Place of Residence: Ajman, UAE
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Date of Birth: 6th October, 1980

RAO NAVEED BIN RAIS

PROFESSOR (ELECTRICAL AND COMPUTER ENGINEERING, AJMAN UNIVERSITY, UAE)

H-Index: 18 | Google Scholar Citations: 1341 | Impact Factor: 81.1
Senior Member IEEE, Member PEC, Member Internet Society

EMPLOYMENT	Aug 2021 – Date **Ajman University** **Designation: Professor (Electrical and Computer Engineering)**	UAE
	Aug 2016 – Aug 2021 **Ajman University** **Designation: Associate Professor (Electrical and Computer Engineering)**	UAE
	Jun 2013 – Aug 2016 **Capital University of Science & Technology** **Designation: Associate Professor (Electrical Engineering)**	Pakistan
	Jul 2011 – Jun 2013 **COMSATS University, Islamabad** **Designation: Assistant Professor (Electrical Engineering)**	Pakistan
	Mar 2007 – Feb 2011 **INRIA, Sophia Antipolis** **Designation: Research Student, Planete Research Group**	France
	Jan 2003 – Jun 2006 **C.A.R.E. Pvt. Ltd.** **Designation: Senior Design Engineer**	Pakistan
	Jul 2002 – Jan 2003 **Communications Enabling Technologies** **Designation: Design Engineer**	Pakistan
EDUCATION	2007 – 2011 **INRIA/University of Nice-Sophia Antipolis** **PhD (Computer Engineering) –** Networks and Distributed Systems	France
	2006 – 2007 **INRIA/University of Nice-Sophia Antipolis** **Master Research, Information and Communication Sciences and Technologies (STIC) – Networks and Distributed Systems (RSD) –** Score: **15.2/20.0 – 2nd Position**	France
	1999 – 2002 **National University of Science & Technology (NUST)** **Bachelor of Engineering in Computer Systems –** Distinction (Honors) with CGPA **3.57/4.00**	Pakistan

SELECTED ADMINISTRATIVE ROLES

<u>Current</u>
- Chair, Departmental Research Committee
- Chair, Adhoc Committee on Promotion, CEIT
- Chair, Adhoc Faculty Search Committee, CEIT
- Co-Chair, Task Force for Exploring New Directions and Initiatives in the EE Program
- Member, AU Faculty Promotion Committee
- Member, College Research Committee
- Member, College Strategic Plan Committee,
- Prepared Self-Study reports for **ABET** (**2020, 2023**) and **CAA, UAE** (**2017, 2021**)
- **Coordinator**, Computer Engineering Training and Internship
- Member of AU Faculty Advisory Council (FAC) appointed by the AU Chancellor
- AU Academic Ambassador for Pakistan
- Member, Department Curriculum Committee
- Member, ABET Accreditation Committee
- Member, College Internship and Training Committee
- Member, ECE Recruitment Committee
- Member, Assessment and Continuous Improvement Committee (ACIC)

<u>Past</u>
At Ajman University
- Chaired the College Research Committee
- Developed the New Vision and Study Plans for EE and CE programs
- Member, Dean Search Committee, CEIT, AU

- Member, Dean Search Committee, CBA, AU
- Member, Dean Search Committee, DRG, AU
- Chaired the Departmental Promotion Committee
- Member, AU Research Council
- Member, AU Research and Graduate Studies Council
  Developed rules, procedures and policies for Deanship of Research and Graduate Studies
- Member of AU Quality Assurance Good Practice Committee
- Member of AU Task Force for Exploring and Recommending Initiatives for Increasing Admissions for AU, appointed by the AU Chancellor
- Transformed the CE curriculum to comply with ABET requirements
- Developed Performance Indicators to Measure the Program Learning Outcomes of CE program
- Member, College Academic Council (2016–2019)
- Member, Research Conferences Committee (2017–18)
- Member, Lecturer Search Committee, College of General Studies

At Capital University of Science & Technology (CUST)
- **Head**, Web Development, CUST (2013–16)
- **Coordinator** for **ABET** accreditation & OBE (**Outcome-Based Education**) under Washington Accord (2014–16)
- **In-Charge** of Course Files Audit to comply with **ABET** and Washington Accord (2014–16)
- Member, Board of Studies, EE Department (2013–16)
- Member, Curriculum Development Committee, EE Department (2011–13)

