

# The 21<sup>st</sup> IEEE International Conference on Autonomous and Trusted Computing (ATC2024)

December 2<sup>nd</sup>-7<sup>th</sup>, Denarau Island, Fiji

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## Call for Papers

The 21st IEEE International Conference on Autonomous and Trusted Computing (ATC 2024) builds upon a rich legacy spanning two decades, serving as a preeminent forum for researchers and practitioners in the field of autonomous and trusted computing. Nowadays, various kinds of novel computing concepts are emerging to enhancing our real and virtual worlds towards smart worlds as well as cyber-physical-social-thinking integrated hyper worlds. Accordingly, computing systems are growing in capability and complexity including hardware, software, communications, networks, platforms, services, etc. Autonomous and trusted computing (ATC) aims to discover, develop, and deploy novel networks and systems and their applications.

The main conference of ATC 2024 will be held on 2th-7th December 2024 at Denarau Island, Fiji, and will provide a high-profile, leading-edge forum for scientists, engineers, and researchers to discuss and exchange novel ideas, results, experiences, and work-in-process around the autonomous and trusted computing. ATC conferences have taken a leading role in addressing these challenges and achieving practical advanced computing systems with truly trustworthy services.

## IEEE ATC 2024 Tracks and Topics

### Track 1: Control & Decision

- ✦ Distributed Control Theory and Applications
- ✦ Automation and Robotics
- ✦ Intelligent Control Systems
- ✦ Networked Control
- ✦ Cybersecurity
- ✦ Cyber Trust
- ✦ Fusion Decision
- ✦ Artificial Intelligence in Control and Decision
- ✦ Data-Driven Control and Decision
- ✦ Multi-Criteria Decision Making

### Track 2: Fusion & Tracking

- ✦ Target Detection
- ✦ Multiple Target Tracking
- ✦ Distributed Target Tracking
- ✦ Optoelectronic/Infrared Target Tracking
- ✦ Extended/Group Target Tracking
- ✦ Tracking of Weak and Small Targets
- ✦ Multiple Target Data Association
- ✦ Multiple Sensor Information Fusion
- ✦ Belief Propagation/Message Passing Algorithm
- ✦ Random Finite Set Theory and Methods

### Track 3: Trusted Computing

- ✦ Trust, Security, and Privacy
- ✦ Blockchain Technology and Applications
- ✦ Applied Cryptography
- ✦ Network Security
- ✦ Cloud Computing Security
- ✦ Economics of Security and Privacy
- ✦ Privacy-Enhancing Technologies
- ✦ Attacks with Novel Insights, and Techniques
- ✦ Machine Learning and Computer Security
- ✦ Systems Security

### Track 4: Autonomous Driving & Systems

- ✦ Autonomous Computing
- ✦ Autonomous Robot
- ✦ Autonomous Intelligence
- ✦ Internet of Things
- ✦ Edge Computing
- ✦ Vehicle Sensor Fusion
- ✦ Vehicle Scheduling
- ✦ High-performance Embedded Computation
- ✦ Decision and Planning
- ✦ Target Tracking/Recognition

## Important Dates

**Workshop Proposal Due:** 15 April, 2024  
**Paper Submission:** 04 August, 2024  
**Author Notification:** 15 September, 2024  
**Camera-Ready Submission:** 15 October, 2024  
**Conference Dates:** 02-07 December, 2024

## Paper Submission & Publication

All papers need to be submitted electronically through the conference submission website (EDAS) in PDF format at (coming soon). Accepted conference papers will be published by IEEE (IEEE-DL and EI indexed). At least one author of each accepted paper is required to register and present their work at the conference. Best paper awards will be presented at the conference. Selected high quality papers will be nominated to publish at high-level journal, after further extensions and revisions.

## Co-located with Five Conferences as IEEE Smart World Congress 2024

- The 21st IEEE International Conference on Ubiquitous Intelligence and Computing (UIC2024)
- The 2024 IEEE International Conference on Digital Twin (DigitalTwin 2024)
- The 2024 IEEE International Conference on Metaverse (Metaverse 2024)
- The 10th IEEE International Conference on Privacy Computing and Data Security (PCDS 2024)
- The 24th IEEE International Conference on Scalable Computing and Communications (ScalCom 2024)

IEEE ATC 2024 Website: <https://www.ieee-smart-world.org/2024/atc/>

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