

**Attahiru S. Alfa** is Professor Emeritus at the University of Manitoba, Department of Electrical and Computer Engineering and Extraordinary Professor at the University of Pretoria, Department of Electrical, Electronic and Computer Engineering. Dr. Alfa's most recent research focus covers age of information, wireless sensor networks, cognitive radio networks, network restoration tools for wireless sensor networks, and the role of 5G on IoT, with specific interest in the mathematical modeling of those systems. His general research covers, but not limited to, the following areas: queueing theory and applications, optimization, performance analysis and resource allocation in telecommunication systems, modeling of communication networks, analysis of cognitive radio networks, modeling and analysis of wireless sensor networks, and smart cities. Some of his previous works include developing efficient decoding algorithms for LDPC codes, channel modeling, traffic estimation for the Internet, and cross layer analysis. Dr. Alfa also works in the application of queueing theory to other areas such as transportation systems, manufacturing systems and healthcare systems. He has authored two books, "Queueing Theory for Telecommunications: Discrete Time Modelling of a Single Node System", published by Springer in 2010, and "Applied Discrete-Time Queue" published in 2015, also by Springer, as a second edition of the first book. He also co-authored (with Dr. Ibrahim) a book titled: "Optimization Methods for User Admissions and Radio Resource Allocation for Multicasting over High Altitude Platforms" published by River Publishers in 2019.