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Research Interests	Wireless networks, Edge Cloud/Fog Computing/Mobile Cloud Computing, Optical access networks, Smart grid, SDN, and Content delivery network (CDN).
Publications	**Publications in Brief:**

Publications in Brief:

	Published	Total impact factor of published journals	Quality of published journals	Total scopus Indexed article
Journals	25	68	10 Q1, 11 Q2 and 4 Q3 Journals	75
Conference	53			
Book chapter	2			

Selected published journals (2019-2022):

- Pg. Ali Kumar, D.S.N.K.; **S. H. Shah Newaz**; Rahman, F.H.; Lee, G.M.; Karmakar, G.; Au, T.-W: "Green Demand Aware Fog Computing: A Prediction-Based Dynamic Resource Provisioning Approach". *MDPI Electronics*, 2022, 11, 608. (SCIE, Impact factor: 2.397, Rank: **Q2**).[**Published, link**].
- Md Khaled Hasan, Md. Shamim Ahsan, Abdullah-Al-Mamun, **S. H. Shah Newaz** and Gyu Myoung Lee; "Human Face Detection Techniques: A Comprehensive Review and Future Research Directions" *MDPI Electronics*, 10, no. 19: 2354, 2021. [**Impact factor**: 2.397 SCOPUS, **Q2**] [**Published, link**].
- Yoon-Sik Yoo, Seung Hyun Jeon, S H Shah Newaz, Il-Woo Lee, Jun Kyun Choi; "Energy Trading among Power Grid and Renewable Energy Sources: A Dynamic Pricing and Demand Scheme for Profit Maximization"; *MDPI Sensors* 21, no. 17: 5819, 2021. (**Impact factor**: 3.576, SCOPUS, **Q2)** [**Published, link**].
- Fatin Hamadah Rahman, **S.H. Shah Newaz**, Thien-Wan Au, Wida Susanty Suhaili, M.A. Parvez Mahmud, Gyu Myoung Lee, "EnTruVe: ENergy and TRUst-aware Virtual Machine allocation in VEhicle fog computing for catering applications in 5G" Future Generation Computer Systems, 2021, (**SCIE, Impact factor: 7.187, Rank: Q1**) [**Published, link**].
- Fatin Hamadah Rahman, **S. H. Shah Newaz;** Au Thien-Wan, Wida Susanty Suhaili, Gyu Myoung Lee; "Off-Street Vehicular Fog for Catering applications in 5G/B5G: A Trust-based Task Scheduling Solution and Open Research Issues", in *IEEE Access*, vol. 8, pp. 117218-117235, 2020. (**SCIE, Impact factor: 3.745, Rank: Q1**) [**Published,** link]
- Ali Saeed Dayem Alfoudi, **S. H. Shah Newaz,** Abayomi Otebolaku, Gyu Myoung Lee, Rubem Pereira; " An Efficient Resource Management Mechanism for Network Slicing in a LTE Network", *IEEE Access,* Vol: 7, pp. 89441--89457, July 2019 (**SCIE, Impact factor: 3.745, Rank: Q1**), [**Published,** link]

Projects	**Current Projects**

Current Projects
- UTB internal grant (2022 ~ 2023), as a Principal Investigator, Project – *Mutual Trust Based Task Allocation in Fog Computing to Support Trustworthy Computation in 5G and Beyond*– Value: USD 6000.
- University of Jeddah grant (Sept. 2021~ Sept. 2022), as a Co-investigator, Project – Quality of Service Aware Green Heterogeneous Fog Computing – Value: USD$ 2500."
- AITI grant, Brunei Darussalam, as a contributor, Project – *5G use case project* (2021 -2022), Responsible for leading one of the use cases, titled "Mobile edge computing and Cloud assisted ultra-high-definition video streaming". (AITI provides all the equipment for the experiment and demonstration).