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| **Title:** | | | New ITU Journal on Future and Evolving Technologies (ITU J-FET) | | |
| **Purpose:** | | | Information | | |
| **Contact:** | | Alessia Magliarditi | | | Tel: +41 22 730 5882  E-mail: [alessia.magliarditi@itu.int](mailto:alessia.magliarditi@itu.int) |

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| **Keywords:** | ITU Journal; future and evolving technologies; scholarly; professional publication; digital; free of charge; editorial board; communications and networking paradigms; fundamental and applied research; policy and regulation; legal frameworks; economy and society; Tsinghua University Press; integrated; networks; joint publication. |
| **Abstract:** | This document provides information on the launch of the new ITU Journal on Future and Evolving Technologies (ITU J-FET), and announces the publication of the first special issue of the ITU-TUP joint Journal on Intelligent and Converged Networks (ICN). |

# 1 Introduction

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The ITU Journal embarks on a new chapter in the publication of academic research. With a new Editor-in-Chief, Prof. Akyildiz from the ITU Academia member Georgia Institute of Technology​, United States, the [ITU Journal on Future and Evolving Technologies (ITU J-FET)](https://www.itu.int/en/journal/j-fet/Pages/default.aspx) was launched in August 2020. This international publication will continue to provide original scientific research as well as complete coverage of all communications and networking paradigms, free of charge to both readers and authors.

# 2 Aim and scope

The ITU Journal considers yet-to-be-published papers addressing fundamental and applied research. It shares new techniques and concepts, analyses and tutorials, and learnings from experiments and physical and simulated testbeds. It also discusses the implications of the latest research results for policy and regulation, legal frameworks, and the economy and society. This publication builds bridges between disciplines, connects theory with application, and stimulates international dialogue. Its interdisciplinary approach reflects ITU’s comprehensive field of interest and explores the convergence of ICT with other disciplines.

# 3 Editorial Board

[Prof. Ian F. Akyildiz](https://www.itu.int/en/journal/j-fet/Pages/editorial-board.aspx) is the Ken Byers Chair Professor Emeritus in Telecommunications and Director of the Broadband Wireless Networking Laboratory at the Georgia Institute of Technology. He holds an h-index of 123, the number of citations to his papers exceeds 119,000, he has supervised more than 45 PhD candidates, and has served as founding Editor-in-Chief of four successful journals.

The [Editorial​ Board​​​](https://www.itu.int/en/journal/j-fet/Pages/editorial-board.aspx) of the new ITU Journal has been established and includes over 60 Editors, (gender-balanced) ICT international experts, whose outstanding profiles are available at the Journal’s webpage.

# 4 Topics, review and publication processes

The ITU Journal welcomes submissions at any time, on any topic within its scope.​​​ Specific topics (76) of interest include, but are not limited to:

* ​Communication network architectures
* Communication network protocols
* Network services and applications
* Network security and privacy
* Security, privacy and trust (e.g. trusted information infrastructure)
* Network operation and management
* Autonomous networks​
* Internet of Things
* Underwater communication
* Underground communication
* Reconfigurable frontends architectures
* Dynamic spectrum sharing
* TeraHertz communications
* mm-waves systems
* Internet of Sp​ace Things with CubeSats/unmanned autonomous vehicles/drones
* Satellite networks
* Deep space networks
* Quantum communication
* Holographic communication
* MIMO, massive MIMO, MultiUser MIMO systems
* Cell free massive MIMO communications
* Intelligent communication environments
* Pervasive AI and machine learning algorithms
* SDN/NFV and network automation
* Communication in challenged environments
* Cellular systems (4G, 5G and 6G and Beyond) wireless systems
* Mobile and wireless ad hoc networks
* Wireless sensor networks
* LORA and SigFox (wide area sensor networks)
* Wireless local and personal area networks
* Vehicular ad hoc networks (VANETs)
* Novel architectures for ad hoc and sensor networks
* Transport layer protocols
* Routing protocols
* Media access control protocols
* Error control algorithms
* Power-aware, low-power and energy-efficient designs
* Mobility management
* Location tracking and location-based services
* Resource and information management
* Hardware and software platforms, systems, and testbeds
* Experimental and prototype results
* Performance analysis and simulation of protocols
* Physical layer issues of all communication paradigms
* Channel modeling
* Detection and estimation
* Modulation and coding
* Multiplexing and carrier techniques
* Multimedia communications over wireless
* DSP applications to wireless systems
* Multiple access techniques
* Synchronization techniques
* Software radios
* Localization and tracking
* Resource allocation and inference management
* Multi-rate and multi-carrier communications
* Cross layer design and optimization
* Propagation and channel characterization
* OFDM systems
* MIMO systems
* Cognitive radio system architectures
* Platforms and hardware implementations for the support of cognitive, radio systems
* Cognitive radio networks resource management
* NanoScale communications and networking
* Internet of BioNanothings
* Internet of NanoThings
* Molecular communications
* Open-source solutions
* Transport, access, home
* Video coding, e-everything (e.g., e-health)
* Accessibility and multimedia standardization
* ICT and the environment
* Digital financial service (e.g., mobile money)​
* Big data, cloud services
* Bridging gaps (standards, technology)
* Intellectual property rights

All papers submitted to the ITU Journal are single-blind peer-reviewed. For detailed information please read ​the [submission guidelines](https://www.itu.int/en/journal/j-fet/Pages/submission-guidelines.aspx) and [review policy](https://www.itu.int/en/journal/j-fet/Pages/review-policy.aspx) section. ​As soon as they get accepted, papers will be continuously published on the ITU website. They will then be bundled into regular issues.

Special issues will also be published and will focus on specific emerging topics.

Papers are free of charge for both readers and authors. For additional information please read the​ [publication rights and copyright](https://www.itu.int/en/journal/j-fet/Pages/publication-rights-copyright.aspx) section.

# 5 First special issue of the joint journal with Tsinghua University Press

In January 2019, ITU and Tsinghua University signed a Memorandum of Understanding and subsequently, a co-publishing agreement involving Tsinghua University Press (TUP). Under this agreement, a joint publication has been created with the objective of advancing research in ICTs.

The joint Tsinghua University Press-ITU publication is titled [Intelligent and Conver​ged Networks (ICN)​](http://icn.tsinghuajournals.com/EN/2708-6240/home.shtml), and has already published (March 2020) its first special issue, which includes the [Foreword](http://icn.tsinghuajournals.com/EN/10.26599/ICN.2020.907.I001) of the ITU Secretary-General, Mr. Zhao.

Under the leadership of the Editor-in-Chief, Prof. Jian Song from the ITU Academia member Tsinghua University, China, our joint journal is currently preparing two new special issues and calling for papers on [Data Driven Intelligence, Sustainability, and Systems](http://icn.tsinghuajournals.com/EN/column/item1649.shtml) and [Artificial Intelligence Aided 6G Communications](http://icn.tsinghuajournals.com/EN/column/item1647.shtml).

Additional information, including the [Editorial Board](http://icn.tsinghuajournals.com/EN/column/column8076.shtml), [policies and ethics](http://icn.tsinghuajournals.com/EN/column/column8082.shtml), and [contact details](http://icn.tsinghuajournals.com/EN/column/column8078.shtml), is available at the ICN’s homepage.

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