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Short Bio: *M. Shamim Hossain* is An Associate Professor at the King Saud University, Riyadh, KSA. Dr. Shamim is also holds Adjunct Professor, School of Electrical Engineering and Computer Science (EECS), University of Ottawa, Canada. Dr. Shamim Hossain received his Ph.D. in Electrical and Computer Engineering from the University of Ottawa, Canada. His research interests include Cloud networking, smart environment (smart city, smart health), social media, IoT, edge computing and multimedia for healthcare, and big data. He has authored and coauthored around 150 publications including refereed IEEE/ACM/Springer/Elsevier journals, conference papers, books, and book chapters. He has served as a member of the organizing and technical committees of several international conferences and workshops. He has served as co-chair, general chair, workshop chair, publication chair, and TPC for over 12 IEEE and ACM conferences and workshops. Currently, he serves as a founding co-chair of the IEEE ICME workshop on Multimedia Services and Tools for smart-health MUST-SH 2018. He is a recipient of a number of awards including, the Best Conference Paper Award, the 2016 *ACM Transactions on Multimedia Computing, Communications and Applications (TOMM) Nicolas D. Georganas Best Paper Award*, and the Research in Excellence Award from King Saud University. He is on the editorial board of *IEEE Access*, *Computers and Electrical Engineering (Elsevier)*, *Games for Health Journal*, and *International Journal of Multimedia Tools and Applications (Springer)*. Currently, he serves as a lead guest editor of IEEE Communication Magazine, IEEE Transactions on Cloud Computing, Future Generation Computer Systems (Elsevier), and IEEE Access. Previously, he served as a guest editor of IEEE Transactions on Information Technology in Biomedicine (currently JBHI), International Journal of Multimedia Tools and Applications (Springer), Cluster Computing (Springer), Future Generation Computer Systems (Elsevier), Computers and Electrical Engineering (Elsevier), Sensors (MDPI), and International Journal of Distributed Sensor Networks. Dr. Shamim is a Senior Member of IEEE, a member of ACM and ACM SIGMM.

CURRICULUM VITAE

a) NAME:

Hossain, M. Shamim, Associate Professor, SM'IEEE, and Adjunct Prof., EECS, U Ottawa, Canada
College of Computer and Information Sciences (CCIS)
King Saud University, Riyadh 11543, Saudi Arabia
Email: mshossain@ksu.edu.sa, shamim@mcrlab.uottawa.ca
Web: <http://faculty.ksu.edu.sa/shamim/default.aspx>

b) DEGREES:

Ph.D. in ECE, EECS, University of Ottawa, 2009
M.Sc. in Computer Science EECS, upgraded to Ph.D. due to outstanding performance, 2004
B.Eng. in Computer Science and Engineering, Khulna University, Khulna 1995

c) EMPLOYMENT HISTORY:

02/2014- Present	Associate Professor, Software Engg. Dept. CCIS, King Saud University, Saudi Arabia
01/2017- Present	Adjunct Professor, School of Electrical Engineering and Computer Science (EECS), University of Ottawa, Canada,
04/2010-02/2014	Assistant Professor Software Engg. Dept. CCIS, King Saud University, Saudi Arabia
05/2009-03/2010	Post Doc Research Associate and Lab Manager, MCRLab, University of Ottawa, Canada
09/2002- 04/2009	Research Assistant and Lab Manager, MCRLab, University of Ottawa, Canada
06/1996- 08/2002	Undergraduate Program Coordinator and Lecturer, IUT, Dhaka, Bangladesh
06/1998–12/1998	Visiting Researcher, Central Queensland University, Australia

d) ACADEMIC HONOURS:

