

## Call for Contributions

**1. Inform the Chair:** with the Title of your Contribution

**2. Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=PATTERNS+2022+Special>

Please select Track Preference as **AI-DRSWA**

### Special track

## AI-DRSWA: Maturing Artificial Intelligence - Data Science for Real-World Applications

### Chair

Joschka Kersting, Paderborn University, Germany

[joschka.kersting@upb.de](mailto:joschka.kersting@upb.de)

along with

**PATTERNS 2022, The Fourteenth International Conference on Pervasive Patterns and Applications**

April 24 - 28, 2022 - Barcelona, Spain

<http://www.iaria.org/conferences2022/PATTERNS22.html>

The world's data is growing enormously, while DeFi and blockchains have taken off. Recently, great advancements have been made in Artificial Intelligence (AI). This applies to machine learning and data science in general and Natural Language Processing (NLP) in particular. However, AI is often developed for research purposes instead of real-world applications. This special track aims at collecting studies laying an application focus on submitted studies. Hence, the state-of-the-art is enhanced by applicable research results that do not focus on percentage gains in evaluation scores, but on solving problems for usage in the real world. Organizations may use them as a blueprint for own developments.

Areas of interest from the AI progress are data science fields such as industrial data engineering and analysis, as well as data-dependent identification and analysis research. While text generation and text-to-code solutions are thriving topics, their applicability for small and medium-sized enterprises as well as other (public) organizations is limited. Analysis solutions such as text classification, information extraction, and connected engineering solutions are for most practitioners the topics in need.

Moreover, AI has made advancements that help modern societies that ask for hate speech, threat and fake news detection amid the growing amount of user-generated data. AI systems that, as an example, only extract one hateful word and category per text review while there may be three of it, is not focused on applicability and usability for real-world scenarios. Many studies handle the scenarios like this, while practitioners are in need of comprehensive solutions.

### Topics include, but are not limited to:

- Applied Data Science
- Industrial Data Engineering and Analysis
- Software Description Analysis
- Applied Neural Natural Language Processing
- Human-centered Data Comprehension
- Neural Information Processing

- Sentiment Analysis for User-generated Datasets
- Hate Speech and Fake News Detection
- Data-dependent Risk Identification and Analysis in Networks
- Non-English Natural Language Processing
- Alternative Machine Learning Evaluation Methods
- Healthcare-related Datasets and Analyses

### **Contribution Types**

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Presentations: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Demos: two pages [posted on [www.iaia.org](http://www.iaia.org)]

### **Important Datelines**

- Inform the Chairs: As soon as you decide to contribute
- Submission: March 11, 2022
- Notification: March 27, 2022
- Registration: April 6, 2022
- Camera ready: April 6, 2022

*Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.*

### **Paper Format**

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

### **Publications**

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

### **Paper Submission**

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=PATTERNS+2022+Special>  
Please select Track Preference as **AI-DRSWA**

### **Registration**

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

### **Contact**

Joschka Kersting: [joschka.kersting@upb.de](mailto:joschka.kersting@upb.de)  
Logistics: [steve@iaia.org](mailto:steve@iaia.org)