

Dr. Anwar Ghani

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RESEARCH INTERESTS

Wireless Sensor Networks, Information Security, Cloud, IoT and Fog-Computing

EDUCATION

Years	Degree	Name of Institution
2011-2016	PhD Computer Science	International Islamic University Islamabad
2008-2011	MS Computer Science	International Islamic University Islamabad

WORK EXPERIENCE

- Lecturer, 12-08-2016 to-date (2 years 4 Months)

COURSE TEACHING

Undergraduate Level

- Computer Communication & Networks
- Design & Analysis of Algorithms
- Data Communication
- Data Structures & Algorithms
- Discrete Structures

Graduate Level

- Advance Computer Networks
- Cryptography & Network Security

PUBLICATIONS (year wise, from latest)

2018

1. Ahmed Fraz Baig, Khwaja Mansoor ul Hassan, Anwar Ghani, Shehzad Ashraf Ch., Imran Khan, Muhammad Usman Ashraf, "A lightweight and secure two-factor anonymous authentication protocol for Global mobility Networks", in Public Library of Sciences PLoS ONE, 13(4), 2018. (*impact factor 2.806*)

2. Syed Muhammad Saqlain; Muhammad Sher; Shah Faiz Ali; Khan Imran; Muhammad Usman Ashraf; Muhammad Awais; Ghani Anwar, "Fisher Score and Matthews Correlation Coefficient based Feature Subset Selection for Heart Disease Diagnosis using Support Vector Machines," Knowledge and Information Systems (KAIS), Springer 2018. (*impact factor 2.004*)

2017

3. Saeed Anum, Usmani Raja, Sher Afgun, Akram Hina, Muhammad Syed, Saqlain, Ghani Anwar, "The Impact of Capability Maturity Model Integration on Return on Investment in IT Industry: An Exploratory Case Study", Engineering, Technology & Applied Science Research, 7(6), 2017.
4. Imran Khan, Muhammad Sher, Syed Muhammad Saqlain, Husnain Naqvi, Anwar Ghani, M. Usman Ashraf, & Javed I. Khan, "Role-based efficient information extraction using rule-based decision tree." International Journal of Advanced And Applied Sciences, 4(1),74-83, 2017

2016

5. Ghani A, Naqvi H, Sher M, Khan M. A, Khan I, & Irshad A, "Spread Spectrum Based Energy Efficient Collaborative Communication in Wireless Sensor Networks", PLoS ONE, Public Library of Science, 2016, 11(7), 1-24. (*impact factor 3.057*)
6. Anwar Ghani, Husnain Naqvi, Muhammad Sher, Zeeshan S Khan, Imran Khan, & Syed M Saqlain, Energy efficient communication in body area networks using collaborative communication in Rayleigh fading channel, Telecommunication Systems, 2016, 63, 357-370. (*impact factor 0.822*)
7. E. Rehman, M. Sher, H. Naqvi, A. Ghani, "Enhancing Energy Efficiency and QoS using Buffer Queue Management Algorithms in Stable Clustering for Wireless Mobile Sensor Network", International Journal of Computer Science and Information Security (IJCSIS), Vol. 14 No. 11, 2016.

8. K. Mansoor, A. Ghani, A. F. Baig, H. Naqvi, I. Khan, M. Saqlain, “Two-Level Authentication Scheme for Securing Session Passwords”, International Journal of Computer Science and Information Security (IJCSIS), Vol. 14 No. 11, 2016.
9. Imran Khan, Javed I. Khan, Muhammad Sher, Syed M. Saqlain, Anwar Ghani, M. Usman Ashraf, “Clinical Document Construction by using HL7 with Medical DropBox for Exchange of Electronic Health Records Under Country Medical Law”, International Journal of Computer Science and Information Security (IJCSIS), Vol. 14 No. 10, October 2016.
10. Khan I, Sher M, Aslam S, Saqlain SM, Ashraf MU, Khan JI, Rauf M, Ghani A. Medical drop box (MDB); A national health information exchange and management system for medical industry. Professional Med J 2016; 23 (4):489- 498. DOI: 10.17957/TPMJ/16.3279
11. I. Khan, M. Sher, Javed I Khan, M. Saqlain, A. Ghani, A. Naqvi, M. U. Ashraf “Conversion of Legal Text to Logical Rules Set from Medical Law using Medical Relational Model (MRM) and World Rule Model (WRM) for Medical Decision Support System for HER” Informatics 2016, 3(1).