At COMSATS University
- **Program Coordinator (EE)**: COMSATS-Lancaster University Dual Degree Program (2011–13)
- **In-charge** of Courses Management (2012–13)
- **Head**, Computer Architecture & Communication Networks area (2011–13)
- Member, Campus Academic Regulatory Committee (CARC), (2012–13)
- Member, Departmental Academic Review Committee (DARC) (2011–13)
- Special Member, Board of Studies (BoS-EE) (2012–13)
- Member, COMSATS-Lancaster University Joint Exam Board (2013)
- Member, Campus Library Committee, CIIT (2011–13)
- Member, Departmental Curriculum Development Committee (2012–13)
- Member, Departmental Graduate Program Committee (2012–13)
- Member, Undergraduate Projects Advisory Committee (2011 – 13)

RESEARCH SUPERVISION	- Co-supervising 1 PhD student at University of Glasgow, UK - Co-supervising 1 PhD student at COMSATS University, Islamabad - Co-supervised 5 PhD students at CUST, Islamabad - Co-supervised 3 PhD students at University of Glasgow, UK - Supervised a number of MS research thesis
RESEARCH GRANTS **Total Research Grant Raised: 0.6 Million AED**	- Anomaly Detection Model in Cyber Physical Systems using Federated Learning - Robust Federated Learning for Intelligent Applications of Network Generation Networks - Privacy-Aware Federated Learning Algorithm for Next Generation Network Intelligent Applications - Machine Learning based Intrusion Detection in Internet of Things (IoT) using Ensemble Learning Stacking - Blockchain enabled Mobility Predictions and Handover Skipping for Next Generation Wireless Networks - Energy Aware Mobile Communication and Mobility Predictions using Machine Learning Techniques for Heterogenous Future Cellular Networks - Artificial Intelligence Aided Radio Resource and Mobility Management for Future Cellular Networks - Network virtualization for supporting task offloading across hybrid cloud infrastructures - Framework for control and monitoring of Wireless Mesh Networks using Software-Defined Networking - Communication in Heterogeneous Networks with Episodic Connectivity, Equipes Associées Project
COMMUNICTY SERVICES & ACHIEVEMENTS	- Representative of RSSAC to Continuous Improvement Program – Community Coordination Group (CIP-CCG) - Member of ICANN Nominating Committee (Nomcom), 2023-24 - Received **Community Recognition Certificate** from ICANN, 2023 - Received **Certificate of Appreciation** as Top Contributor to the Mission of TLC at Ajman University - Member, At-Large Advisory Committee (ALAC) representing Asia, Australia and Pacific Region appointed by Nomcom (2021-23) - Member of ICANN GNSO Standing Selection Committee (SSC) nominated by Non-Commercial Stakeholder Group (NCSG) (2020-21)

- **"Faculty Excellence for Research" (Best Researcher)** award from Ajman University for the year 2018/19
- Served as Community Mentor representing Root Server Stability Advisory Committee (RSSAC) for ICANN Fellowship Program (2019-2021) for ICANN65 (**Marrakech**), ICANN66 (**Montreal**), ICANN67 (**Cancun**), ICANN68 (**Kuala Lumpur**), ICANN69 (**Hague**), ICANN70 (**Cancun**) and ICANN71 (**Hague**)
- Selected as ISOC Fellow for 2019 ISOC ME Chapters Workshop (**Beirut, Lebanon**)
- Member of Second Security, Stability and Resilience Review Team for ICANN (Aug 18 – May 20)
- Selected as ICANN Fellow for the following ICANN meetings
  - ICANN62 (**Panama**), ICANN59 (**Johannesburg**), ICANN56 (**Helsinki**), ICANN54 (**Dublin**), ICANN 53 (**Buenos Aires**), ICANN52 (**Singapore**), ICANN50 (**London**)
- ISOC Fellow for the following IETF meetings – IETF 100th (**Singapore**), IETF 92nd (**Dallas**)
- Served as ICANN Community Mentor for ICANN 60th Meeting (**Abu Dhabi**)
- Served as ICANN Fellowship Coordinator (Leader) for ICANN 55th Meeting (**Marrakech**)
- Outstanding employee for the years 2003/04, 2011/12 and 2012/13
- Research Productivity Award for the year 2011 at CUI
- PhD degree with Honors Distinction (Très Honorable)
- HEC scholarship for MS and PhD studies in France from Government of Pakistan, 2006-2011
- Scholarship from Ministry of Science and Technology (MoST), Pakistan for Bachelor of Engineering, 2000-2002
- Sheikh Zayed's Scholarship from UAE Government for Bachelor of Engineering on the basis of performance at HSC level, 1999-2002
- Academic Performance Scholarships from National University of Sciences and Technology (NUST), Pakistan for six semesters of Bachelor of Engineering, 1999-2002

