

IEEE IoT Journal Special Issue on Next-generation IoT for FinTech: Trends and Challenges

The advancement of smart communication technologies in day to day life has led to the development of various support systems for business and personal applications. The emerging phenomenon of next-generation internet of things (Nx-IoT) for FinTech is going to reveal one of the century's most significant moves towards smart worldwide economic diaspora. The estimated expenditure for the global economy of the web of things will be crossing \$2 trillion by the end of 2020. With the use cases of IoT in smart monetary applications, the Nx-IoT will be dominating security, payments, customer service, and internal operations with ubiquitously and AI-enabled. Using smart platforms, financial services, and context-aware can be optimized by contacting the customers and clients using personalized virtual supervision for ease of banking applications. With these features, the computations and communications become more vulnerable, and adequate security needs to be provided for these applications. Thus, the fraud protection and real-time personalized security for the customers and banking institutions need attention with AI-driven Nx-IoT as its core technology behind. Moreover, the cybersecurity tools, edge level encryption, point-of-sale systems, and other cyber-physical networking attract more significant innovations and attractions. Therefore, in this regard, the Nx-IoT is expected to play a significant role in massive FinTech applications. The broad area of interests by academic practitioners and researchers include network security for FinTech, fraud detection, resource management in ubiquitous grids, hybrid protocols, architectures for Nx-IoT, and other related applications. The special issue will serve as a platform to present state-of-the-art and contributions towards the various trends and challenges about securing FinTech with Nx-IoT model. The submitted work should be unpublished technical articles with a substantial novel contribution towards the scope. The topics of interest include, but are not limited to:

- AI-assisted techniques for FinTech
- Fog and Edge computations for FinTech devices
- Nx-IoT for smart payment platforms
- Resource optimization in financial services
- ML for real-time secure personal banking services
- Cyber-physical networking for Nx-IoT
- Data security, load balancing and resource management in FinTech
- Cloud virtualization and management for FinTech
- Big Data based Nx-IoT for FinTech
- Ambient intelligence architectures and model for Nx-IoT
- Software defined networking for FinTech
- Fuzzy-neuro based secure computing
- Secure sensor cloud and RAN for FinTech
- Recent trends in FinTech
- Predictive and automation analysis
- Financial IoT applications

Important Dates:

Submissions Deadline:	March 1, 2021	Second Review Due/Notification:	August 1, 2021
First Review Due	May 15, 2021	Final Manuscript Due:	August 15, 2021
Revision Due:	June 30, 2021	Publication Date:	2021

Submission Format and Guideline

All submitted papers must be clearly written in excellent English and contain only original work, which has not been published by or is currently under review for any other journal or conference. Author guidelines and submission information can be found at <http://iot.ieee.org/journal>. All manuscripts and any supplementary material should be submitted through IEEE Manuscript Central, <http://mc.manuscriptcentral.com/iot>. The authors must select as "SI: Next-generation IoT for FinTech" when they reach the "Article Type" step in the submission process.

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