2017	Excellence in Research Award 2017, CCIS, King Saud University, Riyadh, Saudi Arabia
2016	ACM TOMM Nicolas D. Georganas Best Paper Award
2016	Best Paper Award, CLOUDCOMP 2016
2016	Excellence in Research Award 2016, CCIS, King Saud University, Riyadh, Saudi Arabia
2014	Outstanding paper award for “QoS in Web Service-based Collaborative Multimedia Environment” in IEEE ICACT’2014, Phoenix Park, South Korea, Feb 16-19, 2014
2013	IEEE Recognition for outstanding organization of HAVE 2013
2009	Nominated for the Best Ph.D. Thesis Prize, University of Ottawa, Ottawa, Canada
2009	IEEE recognition as IEEE Senior Member
2006	Best Demo Award at the 2006 annual Intelligent Interactive Learning Object Repositories Conference (I2LOR-2006), Montreal Canada
2006-2008	Ontario Graduate Scholarship (OGS) (15000 CAD/Annum Two times)
2004-2007	University of Ottawa Graduate Admission Scholarship (PhD)

PROFESSIONAL ASSOCIATIONS

Senior Member, Institute of Electrical and Electronic Engineers (SM’IEEE)
P.Eng. Ontario (in Process)
Member, Association for Computing Machinery (ACM)
Member, IEEE Instrumentation and Measurement Society
Member, IEEE Communication Society
Member, IEEE Computer Society
Member, IEEE Technical Committee on Multimedia Communications (MMTC)
Member, IEEE Cloud Computing Community
Member, IEEE Computer Society Technical Community on Cloud Computing
Member, IEEE Internet of Things Community
Member, IEEE Computer Society Technical Committee on Scalable Computing
Member, IEEE Smart Cities Community
Member, IEEE Green ICT Community
Member, IEEE Smart Grid Community
Member, IEEE Computational Intelligence Society
Member, IEEE Engineering in Medicine and Biology Society Membership
Member, Professional Engineers of Ontario (Passed Ethics and Law) (now in Process)

e) SCHOLARLY AND PROFESSIONAL ACADEMIC ACTIVITIES:

1) Editorial activities

2017	Lead Guest Editor , Elsevier Future Generation Computer Systems, SI: The convergence of the Internet of Things and Cloud for Smart Healthcare
2017	Lead Guest Editor , Springer Multimedia tools and Applications, SI: Multimedia for Smart Healthcare
2017	Lead Guest Editor , IEEE Communication magazine, SI: Advances of Next-Generation networking Technologies for Smart Healthcare.
2016	Lead Guest Editor , IEEE Communication magazine, SI: Impact of Next-Generation Mobile Technologies on IoT-Cloud Convergence
2016	Lead Guest Editor , IEEE Transactions on Cloud Computing, SI: Advances of Multimedia Big Data on the Cloud
2016	Lead Guest Editor , Springer Multimedia tools and Applications, SI: Advances in Next Generation Multimedia Services and Applications: Impact of Cloud and Social Media

- 2016 **Lead and Only Guest Editor**, Springer Multimedia tools and Applications, SI: Multimedia for Smart Healthcare
- 2016- **Associate Editor**, Games for Health Journal
- 2016- **Associate Editor**, IEEE Access
- 2016- **Associate Editor**, Elsevier Computers & Electrical Engineering
- 2016 **Lead Guest Editor**, SENSORS (MDPI), SI: Multisensory Big Data Analytics for Enhanced Living Environments
- 2016 **Lead Guest Editor**, Elsevier Future Generation Computer Systems, SI: Cloud-Based Multimedia Services for healthcare and other related applications
- 2016 **Lead Guest Editor**, Elsevier Computers & Electrical Engineering, SI: Multimedia Services for E-health
- 2015 **Lead Guest Editor**, Springer Cluster Computing, SI: Advances in Multimedia-based Cloud-Computing for Healthcare
- 2015 **Lead Guest Editor**, International Journal of Distributed Sensor Networks, SI: Advances in Multimedia Sensor Networks for Health-Care and Related Applications
- 2015 **Lead Guest Editor**, Springer Multimedia tools and Applications, SI: Advances in Multimedia for Health
- 2013 – Present **Editorial board member**, Springer Multimedia tools and Applications (MTAP)
- 2012 **Lead Guest Editor**, IEEE Transactions on Information Technology in Biomedicine, SI: Multimedia Services and Technologies for E-health

