



**WSOM+ 2022** will take place in the ancient city lying in the heart of Europe, Prague, the capital of Czechia. It immerses ourselves within theoretical and methodological findings regarding the systems of the **data self-organization** and **unsupervised learning**. The conference is the 14th step in our journey started twenty-five years ago in Helsinki.

**WSOM+** invites contributions related to the theoretical and methodological aspects of **Unsupervised learning, Self-Organizing Maps, Learning Vector Quantization, Clustering, Data Visualization and closely related topics, including but not limited to:**

- Data analysis and visualization
- Clustering and visualization performance metrics
- Time series analysis and signal processing
- Mathematical approaches including information theory, mathematical statistics and statistical Machine Learning
- Software and hardware implementations
- Architectural solutions including hierarchical and growing networks, ensemble models and special metrics
- Unsupervised feature selection, extraction and data pre-processing.
- Interpretable and explainable models
- Large-scale data analysis (Big Data)
- Unsupervised models in computational neuroscience
- Models, experimental investigations and applications of autonomous mental development.

It is also called for and encouraged **scientific and application-oriented papers that demonstrate the use of the aforementioned methods and models in different areas including but not limited to:**

- Data mining, stream and process mining; Knowledge management; Anomaly detection and outlier analysis; Industrial applications; Scientific applications; Bioinformatics, biostatistics and applications; Telecommunications; Transport optimization; Cognitive modeling; Language modeling; Robotics and intelligent systems; Pattern recognition; Image processing and vision; Speech processing and text and document analysis

## Important Dates

Paper submission:	March 25 April 8, 2022
Notification of provisional acceptance:	May 5, 2022
Camera-ready papers:	May 15, 2022
Final acceptance:	May 22, 2022
Registration opens:	April 30, 2022
Author registration deadline*:	May 20, 2022
Early registration deadline:	May 31, 2022
Registration deadline:	June 16, 2022

\*Authors of the accepted papers must register before and the payment must be received by this date.

## Organization

### Local Committee

- Jan Faigl (FEE, CTU)
- Jan Drchal (FEE, CTU)

### Publication Co-Chair

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## Contacts

- Jan Faigl [faigl@fel.cvut.cz](mailto:faigl@fel.cvut.cz)

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## Publication

The WSOM+ 20220 proceedings will be published as a book in Lecture Notes in Networks and Systems book series indexed by Scopus.

<https://www.springer.com>



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