PROFESSIONAL TRAININGS	
- Engaging HE Students with Project-Based Learning	- Problem Solving Tools and Techniques
- Strategize Online Assessment and Using Online Resources	- Writing Appropriate CLOs and their Correct Mapping to PLOs and Assessment Instruments
- Curriculum Mapping: Tool for Curriculum Alignment and Improvement	- Constructing a High-Quality Course Syllabus
- Coaching and Mentoring	- Preparing and Creating Lesson Plans
- Course Planning	- Moodle Teaching Next Level
- Moodle 3.11 Basics	- Developing Life-long Learning Competencies in Undergraduate Students through Visual Thinking Strategies
- Effectively Flipping your Course	- Transitioning Effectively to Online Teaching
- Cloud Application Developer by IBM Skills Academy	- Student Assessment in Higher Education
- Advanced Training on Moodle	- "Train the trainers" course on DNS Security and Operations conducted by ICANN, Dubai
- DNS Security	- Teaching, learning and assessment at Lancaster University, UK
- Research Methodologies at Lancaster University, UK	

WORKSHOPS / SEMINARS / TALKS	
	- Panelist at Advances in Computing Research (ACR) 2023 Conference, Florida, USA
	- Organized and delivered a two-day workshop on "Scientific Writing and Presentation Skills Development" at Ajman University, UAE
	- Invited talk on "Information-Centric Networking" at International conference in Computer Science and Allied Technologies
	- Co-trainer at 29th South Asian Network Operators Group (SANOG), Workshop on DNS Operations and Security
	- Invited Talk on "Secure Internet" and Panelist at IEEE PSCSC 2016
	- Trainer & Faculty Member at 1st Pakistan School on Internet Governance (PKSIG) held at Islamabad, Pakistan
	- Organized a seminar on "Security, Stability and Resilience in the Internet" at CUST, Islamabad
	- Panelist in Workshop on "Internet Governance and Role of its Stakeholders" hosted by Ministry of Information Technology and Telecommunications (MoITT), Government of Pakistan
	- Invited talk on "Software Defined Networks" at National Software Engineering Conference (NSEC), Rawalpindi
	- Organized and delivered a seminar on "ICANN Functionality and DNS Security Awareness" at CUST
	- Organized and delivered a two-day workshop on "Scientific Writing and Presentation Skills Development" at CUST, Islamabad