2) **Conference Organization Chair and invited talks**

- 2018 **Co-Chair**, IEEE Intl Workshop on Multimedia Services and Technologies for smart-health (MUST-SH 2018) to be held with IEEE ICME 2018, USA
- 2017 **Co-Chair**, 7th IEEE Intl Workshop on Multimedia Services and Technologies for E-health (MUST-EH 2017) to be held with IEEE ICME 2017, Hong Kong
- 2016 **Co-Chair**, 6th IEEE Intl Workshop on Multimedia Services and Technologies for E-health (MUST-EH 2016) to be held with IEEE ICME 2016, Seattle, USA.
- 2015 **Co-Chair**, 5th IEEE Intl Workshop on Multimedia Services and Technologies for E-health (MUST-EH 2015) held with IEEE ICME 2015, Torino, Italy.
- 2014 **Co-Chair**, 4th IEEE Intl Workshop on Multimedia Services and Technologies for E-health (MUST-EH 2014) held with IEEE ICME 2014, Chengdu, China.
- 2013 **Co-Chair**, 3rd IEEE Intl Workshop on Multimedia Services and Technologies for E-health (MUST-EH 2013) held with IEEE ICME 2013, San Jose, CA, USA
- 2012 **Co-Chair**, 2nd IEEE Intl Workshop on Multimedia Services and Technologies for E-health (MUST-EH 2012) held with IEEE ICME 2012 Melbourne, Australia.
- 2015 **Co-Chair**, 1st IEEE Intl Workshop on Multimedia Services and Technologies for E-health (MUST-EH 2011) held with IEEE ICME 2011, Barcelona, Spain.
- 2012 **Chair**, 1st ACM Multimedia Workshop on Cloud-Based Multimedia Applications and Services for E-health, November 2012, Nara, Japan
- 2012 “Cloud-based media service management for emerging applications”. Invited talk at the Workshop on Next Generation Multimedia Research & Development, Abu Dhabi, May 2-3, 2012

3) **Program committee member**

1. International Conference on Cloud Computing and Big Data (CCBD 2016) Chengdu, Sichuan, China
2. International Conference on Cloud Computing and Big Data (CCBD 2015), November 4th-6th, 2015, Taipei. Taiwan.
3. Gamedays, 2011-2016
4. ACM Multimedia Workshop on Serious Games, 2014

5. International Symposium on Emerging Inter-networks, Communication and Mobility (EICM'2014)
6. MCIT 2010, ISSPA 2010

f) **GRADUATE SUPERVISIONS:**

Completed: 1 MSC.
In progress: 2 MSC

NAME OF STUDENTS supervised within the past eight years, title of thesis or project (specify), and both month and year of first registration and year of completion:

MSC

1. Mohammed Albaqawi (MSC), “Service provisioning of social media big data on cloud” Sep 2015 – completed
2. Ahmad Alshomar, (MSC), “ Service Provisioning of Social Media Big Data on Cloud”, 2016-
3. Bader Alqasem, (MSC), “Detecting and Tracking Arabic Abuse in Social Media”, 2016-

g)

1) **GRADUATE COURSES:**

2014-2015 Software Testing and Quality (SWE 505) / (CSI5118 : Automated verification and Validation of Software (U Ottawa)

2014-2015 Software Usability Engineering (SWE 509) / (CSI5122: Software Usability (U Ottawa)

2015-2016 Software Usability Engineering (SWE 509) /CSI 5122: Software Usability (U Ottawa)

2016-2017 Multimedia System (SWE 518)/ ELG 5121 Multimedia Communications (U Ottawa)

1) **UNDERGRADUATE COURSES:**

As a Professor, Software Engineering Dept, CCIS, King Saud University

Human Computer Interactions (SWE 482)

Software Testing and Validations (SWE 434)

Software Project Management (SWE 466)

Introduction to Software Engineering (SWE 211)

Graduation Project I (SWE 496)

