Sahil Sholla, *PhD*

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Assistant Professor
Department of Computer Science and Engineering

Islamic University of Science and Technology, Awantipora
1-University Avenue Awantipora, Pulwama,
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EDUCATION

1. Doctor of Philosophy (Ph. D) in Engineering, Department of Computer Science and Engineering, National Institute of Technology (NIT) Srinagar
    - August 13, 2015 – November 15, 2019
    - CGPA: 9.3
    - Thesis Title: *Ethics Aware Internet of Things: An Approach to Computational Design of Ethics for Smart Things, Conceptual Framework and Implementation*
2. Master of Technology (M.Tech) in Communication and Information Technology, National Institute of Technology Srinagar
3. GATE (Graduate Aptitude Test in Engineering)
4. Bachelor of Engineering (B.E) in Computer Engineering, University of Kashmir

TEACHING

1. Assistant Professor, Department of Computer Science & Engineering, Islamic University of Science and Technology, Awantipora, March 26, 2018 to present.
2. Assistant Professor (contractual), Department of Computer Science & Engineering, National Institute of Technology Srinagar, September 2013 to August 2015.

SELECTED PUBLICATIONS

1. Iraq Ahmad Reshi and Sahil Sholla, "IBF Network: Enhancing Network Privacy with IoT, Blockchain, and Fog Computing on Different Consensus Mechanisms", Cluster Computing, 2024 (Accept).
2. Bisma Gulzar, Shabir Ahmad Sofi, Sahil Sholla, A Convergence of Personal Internet of Things into Social Internet of Things", Cluster Computing, 2024
3. Iraq Ahmad Reshi, Adil Malla, Sahil Sholla, Asif Ali Banka, “Harnessing

Blockchain for Resilient Emergency Message Dissemination in Vehicular Adhoc Networks", Int. J. of Vehicle Information and Communication Systems, 2024 (Accept).

4. Sholla, S. and Reshi, I.A. (2024), "Ethical reasoning in technology: using computational approaches to integrate ethics into AI systems", Journal of Information, Communication and Ethics in Society, 2024.
5. Gulzar, Bisma, Shabir Ahmad Sofi, and Sahil Sholla. 2024. "Cognitive Transformation in Personal IoT: Pioneering Intelligent Automation." Cyber-Physical Systems, October, 1–58. doi:10.1080/23335777.2024.2411736.
6. Iraq Ahmad Reshi and Sahil Sholla, Securing IoT Data: Fog Computing, Blockchain, and Tailored Privacy-Enhancing Technologies in Action, Peer-to-Peer Networking and Applications, 2024
7. Reshi IA, Shah AH, Jan A, Tariq Z, Sholla S, Rashid S, et al. Machine learning enhanced modeling of steel-concrete bond strength under elevated temperature exposure, Structural Concrete 2024.
8. Bisma Gulzar, Shabir Ahmad Sofi, Sahil Sholla, Exploring Personalized Internet of Things (PIoT), social connectivity, and Artificial Social Intelligence (ASI): A survey, High-Confidence Computing, 2024,
9. Iraq Ahmad Reshi, Sahil Sholla, Zahoor Ahmad Najar, Safeguarding IoT networks: Mitigating black hole attacks with an innovative defense algorithm, Journal of Engineering Research, Volume 12, Issue 1, 2024,
10. Reshi IA, Sholla S.(2023). The blockchain conundrum: An in-depth examination of challenges, contributing technologies, and alternatives. Concurrency Computat Pract Exper. 2023
11. Reshi Iraq Ahmad, Sholla Sahil (2022).Challenges for Security in IoT, Emerging Solutions, and Research Directions, Int. J. Com. Dig. Sys. (IJCDS) 12(1),1231-1241
12. Sholla, S., Mir, R. N., & Chishti, M. A (2021) A Fuzzy Logic Based Method for Incorporating Ethics in the Internet of Things. International Journal of Ambient Computing and Intelligence (IJACI). Accept.
13. Shamsul Haq, Adil Bashir, Sahil Sholla (2020), Cloud of Things: Architecture, Research Challenges, Security Threats, Mechanisms and Open Challenges, Jordanian Journal of Computers and Information Technology (JJCIT) 6(4), 415-433