Peer Reviewed International Journals

1. "*A Hybrid Group-Based Food Recommender Framework for Handling Overlapping Memberships*", **MDPI Applied Sciences**, 2024.
2. "*Blockchain-empowered Secure Spectrum Sharing for Next Generation Train Networks*", **IEEE Access**, 2024.
3. "*Trust-Based Optimized Reporting for Detection and Prevention of Blackhole Attacks in Low-Power and Lossy Green IoT Networks*", **MDPI Sensors**, . Vol. 24, No. 6, 2024.
4. "*Securing RPL-based Internet of Things against Sybil Attacks using Random Password Generation and Comparison Method*", **Computers, Materials and Continua (CMC)**, Vol. 77, No. 1, 2024.
5. *"Analysis of Intrusion Detection using Ensemble Stacking-based Machine Learning Techniques in IoT Networks"*, **Lecture Notes on Networks and Systems**, 2023.
6. "*Context-Aware Handover Skipping for Train Passengers in Next Generation Wireless Networks*", **Journal of Communications and Networks**, 2023.
7. "*Latency-aware Blockage Prediction in Federated Vision-Aided Wireless Communication*", **Frontiers in Communication and Networks**, 2023.
8. "*Blockchain-enabled Handover Skipping for High Mobility Train Passengers*", **IET Electronics Letters**, 2022.
9. *"Context-Aware Wireless Connectivity and Processing Unit Optimization for IoT Networks"*, **IEEE Internet of Things** Journal, 2022.
10. *"Edge Intelligence in Private Mobile Networks for Next Generation Railway Systems"*, **Frontiers in Communications and Networks**, 2021.
11. *"Soft-Mesh: A Robust Routing Architecture for Hybrid SDN and Wireless Mesh Networks"*, **IEEE Access**, Vol. 9, pp 87715-87730, 2021.
12. "*Energy Optimization in Ultra-dense Radio Access Networks via Traffic-aware Cell Switching*", **IEEE Transactions on Green Communications and Networking**, 2021.
13. *"Detection of Malicious Consumer Interest Packet with Dynamic Threshold Values"*, **PeerJ Computer Science** Journal, 7:e435, 2021.
14. *"On the Classification of Microsoft-Windows Ransomware Using Hardware Profile"*, **PeerJ Computer Science** Journal, 7:e361, 2021.
15. "*Employing industrial quality management systems for quality assurance in outcome-based engineering education: A review*", **MDPI Education Sciences** Journal, Vol. 11, Issue 2, 2021.
16. *"Mobility Management-Based Autonomous Energy-Aware Framework Using Machine Learning Approach in Dense Mobile Networks"*, **MDPI Signals**, 2020.
17. *"Modeling an Optimized Approach for Load balancing in Cloud"*, **IEEE Access**, Volume 8, pp :136769 – 136781, 2020.
18. *"An Enhanced Firefly Algorithm Using Pattern Search for Solving Optimization Problems"*, **IEEE Access**, Vol. 8, pp 148264 – 148288, 2020.
19. *"SDNMesh: An SDN based Routing Architecture for Wireless Mesh Networks"*, **IEEE Access**, Vol. 8, pp 136769 – 136781, 2020.
20. *"Indoor Mobile Localization Using Wireless Sensor Networks (WSNs)"*, **Springer Advances in Intelligent Systems and Computing**, Web, Artificial Intelligence and Network Applications, Vol. 1150, pp 341-351, 2020.
21. *"SDNHybridMesh: A Hybrid Routing, Architecture for SDN Based Wireless, Mesh Networks"*, **Springer Advances in Intelligent Systems and Computing**, Web, Artificial Intelligence and Network Applications, Vol. 1150, pp 366-375, 2020.
22. *"Study and Analysis of Mobility, Security and Caching Issues in CCN"*, **International Journal of Electrical and Computer Engineering (IJECE)**, Vol. 10, Issue 2, pages 1438-1453, 2020.
23. "*Data Offloading in IoT Environments: Modeling, Analysis, and Verification*", **Springer EURASIP Journal of Wireless Communication and Networking**, 2019(53), 2019.
24. "*Optimal Content Caching in Content-Centric Networks*", **Wiley/Hindawi Wireless Communications and Mobile Computing** journal, Vol. 2019, Article ID: 6373960, 2019.
25. *"A Dynamic Caching Strategy for CCN-based MANETs"*, **Elsevier Computer Networks** journal, Vol. 142, Pages 93-107, 2018.
26. "*A Resource Efficient Multi-dimensional Cache Management Strategy in Content Centric Networks*", **Journal of Computational and Theoretical Nanoscience**, Vol. 15, Issue 4, pages 1137-1152, 2018.
27. *"Benchmarking and Modeling of Routing Protocols for Delay Tolerant Networks"*, **Springer Wireless Personal Communications (WPC)**, Vol. 94 No. 3, pp 859-888, 2017.
28. "*Smartphone-Controlled Localization and Management of Home Appliances using IoT*", **ASM Science** Journal Special Issue 2017. No. 1, pp 64-68, 2017.
29. "*Cooperation in Opportunistic Networks: An Overlay Approach for Destination-Dependent Utility-Based Schemes*", **Springer Arabian Journal of Science and Engineering**, Vol. 42 No. 2, pp 467-482, 2017.