Graduation Project II (SWE 497)

As a TA and Lab Instructor in SITE, University of Ottawa, Ottawa, Canada

Analysis and Design for User Interfaces (SEG 3120)

Software Quality Assurance (SEG 3203)

Communication and Networking (SEG 3255)

Introduction to Computing I (ITI 1220)

Computing Concepts for Business (CSI 1301D)

Data Structures and Algorithms (CSI 2114)

Engineering Computation (GNG 1101 D A)

SEG: Software Engineering, CSI: Computer Science

h) **EXTERNAL RESEARCH FUNDING:**

<u>Names</u>	<u>Funding Agency-Title of Project</u>	<u>Year</u>
<i>M. Shamim Hossain</i>	National Science, Technology and Innovation	2013 – 2015

	Plan (NSTIP) KACST, Saudi Arabia: Novel pervasive computing approach to Counter and Manage Obesity in KSA	
<i>M. Shamim Hossain</i>	NSTIP : Enabling Cloud-based Mobile Multimedia Services in KSA	2013 –
<i>M. Shamim Hossain</i>	NSTIP : Seamless Integration of Body Sensor Networks and Cloud Computing for Pervasive Healthcare	2015-
<i>M. Shamim Hossain,</i> G. Muhammad.	Deanship of Scientific Research (DSR), King Saud University (KSU) Group Project: Haptics-based Health Monitoring and Learning Research	2013 –
G. Muhammad and <i>M. Shamim Hossain</i>	DSR, RGP : Multimodal Healthcare System Research Group	2015 –
<i>M. Shamim Hossain,</i> C. Xu, Chinese Academy of Science, China	International Research Group (IRG) : Social Event Mining in Cross-Domain Multimedia Platforms	2015 –
<i>M. Shamim Hossain</i>	Research Centre (RC), CCIS, Efficient resource allocation for QoS-aware big data processing in cloud environment	2015 –

j) PUBLICATIONS:

1) Life-time summary (count) according to the following categories:

- Books authored.....	6
- Chapters in books	3
- Papers in refereed journals	85
- Papers in refereed conference proceedings.....	32

Total 125

Books authored:

- B.1. G. Muhammad, and *M. Shamim Hossain*, “Digital Speech Processing: Applications to Arabic Language,” 2017
B.2. *M. Shamim Hossain*, Operating Systems. Open University, 1998, pp.1- 260, ISBN 984-34-4001-1
B.3. A. Sadat and *M. Shamim Hossain*, Digital Systems and Computer Organizations. Open University, 1998, pp. 99-132, ISBN 984-34-4001-1.
B.4. G. Uddin and *M. Shamim Hossain*, Successful Study Skills: a guide for students new to Distance Education. J. Dekkers Ed., Central Queensland University, Rockhampton, Australia, 1998
B.5. *M. Shamim Hossain*, S. Haque, G.K. Karmakar and Z. Swapon, Office Automation. Open University, 1997, pp. 1-145, ISBN 984-34-4002-1.

Chapters in books:

- CH.1. *M. Shamim Hossain* and A. El Saddik, "Multimedia content repurposing in wireless environment," in Encyclopedia of Wireless and Mobile Communications, Borko Furht Ed. CRC Press, Taylor & Francis Group, 2007.

- CH.2.A. El Saddik and **M. Shamim Hossain**, "Multimedia Streaming for wireless communication," in Encyclopedia of Wireless and Mobile Communications, Borko Furht Ed. CRC Press, Taylor & Francis Group, 2007.
- CH.3.El Saddik and **M. Shamim Hossain**, "Multimedia Content Repurposing" in Encyclopedia of Multimedia," Borko Furht Ed. Springer Book Series, Feb. 2006

Papers in refereed Journals- **IF** means **ISI-Indexed Impact Factor** from **Thomson Reuters**,

