Chair, COMPSAC 2011, Munich, Germany. Managed the review process of 180 papers with the help of 137 PC members from 30 countries. Each paper had at least 3 reviews.
6. Workshops Chair of the 34th COMPSAC, 2010), Seoul, Korea (Reappointed because of excellent performance in 2009)

Selected 14 workshop proposals from 20 workshop proposals

Managed 14 workshops. Each workshop had its own program committee. There were 300+ submissions in all workshops. Selected

80 papers with the help of 14 workshop program committee

7. Guest Editor of Special Issue on *Information and Future Communication Security*, Computer Communications indexed by SCI-E (Elsevier), 2010
8. Program Co-Chair of the International Workshop on Security, Privacy, and Trust for Software Applications (STPSA 2010) in Conjunction with 34th Annual International Computer Software and Applications Conference (COMPSAC 2010), Seoul, Korea, July 2010. (Sponsored by IEEE Computer Society.)

Reviewed 4 papers
Managed the review process of 25 papers with the help of t30 faculty and researchers of different universities of USA, Canada and Australia
9. Program Committee of COMPSAC 2010, Seoul, Korea

Reviewed 7 long papers
10. Program Committee of the IEEE Service Oriented Computing Conference (SCC 2010), September 2010, Sponsored by IEEE Computer Society.

Reviewed 3 papers
11. Reviewed one journal paper of IEEE Transactions on mobile computing
12. Reviewed one journal paper of IEEE Transactions on Services Computing.
13. Guest Editor of Special Issue on "Information and Future Communication Security", Computer Communications indexed by SCI-E (Elsevier), 2010.
14. Workshops Chair, 34th Annual IEEE International Computer Software and Applications Conference (COMPSAC 2010), Korea, July 2010.
15. Guest Editor of Special Issue on *Advanced Mobile Applications and Intelligent Multimedia systems for Ubi-Com*, Mobile Networks and Applications indexed by SCI-E (Springer), 2009/2010
16. Guest Editor: of Special Issue on *Special Issue on Intelligent Multimedia System and Data Management for Ubi-Com*, COMPUTING AND INFORMATIONS indexed by SCI-E (Springer), 2009
17. Workshops Chair, 33rd Annual IEEE International Computer Software and Applications Conference (COMPSAC 2009), Seattle, WA, July 20 – 24, 2009

Selected 15 workshop proposals from 20 workshop proposals.
Managed 15 workshops. Each workshop had its own program committee. There were 250+ submissions in all workshops. Selected 70 papers with the help of 15 workshop program committee.
18. Program Co-Chair, The 3rd IEEE International Workshop on Web and Pervasive Security (WPS 2009) in PerCom2009

19. Program Co-Chair of *The 3rd IEEE International Workshop on Web and Pervasive Security (WPS 2009)*, Houston, TX, March 2009, (Sponsored by IEEE Computer Society.)

Managed the review process of 20 papers with the help of twenty faculty and researchers of different universities of USA, Canada and Australia.
20. Program Co-Chair of the International Workshop on Security, Privacy, and Trust for Software Applications (STPSA 2009) in Conjunction with 33rd Annual International Computer Software and Applications Conference (COMPSAC 2009), Seattle, July 2009, (Sponsored by IEEE Computer Society.)

Reviewed 4 papers.
Managed the review process of 20 papers with the help of thirty faculty and researchers of different universities of USA, Canada and Australia.
21. Program Committee of the 33rd IEEE Annual International Computer Software and Applications Conference (COMPSAC 2009). Seattle, WA. Sponsored by IEEE Computer Society.

Reviewed 6 long papers.
22. Program Committee of the IEEE Service Oriented Computing Conference (SCC 2009), September 2009. Sponsored by IEEE Computer Society.

Reviewed 3 papers
23. Program Co-Chair of the International Workshop on Security, Privacy, and Trust for Software Applications (STPSA 2008) in conjunction with 32nd Annual International Computer Software and Applications Conference (COMPSAC 2008), Turku, Finland, July 2008. (Sponsored by IEEE Computer Society.)