30. *"Resource Aware Routing in Heterogeneous Opportunistic Networks"*, **Hindawi International Journal of Distributed Sensor Networks**, Vol. 2016, Article ID 2907980, pp 1-18, 2016.
31. "*Message Delivery in Heterogeneous Networks prone to Episodic Connectivity*", **ACM/Springer Wireless Networks (WINE)** Journal, Vol. 17 No. 8, pp 1775-1794, 2011.
32. *"Efficient Content Dissemination in Heterogeneous Networks Prone to Episodic Connectivity"*, **ACM Computer Communications Review (CCR)**, Vol. 41, No. 4, pp 480-481, (also appeared in Proceedings of ACM SIGCOMM, Toronto, Canada), 2011.
33. "*Routing for Disruption Tolerant Networks: Taxonomy & Design*", **ACM/Springer Wireless Networks (WINE)** Journal, Vol. 16 No. 8, pp 2349-2370, 2010.

Peer-Reviewed International Conferences and Workshops

1. *"Elevating Education through AI Tutor: Utilizing GPT-4 for Personalized Learning",* in Proc. of IEEE URC Conference 2024, UAE, 2024.
2. *"A Comparative Analysis of Federated and Centralized Machine Learning for Intrusion Detection in IoT"*, in Proc. of IEEE ACIT Conference, UAE, 2023.
3. *"Vision-Assisted Beam Prediction for Real World 6G Drone Communication",* in Proc. of IEEE PIMRC, Toronto, Canada, 2023.
4. *"Outcome Based Performance Evaluation Approach Using Rubric Based Capstone Projects Assessment"*, in Proc. of 20th International Multi-Conference on Systems, Signals & Devices (SSD), Tunisia, 2023.
5. *"Mobility Management in the Applications of 5G and Beyond: A Handover Skipping Topology Analysis"*, in Proc. of IEEE 4th Global Power, Energy and Communication Conference (GPECOM), Turkey, 2022. (**Best Student Paper Award**)
6. *"Employing Machine Learning for Predicting Transportation Modes under the COVID-19 Pandemic: A Mobility-Trends Analysis"*, in Proc. of 2021 International Conference on UK-China Emerging Technologies (UCET), China, 2021.
7. *"Developing Fine-grained Performance Indicators for Assessment of Computer Engineering using Outcome-based Education"*, in Proc. of 9th IEEE International Conference on Information and Education Technologies, Japan, 2021.
8. *"Load-Aware Cell Switching in Ultra-Dense Networks: An Artificial Neural Networks Approach"*, in Proc. of 2020 International Conference on UK-China Emerging Technologies (UCET), UK, 2020.
9. *"Outcome-Based (Engineering) Education (OBE): International Accreditation Practices"*, in Proc. of the 127th American Society for Engineering Education (ASEE) Annual Conference and Exposition, Montreal, Canada, 2020.
10. *"Reinforcement Learning driven Energy Efficient Mobile Communication and Applications"*, in Proc. of 19th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), Ajman, UAE, 2019.
11. "*An Insight of Mobile Data Offloading: A Comparative Study*", in Proc. of IEEE International Conference on Ubiquitous and Future Networks (ICUFN), Zagreb, Croatia, 2019.
12. "*Miracle: An Agile Colocation Platform for Enabling XaaS Cloud Architecture*", in Proc. of IEEE/ACM CCGrid Conference, Cyprus, 2019.
13. "*Run-time Detection of Prime+Probe Side-Channel Attack on AES Encryption Algorithm*", in Proc. of IEEE Global Information Infrastructure and Networking Symposium (GIIS 2018), Thessaloniki, Greece, 2018.
14. "*Fog-Supported Internet of Things (IoTs) Architecture for Remote Patient Monitoring Systems using Wireless Body Area Sensor Networks*", in Proc. of IEEE Cyber Science & Technology, Workshop on Healthcare with Intelligent Sensing, System, and Data, Pages 462-466, Athens, Greece, 2018.
15. "*Multi-Attribute Caching: Towards Efficient Cache Management in Content-Centric Networks*", in Proc. of IEEE Consumer Communications & Networking (CCNC) Conference, Las Vegas, USA, 2016.
16. *"A Multi-Attribute Routing Protocol for Opportunistic Network Environments"*, in Proc. of IEEE ICCCN Wireless Mesh and Ad-hoc Networks (WiMAN) Workshop, Shanghai, China, 2014.
17. *"Taxonomy of Information-Centric Networking: Categorization and Challenges"*, in Proc. of the 23rd Wireless Optical and Communication Conference (WOCC), Newark, NJ, USA, 2014.
18. *"Analysis of TCP under Wireless Circumstances – A Performance Evaluation"*, in Proc. of IEEE International Conference on Frontiers of Information Technology (FIT), December, Islamabad 2012.
19. "*Naming for Heterogeneous Networks Prone to Episodic Connectivity*", in Proc. of IEEE Wireless Communications and Networking Conference (WCNC), Mexico, 2011.
20. "*Towards Truly Heterogeneous Internets: Bridging Infrastructure-based and Infrastructure-less Networks*", in Proc. of 3rd IEEE/ACM COMSNETS Conference, India, 2011.
21. "*Message Delivery in Heterogeneous Disruption-prone Networks*", in ACM Mobicom, Chicago, USA, 2010.
22. *"Message Delivery in Heterogeneous Disruption-prone Networks"*, demo presentation in ACM second Wireless S3 workshop, Chicago, USA, 2010.