*** Corresponding author**

- J120 M. Shamim Hossain***, G. Muhammad, "Emotion-Aware Connected Healthcare Big Data," *IEEE Internet of Things Journal*, DOI : 10.1109/JIOT.2017.2772959.[IF: 7.596, **Q1**]
- J119 M. Shamim Hossain***, Ghulam Muhammad, "Verifying the Images Authenticity in Cognitive Internet of Things (CIoT)-Oriented Cyber Physical System," *Mobile Networks and Applications*, 10.1007/s11036-017-0928-4, 2017. [IF: 3.259, **Q1**]
- J118 M. A. Rahman and M. Shamim Hossain***, "M-Therapy: A Context-Aware Big Data Multimedia Framework for in-Home Mobile Therapy Management: A Social Internet of Things Perspective," *IEEE Internet of Things Journal*, 2017. DOI: 10.1109/JIOT.2017.2776150.[IF:7.596, **Q1**]
- J117 -----M. A. Rahman and M. Shamim Hossain*** et al." Vulnerability Analysis for Authentication Protocols in Trusted Computing Platform and Proposed Enhancement to OffPAD Protocol, *IEEE Access*, vol. PP, no. 99, pp. 1-14, [IF: 3.244, **Q1**]
- J116 M. Al-Qurishi, M. Shamim Hossain***, M. Alrubaian, S. M. M. Rahman and A. Alamri, "Leveraging Analysis of User Behavior to Identify Malicious Activities in Large-scale Social Networks," *IEEE Transactions on Industrial Informatics*, vol. PP, no. 99, pp. 1-14, 2017. DOI: 10.1109/TII.2017.2753202. [IF: 6.764, **Q1**]
- J115 M. Shamim Hossain***, and M. A Rahman, "Towards Energy-Aware Cloud-Oriented Cyber-Physical Therapy System," *Future Generation Computer Systems*, 10.1016/j.future.2017.08.045, 2017. [IF: 3.997, **Q1**]
- J114 M. Shamim Hossain***, G. Muhammad, and A. Alamri, "Smart Healthcare Monitoring: A Voice Pathology Detection Paradigm in Smarter Cities" ACM/Springer Multimedia Systems, 2017, DOI: 10.1007/s0053 [IF: 2.207, **Q1**]
- J113 M. Shamim Hossain***, G. Muhammad M. Hoda, A. Alamri, "Cloud-supported Serious Games framework for the patients with post stroke disability rehabilitation," *Telematics-and-Informatics*, 2017. [IF: 3.398, **Q1**]
- J112 Y. Miao, W. Li, D. Tian, M. Shamim Hossain** and M. F. Alhamid, "Narrow Band Internet of Things: Simulation and Modelling," *IEEE Internet of Things Journal*, vol. PP, no. 99, 2017, DOI: 10.1109/JIOT.2017.2739181.[IF:7.596, **Q1**]
- J111 A. Alnusair, M. Rawasdeh, M. Shamim Hossain***, and A. Alamri "Context-Aware Multimodal Recommendations of Multimedia Data in Cyber Situational Awareness ," *Multimedia Tools and Applications*, , Volume 76, Issue 21, pp 22823–22843, November 2017 [IF:1.530, **Q2**]
- J110 M. Shamim Hossain***, G. Muhammad, "Environment Classification for Urban Big Data Using Deep Learning" *IEEE Communication Magazine*, 2017. [IF: 10.435]
- J109 M. A. Rahman and M. Shamim Hossain***, "A Cloud-based Virtual Caregiver for Elderly People in a Cyber Physical IoT Systems," *Cluster Computing*, 2017. [IF: 2.04, **Q2**]
- J108 Z. Ali, and M. Shamim Hossain*** et al., New Zero-watermarking Algorithm Using Hurst Exponent for Protection of Privacy in Telemedicine, *IEEE Access*, vol. PP, no. 99, pp. 1-14, [IF: 3.244, **Q1**]
- J107 A. Al-Latif , M. Shamim Hossain*** et al. , " Secure quantum steganography protocol for fog," *IEEE Access*, vol. PP, no. 99, pp. 1-14, [IF: 3.244, **Q1**]
- J106 -- M. Shamim Hossain*** et al., "An Annotation Technique for In-Home Smart Monitoring Environments," *IEEE Access*, vol. PP, no. 99, pp. 1-14, [IF: 3.244, **Q1**]
- J105 Z. Ali, M. Shamim Hossain***, G. Muhammad and A. Sangaiah, "An Intelligent Healthcare System for Detection and Classification to Discriminate Vocal Fold Disorders," *Future Generation Computer Systems (Elsevier)*, 2017, [IF: 3.997, **Q1**]

