

## DMPI-APP 2022

### Special Session on Data Modelling and Processing: *Air Pollution Prevention*

at the 14<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2022)

Almaty, Kazakhstan, June 6-9, 2022

Conference website: <http://www.aciids.pwr.edu.pl/2022>



### Special Session Organizers

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### Objectives and topics

Following the success of the previous editions of DMPI sessions focused on Industry 4.0, we strive to promote the most ambitious and innovative approaches towards the modeling of air pollution prevention systems.

Our world faces serious Air pollution which has become a serious issue lately. It causes climate change and decreases the quality of life in metropolitan areas. Among many research that aims at modeling this phenomenon, we want to promote those that try to show means for minimizing the effect of pollution on the environment.

The scope of the session includes but is not limited to the following groups of topics concerning air pollution prevention systems:

#### AIR POLLUTION MODELING

- active air pollution prevention
- air pollution models
- air pollution prediction
- city abstraction models
- city pollution models
- city pollution monitoring
- dispersion models
- regression models
- sensors design

#### DATA ANALYSIS

- cognitive methods
- data analysis
- data-driven process optimization
- data engineering: technologies and applications
- data mining
- data science
- machine learning

- prediction models
- predictive data analysis
- signal processing
- stochastic methods

#### IT SYSTEMS ARCHITECTURE

- adaptive systems
- business process modeling
- cognitive systems
- data and database metamodels
- data modeling: tools and applications
- human-system interaction
- intelligent agents
- knowledge engineering: tools and applications
- knowledge-based systems
- modeling languages
- multi-agent systems
- ontology engineering

## Important dates

Submission of papers: **January 15, 2022 (EXTENDED - HARD)**

Notification of acceptance: **March 1, 2022**

Camera-ready papers: **March 15, 2022**

Registration & payment: **March 15, 2022**

Conference dates: **June 6-9, 2022**

## Program Committee

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## Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors should submit their papers electronically in pdf format, through EasyChair. All the special sessions are tracked in the same conference management system as the regular papers. Therefore, to submit an article, please activate the following link and select the track: ***DMPI-APP 2022: Special Session on Data Modelling and Processing: Air Pollution Prevention.***

All original previously unpublished research papers written in English, of up to 13 pages, strictly following the LNCS/LNAI format guidelines are welcome for publication. Authors can download the Latex (recommended) or Word templates available at [Springer's website](#). Submissions not following the format guidelines will be rejected without review. For the sake of high quality, all papers will undergo a thorough review by the DMPI -APP 2022 Program Committee. At least one author of each accepted article must register for the conference and pay the fee, as well as present the research during the ACIIDS 2022.

Springer will publish the conference proceedings in the prestigious series LNCS/LNAI or CCIS (indexed by ISI CPCI-S, included in the ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).