Reviewed 4 papers.
Managed the review process of 16 papers with the help of thirty faculty and researchers of different universities of USA, Canada and Australia.
24. Track co-chair for middleware track of The 23rd Annual ACM Symposium on Applied Computing (ACM SAC 2008), March 2008. (Sponsored by IEEE Computer Society.)

Reviewed 2 papers.
Managed the review process of 16 papers with the help of twenty faculty and researchers of different universities of USA, Canada and Australia
25. Security track chair of the 32nd IEEE Annual International Computer Software and Applications Conference (COMPSAC 2008), Turku, Finland. (Sponsored by IEEE Computer Society.)

Managed reviews of 15 papers
26. Program Committee of the 32nd IEEE Annual International Computer

Software and Applications Conference (COMPSAC 2008). Turku, Finland
(Sponsored by IEEE Computer Society.)

Reviewed 10 long papers

Served as a Program Committee of the IEEE Service Oriented
Computing Conference (SCC 2008). September 2008, Sponsored by
IEEE Computer Society

Reviewed 3 papers

27. Reviewed one journal paper as a Member, Editorial board of International
Journal of Network Security 2005-2006
28. Reviewed one journal paper of Journal of System and Software, Elsevier, 2007
29. Reviewed one journal paper of IEEE Transactions on Systems, Man, and
Cybernetics--Part C: Application
30. Reviewed one journal paper of IEEE Transactions on Mobile Computing
31. Reviewed one journal paper of IEEE Transactions on Services Computing
32. Serving as a Workshop Program Co-Chair, International Workshop on
Security, Trust, and Privacy for Software Applications (STPSA 2007) in
conjunction with 31st Annual International Computer Software and
Applications Conference (COMPSAC 2007), Beijing, China, July 2007

Reviewed 3 papers.
Edited and managed the review process of 24 papers with the help of 20
faculty and researchers of different universities of USA, Canada and
Australia
33. Served as a Track Co-Chair, Autonomic Computing of The 22nd Annual ACM
Symposium on Applied Computing (ACM SAC 2007), Seoul, Korea, March
2007

Reviewed 2 papers
Edited and managed the review process of 16 papers with the help of 15
faculty and researchers of different universities of USA, Canada and
Australia
34. Served as a Track chair for the pervasive computing track of Fifth International
Conference on Information Technology: New Generations, ITNG 2007, April
2007. (Sponsored by IEEE Computer Society.)

Reviewed 1 paper
Edited and managed the review process of 8 papers with the help of six
faculty and researchers of different universities of USA, Canada, and
Australia as a Track Chair of ITNG
35. Serving as a Program Committee of the 31st IEEE Annual International Computer
Software and Applications Conference (COMPSAC 2007), China, September
2007 (Sponsored by IEEE Computer Society.)

Reviewed 16 long papers.

36. Reviewed one journal paper of IEEE Transactions mobile computing, 2007
37. Reviewed one journal paper of IEEE Transactions Vehicular Technology, 2007
38. Served as a Program Committee of the IEEE Service Oriented Computing Conference (SCC 2007), Salt Lake City, July 2007 (Sponsored by IEEE Computer Society)

Reviewed 4 papers

39. Served as a Program Committee of the IEEE International Conference on Pervasive Services (ICPS), Istanbul, Turkey July 2007 (Sponsored by IEEE Computer Society)

Reviewed 6 papers

40. Served as a Workshop Program Co-Chair of the International Workshop on Security, Privacy, and Trust for Pervasive Computing Applications (SPTPA 2006) in conjunction with 30th Annual International Computer Software and Applications Conference (COMPSAC 2006), Chicago, IL, September 2006. (Sponsored by IEEE Computer Society.)

Reviewed 4 papers.

Edited and managed the review process of 30 papers with the help of thirty faculty and researchers of different universities of USA, Canada and Australia.