- J104** S. Elmougy, **M. Shamim Hossain*** et al., "A parameter based growing ensemble of self-organizing maps for outlier detection in healthcare," *Cluster Computing*, 2017. DOI: 10.1007/s10586-017-1327-0 .[IF: 2.04, **Q2**]
- J103** **Y. Mao**, _____ **M. Shamim Hossain**, RADB: Random Access with Differentiated Barring for Latency-constrained Applications in NB-IoT Network, "Wireless Communication & Mobile Computing, 2017. [IF: 1.899] [Accepted to appear]
- J102** Miao, Y. Tian, L. Peng, **M. Shamim Hossain*** and G. Muhammad, "Research and Implementation of ECG-based Biological Recognition Parallelization," *IEEE Access*, vol. PP, no. 99, pp. 1-1. DOI: 10.1109/ACCESS.2017.2771220 [IF: 3.244, **Q1**]
- J101** A. Al-Latif, **M. Shamim Hossain** and N. Wang, "Score level multibiometrics fusion approach for healthcare" *Cluster Computing*, DOI: 10.1007/s10586-017-1287-4. .[IF: 2.04, **Q2**]
- J100** L. Li, **M. Shamim Hossain** et al. "Distortionless secret image sharing scheme for Internet of Things system" *Cluster Computing*, DOI :10.1007/s10586-017-1287-4.[IF: 2.04, **Q2**]
- J99** M. Al-Qurishi, **M. Shamim Hossain***, M. Alrubaian, S. M. M. Rahman and A. Alamri "An efficient key agreement protocol for Sybil-precaution in online social networks," *Future Generation Computer Systems*, 2017, 10.1016/j.future.2017.07.055. [IF: 3.997, **Q1**]
- J98** M. Chen, J. Yang, L. Hu, **M. Shamim Hossain**, G. Muhammad, "Urban Healthcare Big Data System based on Crowdsourced and Cloud-based Air Quality Indicators," *IEEE Communication Magazine*, 2017. [IF: 10.435]
- J97** M. Al-Qurishi, **M. Shamim Hossain***, M. Alrubaian, S. M. M. Rahman and A. Alamri," SybilTrap: A graph-based semi-supervised Sybil defense scheme for online social networks," *Wiley Concurrency and Computation: Practice and Experience*, 2017, DOI: 10.1002/cpe.4276 [IF: 1.133, **Q3**]
- J96** H. A. A. Hamid, S. M. M. Rahman, **M. Shamim Hossain***, A. Almogren and A. Alamri, "A Security Model for Preserving the Privacy of Medical Big Data in a Healthcare Cloud Using a Fog Computing Facility with Pairing-Based Cryptography," *IEEE Access*, vol. 5, no. 2017, pp. 1-1. [IF: 3.244 **Q1**]
- J95** H. M. Raafat, **M. Shamim Hossain*** et al., "Fog Intelligence for Real-time IoT Sensor Data Analytics," *IEEE Access*, vol. 5, no. 2017. DOI: 10.1109/ACCESS.2017.2754538 [IF: 3.244, **Q1**]
- J94** M. A. Rahman and M. Shamim Hossain*, "Semantic Multimedia Fog Computing and IoT Environment: Sustainability Perspective," *IEEE Communications Magazine*, vol. pp, 2017 [IF: 10.435. [IF: 10.435, **Q1**]
- J93** Y. Zhang, K. Duan, **M. Shamim Hossain**, S.M.M. Rahman, "TOLA: Topic-Oriented Learning Assistant Based on Cyber-Physical System and Big Data," *Future Generation Computer Systems (Elsevier)*, Volume 75, October 2017, Pages 200-205, 2017. [IF: 3.997, **Q1**]
- J92** _____, **M. Shamim Hossain** et al. "Edge-CoCaCo: Towards Joint Optimization of Computation, Caching and Communication on Edge Cloud," *IEEE Wireless Communication magazine*, vol. 99. no. p, pp. 1-8, 2017 [IF: 8.972, **Q1**]
- J91** M. Rawashdeh, M. Shorfuzzaman, A. Ghoneim, M. Shamim Hossain, "Mining tag-clouds to improve social media recommendation, *Springer Multimedia Tools and Applications*, October 2017, Volume 76, Issue 20, pp 21157–21170, October 2017 [IF:1.530, **Q2**]
- J90** J. Song, Y. Miao, E. Song, **M. Shamim Hossain**, and Mohammed F. Alhamid," Reliability-Aware Cooperative Node Sleeping and Clustering in Duty-Cycled Sensors Networks," *SENSORS*, 2017 [IF:2.677, **Q1**]
- J89** P. Zhou, K. Duan, J. Lu, M. Shamim Hossain, Ahmed Ghoneim "emHealth: Towards Emotion Health through Depression Prediction and Intelligent Health Recommender System" *Mobile Networks and Applications*, (2017). DOI:10.1007/s11036-017-0929-3. [IF: 3.259, **Q1**]
- J88** **M. Shamim Hossain**, J. Yang, J. Lu, C. Han, and M. F. Alhamid, "MT-AAAU: Design of Monitoring and Tracking for Anti-Abuse of Amateur UAV," *Mobile Networks and Applications*, DOI 10.1007/s11036-017-0936-4, 2017. [IF: 3.259, **Q1**]
- J87** C. F. Lai, Y. C. Chang, H. C. Chao, **M. Shamim Hossain**, Ahmed Ghoneim, "A Buffer-Aware QoS Streaming Approach for SDN-Enabled 5G Vehicular Networks," *IEEE Communications Magazine*, vol. 55, no. 8, pp. 68-73, 2017 [IF: 10.435, **Q1**]

