# **Special Issue**

# Interactive Visual Analytics: Bridging Human Cognition and Complex Data

## Message from the Guest Editors

In an era defined by an unprecedented deluge of data, the ability to extract meaningful insights, detect patterns, and make informed decisions is more critical and challenging than ever. Visual Analytics has emerged as a powerful scientific discipline to address this challenge, integrating automated data analysis with interactive visualizations to create a synergistic humanin-the-loop process. At the heart of this discipline is interaction, the mechanism that empowers users to navigate, manipulate, and query vast data spaces, transforming static images into dynamic analytical dialogues.

This Special Issue aims to bring together leading researchers and practitioners to share the latest advances in the theory, design, application, and evaluation of Interactive Visual Analytics (IVA). We are particularly interested in novel work that pushes the boundaries of how human cognition can be augmented through interactive systems to tackle the scale and complexity of modern datasets, from scientific research and business intelligence to the growing demands of explainable AI.

## **Guest Editors**

Prof. Dr. Kamran Sedig

Department of Computer Science, Faculty of Information and Media Studies, The University of Western Ontario, London, ON N6A 3K7, Canada

Dr. Sheikh Shaugat Abdullah

Department of Computer Science, Western University, London, ON, Canada

## Deadline for manuscript submissions

30 April 2026



## Data

an Open Access Journal by MDPI

Impact Factor 2.0 CiteScore 5.0



mdpi.com/si/249651

Data
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
data@mdpi.com

mdpi.com/journal/ data





## **Data**

an Open Access Journal by MDPI

Impact Factor 2.0 CiteScore 5.0



## **About the Journal**

## Message from the Editor-in-Chief

Data is an open access journal that publishes scientific data in a reliable, citable, and accountable manner. Data grants the opportunity to formally share valuable data, for academic credit. It covers a wide range of disciplines in which data is generated so that published data is discoverable and available for wider re-use. The journal has highly accomplished scientists from a variety of disciplines on the editorial board. The publication emphasizes clarity, honesty, quality, and novelty and has a rigorous peer-review process. We strongly encourage you to share your data vision in Data.

#### Editor-in-Chief

Prof. Dr. Jamal Jokar Arsanjani

Geographic Information Science, Department of Planning and Development, Aalborg University Copenhagen, A.C. Meyers Vænge 15, DK-2450 Copenhagen, Denmark

## **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

indexed within Scopus, ESCI (Web of Science), Ei Compendex, dblp, Inspec, RePEc, and other databases.

## **Journal Rank:**

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q2 (Information Systems and Management)

