**Talk Title:** Unbounded Protocols: Building Blocks of Scalable and Fault-tolerant Distributed Systems

**Abstract:** This talk will provide a brief overview of some of Ebnenasir’s past and ongoing projects related to design and implementation of highly dependable software such as Automated Air Traffic Management, Cyber Physical Systems, IoT networks, and synthesis of computationally-efficient neural networks for resource-constrained systems. Then, Ebnenasir will talk about his most recent research on automated synthesis and verification of unbounded distributed protocols that preserve their correctness, resilience and self-organizing properties regardless of their scale.

**Speaker Biography:** An associate professor of Computer Science, Ebnenasir completed his PhD. in Computer Science at Michigan State University. His research and teaching interests include software engineering, formal methods for software development, high assurance and dependable computing, parallel and distributed computing, and mission-critical embedded systems. Ebnenasir joined Michigan Tech in fall 2006.

Read more at blogs.mtu.edu/computing.