- J86** *M. Shamim Hossain**, M. A. Rahman, and G. Muhammad, "Cyber Physical Cloud-Oriented Multi-Sensory Smart Home Framework for Elderly People: Energy Efficiency Perspective," *Journal of Parallel and Distributed Computing*, vol. 103, no. 2017, May 2017, pp. 11-21. [IF: 1.93, Q2]
- J85** J. Wang, J. Song, *M. Shamim Hossain*, and SMM Rahman, "A Software Defined Network Routing in Wireless Multihop Network," *Journal of Network and Computer Applications*, vol. 85, no. 2017, pp. 76-83, May 2017. [IF: 2.331, Q1]
- J84** H.A. Al Hamid, SMM. Rahman, *M. Shamim Hossain**, and A. Alamri, "A Security Model for Preserving the Privacy of Medical Big Data in a Healthcare Cloud Using a Fog Computing Facility with Pairing-Based Cryptography," *IEEE Access*, vol. 5, no. 1, 2017. [IF: 3.244, Q1]
- J83** M. A. Rahman, and *M. Shamim Hossain** "A Secure Mobile Edge Computing Framework for Hajj," *IEEE Access*, vol. 5, no. 2017, pp. 5: 11768-11781, May, 2017 [IF: 3.244, Q1]
- J82** *M. Shamim Hossain**, G. Muhammad, A. Al-Mogren, A. Alamri, "Cloud-oriented emotion feedback-based Exergames framework," *Multimedia Tools and Applications*, April, 2017. DOI: 10.1007/s11042-017-4621-1 [IF:1.530, Q2]
- J81** M. Masud, and *M. Shamim Hossain**, "Secure Data Exchange Protocol in a Cloud-Based Collaborative HealthCare Environment," *Multimedia Tools and Applications*, May, 2017 DOI: 10.1007/s11042-017-5294-5 [IF:1.530, Q2]
- J80** M. Al-Qurishi, and *M. Shamim Hossain**, "User Profiling for Big Social Media Data using Standing Ovation Model," *Multimedia Tools and Applications*, May, 2017, DOI: 10.1007/s11042-017-5402-6. [IF:1.530]
- J79** M. Al-Qurishi, A. Alamri, SMM. Rahman, and *M. Shamim Hossain**, "An Efficient Key Agreement Protocol for Sybil-precaution in Online Social Network," *Future Generation Computer Systems* (Elsevier), 2017 [IF: 3.997, Q1]
- J78** Majdi Rawashdeh, Mohammed GH. Al Zamil, Samer Samarah, *M. Shamim Hossain**, Ghulam Muhammad, A knowledge-driven approach for activity recognition in smart homes based on activity profiling, *Future Generation Computer Systems* (Elsevier), 2017 DOI: 10.1016/j.future.2017.10.031 [IF: 3.997, Q1]