41. Served as a track chair for the pervasive computing track of Fourth International Conference on Information Technology: New Generations, ITNG 2006, April 2006, (sponsored by IEEE Computer Society)

Reviewed 3 papers

Edited and managed the review process of 15 papers with the help of six faculty and researchers of different universities of USA, Canada and Australia as a Track Chair of ITNG

42. Served as Workshop Co-Chair, International Workshop on Pervasive Computing Systems and Applications, within the 4th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2006), Dubai, UAE

Reviewed 2 papers

43. Edited and managed the review process of 20 papers with the help of thirty faculty and researchers of different universities of USA, Canada and Australia
44. Served as a Program Committee of the 30th IEEE Annual International Computer Software and Applications Conference (COMPSAC 2006), Chicago, IL, September 2006 (Sponsored by IEEE Computer Society)

Reviewed 10 long papers and 1 short paper

45. Served as a Program Committee of the IEEE Service Oriented Computing Conference (SCC 2006), Chicago, IL, September 2006. (Sponsored by IEEE Computer Society.)

Reviewed 5 papers.

46. Served as a Program Committee of the 9th International Conference on Computer and Information Technology (ICCIT), Dhaka, Bangladesh, December 2006

Reviewed 4 papers

Edited and managed the review process of 15 papers with the help of three researchers as a Program Committee member of ICCIT

47. Served as a Program Committee of the IEEE International Conference on Pervasive Services 2006, France

Reviewed 6 long papers and 4 short papers

48. Served as a Program Committee, Computer Society of India 41st National Annual Convention CSI-2006, November 23-25, 2006, Science City, Kolkata, India

49. Reviewed four papers as a Program Committee of the International Workshop on Wireless and Sensor Networks (WSNET 2006), Ohio State University, OH

50. Reviewed one paper as a Program Committee of the First International Workshop on Trustworthiness, Reliability and services in Ubiquitous and Sensor neTworks '06 (TRUST '06)

51. Reviewed three journal papers of paper as a Member, Editorial board of International Journal of Network Security, 2005-2006

52. Reviewed one journal paper of Journal of System and Software, Elsevier, 2006

53. Reviewed one journal paper of IEEE Transactions on Systems, Man, and Cybernetics--Part C: Application, 2006

54. Served as a track chair for the pervasive computing track of International Conference on Information Technology (ITCC), Las Vegas, NV, April 2005 (Sponsored by IEEE Computer Society)

Reviewed 4 papers.

55. Edited and managed the review process of 24 papers with the help of six faculty and researchers of different universities of USA, Canada and Australia as a Track Chair of ITCC, 2005

56. Served as a Program committee for the 29th IEEE Annual International Computer Software and Applications Conference (COMPSAC 2005), Edinburgh, August 2005 (Sponsored by IEEE Computer Society)

Reviewed 5 long paper and 10 short papers

57. Edited and managed the review process of 25 papers with the help of six faculty and researchers of different universities of USA, Canada and Australia as a

Program committee member of COMPSAC 2005

58. Reviewed four papers as a Program Committee, International Workshop on Wireless and Sensor Networks (WSNET 2005), University of Oslo, Norway
59. Reviewed two papers as a Program Committee, First International Workshop on Mobile Ad-hoc and Ubiquitous Sensor Networks (MASN 2005), Nanjing University, China
60. Served as a Program committee for the 28th IEEE Annual International Computer Software and Applications Conference (COMPSAC 2004). Hong Kong, September 28-30, 2004 (Sponsored by IEEE Computer Society)

Reviewed 4 long papers and 8 short papers
Edited and managed the review process of 30 papers with the help of six faculties and researchers of different universities of USA, Canada and Australia as a Program committee member of COMPSAC 2004

61. Reviewed a journal paper for Journal of Interconnection Networks (JOIN)
62. Reviewed two papers of the 2004 International Conference on Embedded Systems and Applications, CSREA Press
63. Refereed two papers for Future Trend in Distributed Computing Systems 2003
64. Refereed a paper for Computer Software and Applications 2003
65. Reviewed a text book on *Java Programming for CS2*, Addison-Wesley Publishing Company in 2003
66. Reviewed a text book on *Object Oriented Design and Data Structure*, John Wiley & Sons, Inc. in 2002
67. Reviewed a text book on *Systematic Programming for CS2*, Jones and Bartlett Publishers in 2002

