

# Computer Science Colloquium

## Ali Ebneenasir

### Michigan Tech

---

Friday, November 11, 2022

3 p.m. • Rekhi 214



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

**Abstract:** This talk will provide a brief overview of some of Ebneenasir'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, Ebneenasir 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, Ebneenasir 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. Ebneenasir joined Michigan Tech in fall 2006.

Read more at [blogs.mtu.edu/computing](https://blogs.mtu.edu/computing).