- J77** *M. Shamim Hossain**, W. Abdul, G. Muhammad, B. Song, and B. Gupta "Cloud-assisted secure video transmission and sharing framework for smart cities," *Future Generation Computer Systems* (Elsevier), April 2017 <http://doi.org/10.1016/j.future.2017.03.029>. [IF: 3.997, Q1]
- J76** M. Al-Qurishi, M. Al-Rakhami, A. Alamri, M. AlRubaian, M. Rahman, and *M. Shamim Hossain**, "Sybil Defense Techniques in Online Social Networks: A Survey," *IEEE Access*, vol. 5, no.2017, pp.1200 - 1219.
- J75** *M. Shamim Hossain**, "Cloud-supported Cyber-Physical Framework for Patients Monitoring," *IEEE Systems J.*, vol. 11, no. 1, pp. 118-127, March 2017 [IF: 3.882, Q1]
- J74** K. Lin, J. Song, J. Luo, W. Ji, *M. Shamim Hossain*, and A. Ghoneim, "GVT: Green Video Transmission in the Mobile Cloud Networks" *IEEE Trans. Circuits Syst. Video Technol.*, vol. 27, no. 1, pp. 159-169, January 2017. [IF: 3.599, Q1]
- J73** W. Abdul, Z. Ali, G. Muhammad, B. ALfawaz, and *M. Shamim Hossain**, "Biometric Security through Visual Encryption for Fog Edge Computing," *IEEE Access*, vol. 5, pp. 5531-5538, 2017. [IF: 3.244, Q1]
- J72** M. A Rahman, and *M. Shamim Hossain**, "Location-Based Mobile Crowdsensing Framework Supporting a Massive Ad-Hoc Social Network Environment," *IEEE Communication Magazine*, vol. 55, no. 3, pp. 76-85 March 2017. [IF: 10.435, Q1]
- J71** M. Shorfuzzaman, M. X, and *M. Shamim Hossain**, "Harnessing the power of big data analytics in the cloud to support learning analytics in mobile learning environment," *Computers in Human Behavior*, Vol. x, pp. x, 2017[IF:3.453, Q1]
- J70** *M. Shamim Hossain**, and G. Muhammad, "An emotion recognition system for mobile applications," *IEEE Access*, vol. 5, pp. 2281-2287, Feb., 2017 [IF: 3.244, Q1]
- J69** G. Muhammad, M. Alhamid, *M. Shamim Hossain*, A. Al-Mogren, A. Vasilakos, "Enhanced Living by Assessing Voice Pathology Using Co-occurrence Matrix," *Sensors*, 2017, 17, 267 [IF:2.677, Q1]
- J68** *M. Shamim Hossain**, C. Xu, A.M. Artoli, M. Murshed, S. Goebel, "Cloud-Based Multimedia Services for healthcare and other related applications," *Future Generation Computer Systems (Elsevier)*, vol. 66,

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