

# DATA MINING AND APPLICATIONS

## GUEST EDITORS

---

Prof. Dr Cai Tay, Shanghai Jiao Tong University, China, e-mail: [cai.tay@qq.com](mailto:cai.tay@qq.com)

Dr. Darren Jones, INWASCON, Malaysia, e-mail: [jones@inwascon.org.my](mailto:jones@inwascon.org.my)

## ADVISORY EDITOR

---

Dr. Ioannis Dimitriou, University of Patras, Greece, e-mail: [idimit@upatras.edu.gr](mailto:idimit@upatras.edu.gr)

## DESCRIPTION

---

Data mining has developed ever since its invention in various specific fields dealing with raw data, media, geospatial, web, and text. Its potential has increased by hybridizing other subsymbolic algorithms, such as genetic algorithms. Data mining adds value in many practical fields, such as health, biology, and emergency situations, but its true power is expressed in the context of the Internet of Things. The purpose of this Special Issue is to gather a collection of articles reflecting the latest developments in data mining and related fields, both in terms of practical and theoretical applications: Optimization methods parallel and distributed data mining algorithms, learning algorithms, knowledge discovery and extraction, image analysis, classification and clustering, heuristics and metaheuristics, soft computing, operation research, business analytics, and many others.

This thematic special issue in *Open Mathematics* is devoted to the publication of short communications, reviews and research articles. Contributions to the Special Issue may address (but are not limited) to the following aspects:

- ▶ Optimization methods
- ▶ Probabilistic and statistical methods
- ▶ Parallel and distributed data mining algorithms
- ▶ Learning algorithms
- ▶ Feature extraction, selection, and dimensionality reduction
- ▶ Knowledge discovery and extraction
- ▶ Image analysis
- ▶ Classification and clustering
- ▶ Mining data streams, graphs, and complex data
- ▶ Mining semistructured data
- ▶ Spatial data mining
- ▶ Mining text, web, and social media

- ▶ Multimedia data mining
- ▶ Personalization and recommendation systems
- ▶ Data mining visualization
- ▶ Heuristics and metaheuristics
- ▶ Soft computing
- ▶ Computational complexity
- ▶ Process modeling
- ▶ Operation research
- ▶ Pattern recognition
- ▶ Uncertainty management

Authors are requested to submit their full revised papers complying the general scope of the journal. The submitted papers will undergo the standard peer-review process before they can be accepted. Notification of acceptance will be communicated as we progress with the review process.

## HOW TO SUBMIT

---

Before submission authors should carefully read the Instruction for Authors, available online at: [www.degruyter.com/publication/journal\\_key/MATH/downloadAsset/MATH\\_Instruction\\_for\\_Authors.pdf](http://www.degruyter.com/publication/journal_key/MATH/downloadAsset/MATH_Instruction_for_Authors.pdf).

Manuscripts can be written in TeX, LaTeX (strongly recommended) - the journal's [LATEX template](#). Please note that we do not accept papers in Plain TEX format. Text files can be also submitted as standard DOCUMENT (.DOC) which is acceptable if the submission in LATEX is not possible. **For an initial submission, the authors are strongly advised to upload their entire manuscript, including tables and figures, as a single PDF file.**

All submissions to the Special Issue must be made electronically via online submission system Editorial Manager: [www.editorialmanager.com/openmath](http://www.editorialmanager.com/openmath).

All manuscripts will undergo the standard peer-review process (single blind, at least two independent reviewers). When entering your submission via online submission system please choose the option "*Special Issue on DATA MINING AND APPLICATIONS*".

Submission of a manuscript implies that the work described has not been published before and it is not under consideration for publication anywhere else.

**The deadline for submissions is 30<sup>th</sup> April, 2021**, but individual papers will be reviewed and published online on an ongoing basis.

Contributors to the Special Issue will benefit from:

- ▶ critical peer-review
- ▶ no space constraints
- ▶ quick online publication upon completing the publishing process (**continuous publication model**)
- ▶ content converting to xml
- ▶ better visibility due to **Open Access** – free, unrestricted and permanent access to all the content

- ▶ **liberal policies on copyrights** (authors retain copyrights) and on self-archiving (no embargo periods)
- ▶ promotion of published papers to readers and citers
- ▶ **long-term preservation** – content archiving with Portico

We are looking forward to your submission!

In case of any questions please contact:

**Dr. Justyna Żuk** (Managing Editor; [Justyna.Zuk@degruyter.com](mailto:Justyna.Zuk@degruyter.com)).