



General Secretariat (SG)

Geneva, 13 April 2018

Ref: **CL-18/22**
TSB/AM

- To Administrations of ITU Member States;
- To ITU Sector Members, Associates, Academia and relevant international, regional and national organizations

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Subject: **Call for papers - ITU Journal: *ICT Discoveries* second special issue on “Data for Good”**

Dear Sir/Madam,

1 As part of the scholarly, professional ITU Journal: *ICT Discoveries*, which was established in order to encourage the participation of universities and research institutions in the work of the ITU, I am pleased to inform you about the launch of the call for papers for the second special issue titled ‘Data for Good’. The full text can be found in **Annex 1**. Paper submissions are invited by **29 June 2018**.

2 The ITU Journal matches research on technical innovation in information and communication technologies (ICTs) with an analysis of the transformations in business, society and governance in the digital era. The Journal also promotes the critical role that ICTs will play in the pursuit of the United Nation’s Sustainable Development Goals for 2030. As a peer-reviewed, open access, digital publication, available at no cost, the ITU Journal will help industry players and policy makers prepare for the major breakthroughs in research.

3 Submissions are open to all ITU Member States, Sector Members, Associates and Academic Institutions and to any individual from a country which is a member of ITU who wishes to contribute to the work. This includes individuals who are also members of international, regional and national organizations. There are no author’s fees upon contribution.

4 We encourage all ITU members to promote the call for papers within the academic community of their countries. This call for papers is also available to download from our website at <https://www.itu.int/en/journal/002/Pages/default.aspx>.

5 Detailed information concerning the ITU Journal: *ICT Discoveries* as well as information on the recently published first special issue on ‘The Impact of Artificial Intelligence on communication networks and services’, can be found on our website at <https://www.itu.int/en/journal/Pages/default.aspx>.

Yours sincerely,

[signed]

Houlin Zhao
Secretary-General

ANNEX 1
(to CL-18/22)

ITU Journal: ICT Discoveries

The ITU Journal: ICT Discoveries publishes original research on telecommunication/ICT technical developments and their policy and regulatory, economic, social and legal dimensions. It builds bridges between disciplines, connects theory with application, and stimulates international dialogue. This interdisciplinary approach reflects ITU's comprehensive field of interest and explores the convergence of telecommunication/ICT with other disciplines. It also features review articles, best practice implementation tutorials and case studies.

Issue No. 2
Data for Good
Call for papers

Data, in today's world, has the potential to deliver more cutting edge, citizen-centric public services, and bring automation and intelligence to industry while addressing the greatest challenges to human health and environment. With the amounts of data being produced by individuals and society today, the boundaries on research, sustainable development and the economy are being pushed back further and new ways for human and machine activity are being unlocked.

The opportunities brought about by the rapid growth of data are, however, coupled with concern. Questions surrounding the privacy and security of data, how data is generated, labelled and collected and whether or not the data at our disposal can be trusted, all represent crucial issues in the discussion on data governance and societal advancement. The policy, regulatory, legal and ethical aspects are as pertinent to the discussion, adding a deeper dimension to the dialogue.

The second special issue of the ITU Journal will share insight into the increasing sophistication of the techniques used to exchange and understand data, while also exploring how data can safely fuel more autonomous, human-centric information and communication technologies.

Suggested topics (but not limited to):

Data enabled infrastructures, networking and computing	<ul style="list-style-type: none">• Infrastructures and architectures for data-driven networking• Distributed systems, parallel and distributed computing• Mechanisms and protocols for data processing and management• Cloud computing techniques and capabilities for data management as a service (DMaaS) and Big Data as a service (BDaaS)• Data in mobile and pervasive computing• Data synchronization, migration and backup• Control and management of data mining, access, acquisition and storage• Trusted data-driven computing, security and privacy• Use of blockchain for trustworthy data processing and management• Data driven autonomous analysis of network and service performance• Enhancing capacity and capability for data storage and exchange• Platforms for open data• Data processing and managements to/from wireless sensors and actuators in IoTs and networks• Data-driven energy efficient, sustainable power management
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Data applications and services	<ul style="list-style-type: none">• Data retrieval, processing, analysis, and analytics• Data semantics, interoperability and search• Data quality and provenance• Data formats for integrated and consolidated realization of “Data as Oil (DaO)”• Data tailoring for various e-services (e-education, farming, health, shopping, etc)• Quality and trust of Data (QoD and ToD) for trade, industry, government and society• Data for smart sustainable cities and the urban environment• Data for research, science and technology• Data and human interaction
Social, economic, legal, policy and environmental aspects for data access, use and management	<ul style="list-style-type: none">• Data standardization, policies and regulation, data governance• Legal aspects of data standards and standardization• Standardization management and strategies for data-driven industry and society• Data ownership models, open data licensing• Business models for data and open data• Ecosystem of data production, distribution and utilization• Management of data-centric innovation• Marketing of innovations in the data economy including commercialization and monetization• Inclusiveness, affordability and access to data• Societal issues on trustworthy data, security and privacy• Green, energy-efficient models and sustainability issues for data• Open data for public good

Keywords

Information and communication technologies (ICTs), standards, standardization, technological innovation, information society, converging technologies, big data, data formats, analytics, data mining, database, open data platform, cloud computing, ubiquitous networks, internet of things, e-applications, trustworthiness, security, privacy, reliability, smart grid, mobile banking services, radio spectrum, sustainability, development, access, equality, inclusiveness.

Deadlines

Paper submission: **29 June 2018**

Paper acceptance notification: 10 September 2018

Paper submission

Submissions must be made electronically using EDAS: Editor’s Assistant. Templates and guidelines can be found at: <https://www.itu.int/en/journal/002/Pages/default.aspx>

Publication

As soon as they are accepted, papers will be continuously published on the ITU digital library. They will then be bundled into a yearly volume.

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Additional information

Please visit the ITU Journal website at: <https://www.itu.int/en/journal/Pages/default.aspx>

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