



The ITOC and TACC Workshops will be held as part of the ICSTI 2017 General Assembly and Workshops event on Thursday 26th October 2017 in Washington D.C.
The event is hosted by the Library of Congress.

Workshop Information

ITOC Workshop Click here for [Final Program](#)

The Information Trends and Opportunities Committee (ITOC) is the catalyst for strategic thinking of ICSTI. It conducts foresight/horizon scanning to identify trends and opportunities of interest and relevance to ICSTI members. The **Chair of ITOC is Margret Plank**, Head of Competence Center for non-textual Materials at the German National Library of Science and Technology (TIB).

Workshop Description

Next generation metrics for open science

As science shifts towards collaborative endeavour, transparency of process and increasing significance of data driven research, new modes of work and expertise are emerging in academia. However, common metrics which aim to benchmark the impact and value of research mostly emphasize traditional scientific outputs (publications in high impact journals). Novel bases and methods of research and forms of scholarly communication are not included, e.g. data curation, data publication, new modes of scientific output including video abstracts, blogs, micropublications and the sharing of scientific tools and software. To develop new modes of scholarly communication and activity that ensure transparency, reproducibility and reusability, additional systems are necessary to recognize and value new scientific roles (e.g. data experts) and new incentive/accreditation processes for science researchers. This workshop presents thoughts on how to address these imperatives for change.

Presenters (Alphabetical Order)

Julia Klebanov, Moore Foundation

Presentation title: *Funding basic science: balancing elusive impacts and rigorous measurement*

Julia Lane, NYU Wagner School, Center for Urban Science and Progress

Presentation title: *Measurement matters*

Vincent Larivière, École de bibliothéconomie et des sciences de l'information, Université de Montréal

Presentation title: *What do open science indicators measure?*

Daniella Lowenberg, California Digital Library

Presentation title: *Make Data Count*

Paul Wouters, Director Centre for Science and Technology Studies, Leiden University

Presentation title: *Next generation indicators for open science*

TACC Workshop Click here for [Final Program](#)

ICSTI's **Technical Activities Coordinating Committee (TACC)** typically focuses on exploring and communicating technical aspects of innovative trends in information science-based tools that help make STI more useable and accessible. The **Chair of TACC is Brian Hitson**, Director US DOE/Office of Scientific and Technical Information (DOE/OSTI).

Workshop Description

Machine Learning and Its Applications to Scientific and Technical Information

Machine learning may be the next great innovation in knowledge search and discovery. Machine learning describes what happens in machines that get trained to perform a task by exposure to examples of what they're supposed to learn. It's already happening all around us in the development of facial and object recognition; self-driving cars; instant language translation; and speech recognition. This workshop will explore machine learning and its applications relevant to science and, more specifically, to various forms of scientific and technical information, including images, data, and text.

Presenters (Alphabetical Order)

Lee Angelelli, IBM

Presentation title: *Applying Cognitive Computing to Understand and Answer Users Information Needs*

Andrew Fast, CounterFlow AI

Presentation title: *A Brief History of Machine Learning*

Andrew McCallum, University of Massachusetts

Presentation title: *AI for Representation and Reasoning in Knowledge Bases of Science*

Ray Shan, Yewno

Presentation title: *Using AI to enhance Biomedical research*

Georgia Tourassi, Oak Ridge National Laboratory

Presentation title: *Deep Learning Enabled National Cancer Surveillance*