14. Sholla, S., Mir, R. N., & Chishti, M. A (2020) A neuro fuzzy system for Incorporating Ethics in the Internet of Things, Journal of Ambient Intelligence and Humanized Computing 12 (1), 1487-1501
15. Sholla, S., Mir, R. N., & Chishti, M. A. (2019). Towards the Design of Ethics Aware Systems for the Internet of Things. China Communications, 16(9), 209–221.
16. Sholla, S., Mir, R. N., & Chishti, M. A. (2018). Eventuality of an Apartheid State of Things: An Ethical Perspective on the Internet of Things. International Journal of Technoethics (IJT), 9(2), 62-76.
17. Sholla, S., Mir, R. N., & Chishti, M. A. (2018). Docile Smart City Architecture: Moving Toward an Ethical Smart City. Int. J. Com. Dig. Sys. (IJCDS) 7(3), 167-174.
18. Sholla, S., Naaz, R., & Chishti, M. A. (2017). Ethics aware object oriented smart city architecture. China Communications, 14(5), 160-173**.**

BOOKS

1. Iraq Reshi and Sahil Sholla, Blockchain Beyond Borders: Ethical Challenges and Regulatory Solutions, Cambridge Scholars Publishing (Forthcoming)
2. Iraq Reshi and Sahil Sholla, Blockchain-based Internet of Things Opportunities, Challenges and Solutions, CRC Press, Taylor and Fransis, ISBN: 9781032524870
3. Sahil Sholla, Performance Evaluation of Clustering Algorithms in Wireless Sensor Networks (WSN). Energy Efficiency of S-Web and LEACH, GRIN Publishing GmbH, Munich, ISBN : 978-3-656-93001-3

NEW COURSES

1. “Advanced Computational Design of Ethics (CSE-805E) ” for PhD students at Computer Science and Engineering department, Islamic University of Science and Technology, Awantipora in 2019, which is based on my PhD research.

2. “Computational Design of Ethics (CSE-464E)” for B.Tech students at Computer Science and Engineering department, Islamic University of Science and Technology, Awantipora in 2018, which is based on my PhD research.

AWARDS/FELLOWSHIP

1. International Travel Support (ITS) by SERB for presenting paper at the IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE-2017), in Philadelphia, Pennsylvania USA (2017)
2. Ministry of Human Resource Development, Government of India, Doctoral Scholarship for pursuing Ph.D programme at NIT Srinagar (2015 to 2018).
3. Gate Assistantship, Ministry of Human Resource Development, Government of India during M.Tech at NIT Srinagar (2011 to 2013).
4. Merit Scholarship, Ministry of Minority Affairs, during B.E. (2006-2010).

RESOURCE PERSON

1. Expert lecture, AI Ethics, Institute of Technology Zakura, University of Kashmir (October 2025)
2. Expert lecture, Arabic Language and AI: Advancing Innovation While Preserving Cultural Heritage at the department of Arabic Language and Literature (December 2024)
3. Expert lecture, Ethically Aligned Design for IoT, at Central University of Kashmir (October, 2020).
4. Keynote Address, "Internet of Things: A Paradigm Shift" on World Telecommunication and Information Society day at NIT Srinagar (May 2016).
5. Expert lecture on "Multimedia Technologies" in at SSM College of Engineering and Technology, Pattan (August 2015).

Ph.D SUPERVISION

1. Ishrat Gul (2023-present)- IUST
2. Sana Khan (2023-present)- IUST
3. Iraq Reshi (2020-present))- IUST (AWARDED)
4. Bisma Gulzar (2022-present)- NIT SRI (AWARDED)
5. Sheikh Moin (2019-present) - NIT SRI