B. **TEACHING ACTIVITIES DATA (Related to research)**

Have offered 140 independent study courses (MSCS 6995) that are related to research in pervasive computing, mHealth and security area

Supervised 45 MS thesis/Essay and 16 PhD dissertations

Dissertation Committee Chair (16)

- 1) Jiachen Ma, January 2017-May 2021
- 2) Fitrat Hossain, August 2016-May 2020
- 3) Drew Williams, August 2015-May 2019

- 4) Md Hasan, January 2015 - May 2019
- 5) Mohammad Balfas, August 2015 - May 2019
- 6) GM Tanim, August 2011 - May 2017
- 7) Osman Gani, August 2011 - May 2017
- 8) Ivor Addo, May 2013 - May 2016
- 9) Jahangir Alam, August 2011 - May 2016
- 10) Niharika Jain, August 2011 - May 2015
- 11) Mohammad Adibuzzaman, August 2010 - May 2015
- 12) Rizwana Rizia, August 2010 - May 2015
- 13) Ferdaus Kawsar, August 2009 - May 2015
- 14) Md. Tanviruzzaman, January 2009 - May 2014
- 15) Md. Munirul Haque, August 2009 - May 2013
- 16) Farzana Rahman, August 2008 - May 2013

Master's Thesis/Essay Supervisors (45)

- 1) Jiayi Xin, December 2015 - May 2017
- 2) Tanvir Roushan, August 2015 - May 2017
- 3) ABM Patwary, January 2014 - December 2016
- 4) Nadiyah Johnson, May 2014 - May 2016
- 5) Taskina Fayezeen, May 2014 - May 2016
- 6) Drew Williams, October 2013 - May 2014
- 7) Duc Do, August 2015-May 2015
- 8) Miftah Uddin, January 2012 - December 2013
- 9) David Polyak, August 2011 - December 2013
- 10) Casey O'brien, August 2011 - September 2013
- 11) Golam Ahsan, August 2013

- 12) Md Osman Gani, August 2013
- 13) AKM Jahangir Alam Majumder, May 2013
- 14) Rizwana Rizia, May 2013
- 15) Colin Ostberg, December 2012 - May 2013
- 16) Aaron Zaffke, August 2012 - May 2013
- 17) Andrew Lize, December 2012
- 18) Erik Musselman, July 2012
- 19) Nilothpal Talukder, 2004-2006
- 20) Shameem Ahmed, 2004-2006
- 21) Moushumi Sharmin, 2004-2006
- 22) David Polyak, 2011 – 2013
- 23) Weiqiang Wang, August 2012
- 24) Ferdous Kawsar, 2009 - 2011
- 25) Endadul Hoque, in August 2010,
- 26) Farzana Rahman, August 2010
- 27) Chowdury Sharif Hasan, August 2010,
- 28) Nick McGinness, Graduated in May 2009
- 29) Sergey Belyankin, Graduated in May 2009
- 30) Justin Swanson, May 2009
- 31) Sazzad Hossain, August 2009
- 32) Karl Stamm, December 2008
- 33) K.M. Asif, December 2008
- 34) Nilothpal Talukder, December 2008
- 35) Mark Centgraf, Chasqui: December 2008

- 36) Anahita Vyas, December 2007
- 37) Md. Haque, May 2007.
- 38) Haifeng Li, August 2007
- 39) Shameem Ahmed, July 2006.
- 40) Moushumi Sharmin, June 2006.
- 41) Sang Kim, May 2006.
- 42) Steven Wolfe, May 2005
- 43) Suresh Anamanamuri, May 2005.
- 44) Golnaz Y. Rahmatabadi, May 2004.

Undergraduate Research:

Supervised 31 undergraduate research/senior design projects

XI. SERVICE ACTIVITIES DATA

Served on many college and department committees (such as graduate committee, undergraduate committee, computer support committee, comprehensive exam committee, patent board, community engagement)