23. "*Coping with Episodic Connectivity in Heterogeneous Networks*", in Proc. of 11th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), Canada, 2008.
24. "*Adaptive Thresholding Technique for Document Image Analysis*", in Proc. of IEEE International Multi-topic Conference proceedings (INMIC), Lahore, 2004.
25. "*A New Algorithm of Stereo Matching using Epipolar Geometry*", in Proc. of IEEE International Multi-topic Conference (INMIC), Islamabad, 2003.

Books & Book Chapters

1. *"An Insight into 5G Networks with Fog Computing"*, Book Chapter, Fog Computing: Theory and Practice Book, Wiley-IEEE Computer Society Press, 2020.
2. *"Caching, Security, and Mobility in CCN"*, Book Chapter, Fog Computing: Theory and Practice Book, Wiley-IEEE Computer Society Press, 2020.
3. *"Delay-Tolerant Networking: Routing Taxonomy and Design"*, in Encyclopedia of Wireless and Mobile Communications, Second Edition, Vol. I, Taylor and Francis Publishers, ISBN 978-1-4665095-6-6, December 2013.
4. *"Message Delivery for Intermittently-Connected Heterogeneous Networks"*, published by: LAP Publications, pages: 236, Standard: 978-3-8473-1512-4, 2011.
5. "*DTN Routing: Taxonomy & Design*", in Delay Tolerant Networks: Protocols and Applications (2nd Chapter), CRC Press, ISBN: 978-1-4398110-8-5, November, 2011.

Research Reports/Preprints

1. *"Energy Optimization in Ultra-Dense Radio Access Networks via Traffic-Aware Cell Switching"*, arXiv:2007.04133, July 2020.
2. *"Context-Aware Wireless Connectivity and Processing Unit Optimization for IoT Networks"*, arXiv:2005.00407, April 2020.
3. "*MeDeHa – Efficient Messae Delivery in Heterogeneous Networks with Intermittent Connectivity*", INRIA Technical Report No. 7227, inria-00464085, March 2010.

Local Conferences

1. "*Coping with Episodic Connectivity in Heterogeneous Networks*", Poster presentation at Rescom, France, June 2008.