2014

12. Ch, S., Uddin, N., Sher, M., Ghani, A., Naqvi, H. & Irshad, A. “An efficient signcryption scheme with forward secrecy and public verifiability based on hyperelliptic curve cryptography” Multimedia Tools and Applications, Springer US, 2014, 1-13. (*impact factor 1.058*)

2013

13. Irshad, A., Sher, M., Faisal, M. S., Ghani, A., Ul Hassan, M. & Ashraf Ch, S., “A secure authentication scheme for session initiation protocol by using ECC on the basis of the Tang and Liu scheme”, Security and Communication Networks (SCN), 2013. (*impact factor 0.433*)

14. A. Irshad, M. Sher, E. Rehman, S. A. Ch, M. U. Hassan, and A. Ghani, "A single roundtrip sip authentication scheme for voice over internet protocol using smart card," *Multimedia Tools and Applications*, pp. 1–18, 2013. (*impact factor 1.058*)

2012

15. Z. Mehmood, N. Nizamuddin, S. Ch, W. Nasar, and A. Ghani, An efficient key agreement with rekeying for secured body sensor networks, in *Digital Information Processing and Communications (ICDIPC), Second International Conference. IEEE, 2012*, pp. 164-167

THESIS SUPERVISED

Year wise from latest

2018 (Ph.D. Students)

- Mr. Saba Mahmood, "Reputation Based Approach Toward Web Content Credibility Analysis (BASR Approved)"
- Mr. Afzal Badshah, "Optimizing IaaS provider revenue through Customer satisfaction and efficient resource provisioning in Cloud Computing" (BASR Approved)
- Mr. Ghani Rehman, "SOS: Socially Omitting Selfishness in Internet of Things for Smart and Connected Communities (SCC)" (BOF Approved)
- Mr. Syed Shabih Ul Hasan, "Instructionally Computed/ Processed Graphical Authentication" (Proposal In-progress)
- Mr. Hassan Zeb, "Distributed Hash Table Based Routing in Wireless Sensor Networks" (Proposal In-progress)

Master of Computer Science

2018

- Obaid Ali Khan, "Enhanced Authentication Protocol for Smart Vehicular System based on Wireless Sensor Network" (Completed)
- Imran Hayat, "A Symmetric Cryptography Based Key Agreement Protocol for Distributed Cloud Computing Environment" (Completed)
- Muhammad Sibtain Ahmad Khan, "An Untraceable Monitoring for Patients using Wireless Medical Sensor Networks" (Completed)
- Kashif Gilani, "An improved three factor authentication protocol for WSNs Based IoT System using Symmetric Cryptography" (Proposal Approved)
- Mr. Umair Ali Khan, "A Secure Dynamic Authentication Method for Privacy Protection E-Health System" (Proposal Approved)

Bachelor of Computer Science

2016

- Mr. Muhammad Mateen Mr. Osama Ali, "Petition System for Pakistan"
- Mr. Osama Saif, "Meet Up"

- Mr. Nadeem Saleem, “Online Medical Store Automation System with Prediction Analysis”
- Mr. Umair Aslam, “TBud”
- Mr. Hameedullah, Mr. Noor Muhammad “Emotion Recognition through facial expression”
- Mr. Muhammad Shafiq, “Graduate proposal submission & management system for GRC”
- Mr. Ishtiaq Haider, “Mehria electronics software”

ACADEMIC ACTIVITIES

Departmental

- Member Data collection committee for NCEAC visit -2018
- Coordinator Graduate Research Committee
- Member Time Table Committee
- Member of Seating plan committee, Admission 2016-2017-2018 DCS&SE
- Member of “Self-Assessment Committee” DCS&SE, 2016-17
- Coordinator viva arrangement committee

Program Committee Member

- 2017: C-CODE

Paper Reviewer

- **Journals**
 - Telecommunication Systems, Springer
 - Journal of Internet Technology
 - Wireless Communication, Hindawi
 - PLoS ONE
 - Journal of Theoretical and Applied Information Technology
- **Conferences**
 - 2017: C-CODE