INTERNET DRAFTS/RFCS	1. M.S. Akbar, **R.N.B. Rais**, A.R. Sangi, M. Zhang, C. Perkins, *"Transmission of IPv6 Packets over Wireless Body Area Networks (WBANs)"*, Internet Draft, draft-sajjad-6lo-wban-01, Published: November 2017 (https://tools.ietf.org/id/draft-sajjad-6lo-wban-02.html)
TECHNICAL PUBLICATIONS	1. **R.N.B.Rais** et. al., "*RSSAC Advisory on Measurements of the Root Server System*", RSSAC002v3, Published Online https://www.icann.org/en/system/files/files/rssac-002-measurements-root-06jun16-en.pdf, 2016. 2. **R.N.B.Rais** et. al., "*MEAC Strategy Working Group Charter*", Version 1, Published Online, https://community.icann.org/download/attachments/59642230/MEAC%20Strategy%20Working%20Group%20Charter.pdf?version=1&modificationDate=1463826771000&api=v2, 2016.

<table>
<tr><td>JOURNAL / CONFERENCE MANAGEMENT</td><td>

- Academic Editor, PLOS One
- Organizing Committee member, IEEE ACIT 2023

Journal Reviews

Journal of Supercomputing, ACM/Springer Wireless Networks (WINE), Elsevier Computer Communications, Elsevier Ad-hoc Networks, KSII Transactions on Internet and Information Systems, Wiley International Journal of Communication Systems, IEEE Transactions on Network and Service Management (TNSM), IEEE Transactions on Vehicular Technology (TVT), IEEE Access, IEEE Journal on Special Areas in Communication (JSAC), IEEE Communication Surveys and Tutorials, Wiley Wireless Communications and Mobile Computing (WCMC), Sensors, Applied Sciences, MDPI Electronics, MDPI Sensors, MDPI Sustainability, PLOS One

Conference TPC

IEEE ICWUS Conference, IEEE WCNC, ACM CHANTS Workshop, IEEE VTC-Spring, IEEE FIT, IEEE ICET, IEEE ICUFN, IEEE ISSPIT, IEEE C-Code, ACR, ICR, IEEE ACIT
</td></tr>
<tr><td>GRADUATE & UNDERGRADUATE COURSES TEACHING</td><td>

- **Graduate courses**
  - ➢ Networking Programming
  - ➢ Network Architecture Design (**Designed**)
  - ➢ Communication Networks: Architectures and Protocols (**Designed**)
  - ➢ Network Security
  - ➢ Mobile Networking

- **Undergraduate courses**
  - ➢ Fund. of Data Comm & Networking
  - ➢ Network Operating Systems
  - ➢ Computer Communications and Networks
  - ➢ Advanced Computer Networks
  - ➢ Enterprise Security
  - ➢ Electronics-I & II
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</table>

	➢ Engineering Analysis ➢ Computer Organization and Architecture ➢ Microprocessor & Computer Architecture ➢ Computer Programming ➢ Programming for Engineers I & II ➢ Introduction to Programming with MATLAB (**Designed**) ➢ Wireless Networks and Mobile System Architecture	➢ Instrumentation and Measurements ➢ Digital Logic Design ➢ Microprocessor Systems ➢ Data Structures and Algorithms ➢ Engineering Ethics ➢ Object-Oriented Programming and Data Structures
LANGUAGE COURSES	▪ Formation Professionelle (French) Intermediate Level (250 Hours) Pole Formation CCI, Colmar, France Jul 2006 – Sep 2006	▪ Cours de Français (FLE) Beginners Level (330 Hours) Alliance Francaise d'Islamabad **Distinction:** Tres Bien (82%) Jan 2006 – May 2006
MEMBERSHIPS	▪ Senior Member, IEEE ▪ Member, Pakistan Engineering Council (PEC) – COMP/2271 ▪ Member, Internet Society (ISOC) ▪ Member, Root Server Stability Advisory Committee (RSSAC) Caucus, ICANN ▪ Member, Non-Commercial Users Constituency (NCUC), ICANN ▪ Member, Pak-France Alumni Network (PFAN) ▪ Ex-Member, ICANN Nominating Committee ▪ Ex-Member, At Large Advisory Committee (ALAC) ▪ Ex-Member, ICANN Fellowship Mentoring Committee ▪ Ex-Member, SSR2 Review Team, ICANN ▪ Ex-President, Internet Society, Islamabad Chapter ▪ Ex-Board Member, Pakistan Networks Operator Group (PK-NOG)	
LANGUAGES	▪ Urdu (Native) ▪ English (Fluent) ▪ French (Good)	