## SEA4DQ Workshop 2024 July 15, 2024, Porto de Galinhas, Brazil

# SEA4DQ 2024

Modern software systems are centered on data, using it on an increasing scale and in novel and intelligent ways. The data acquired and used by modern software systems strongly impacts reliability, robustness, efficiency, and trustworthiness of these systems. These processes rise the question:

How can software engineering and artificial intelligence (AI) help manage and tame data quality issues?

The SEA4DQ 2024 workshop provides a venue for researchers and practitioners to exchange and discuss trending ideas, work in progress, and scientific results.

## **TOPICS OF INTEREST**

- Requirements engineering for data quality
- Software architectures and frameworks for data quality management
- · Software and AI solutions for data ingestion, collection, and acquisition for the sake of data quality
- Software and AI solutions for Data pre-processing, filtering, labelling, cleaning for the sake of data quality
- Software tools for data quality management, testing, and profiling
- Quantification of data quality
- · Case studies evaluating existing data quality technique on real systems
- Trade-off between data quality, performance, and accuracy

## **ORGANIZATION COMMITTEE**

#### **General Chairs**

Tim Menzies, North Carolina State University, USA Bowen Xu, North Carolina State University, USA

#### **Program Chairs**

Jie M. Zhang, King's College London, UK

#### Industrial Chairs

Jiri Gesi, Amazon Science, USA Sagar Sen, SINTEF, Norway Beatriz Cassoli, TU Darmstadt, Germany

#### Web Chairs

Nicolas Jourdan, TU Darmstadt, Germany Jieke Shi, Singapore Management University, Singapore

#### **Publicity Chairs**

Phu Nguyen, SINTEF, Norway Valentina Golendukhina, University of Innsbruck, Austria

## **IMPORTANT DATES**

## Paper Submission: March 15, 2024

- Notification of Acceptance: April 26, 2024
- Camera-Ready Submission: May 17, 2024
- Workshop Day: July 15, 2024

## Find more at https://sea4dg.github.io.

The 4<sup>th</sup> International Workshop on Software Engineering and AI for Data Quality in Cyber-Physical Systems/Internet of Things at the ACM International Conference on the Foundations of Software Engineering (FSE)

## **TYPES OF SUBMISSIONS**

Research Track (max. 10 pages): Papers describing original research, including novel approaches, tools, datasets, and studies related to the workshop topics.

Ideas, Visions and Reflections Track (max 4 pages): Papers that aim to disrupt the status quo in our discipline with radical, Hong Jin Kang, University of California, Los Angeles, USA innovative, thought-provoking new ideas, and research directions, as well as lessons learned from the past.

> Industry Track (max 4 pages): Papers that discuss industry challenges and lessons learned from practice.

#### SUBMISSION

The accepted papers will be published in the workshop's proceedings (will be proposed for publication in the ACM digital library). At least one author of each accepted paper must register and present the paper in person at SEA4DQ 2024 to have the paper appear in the FSE companion proceedings.

#### SPECIAL ISSUE

All papers accepted at SEA4DQ 2024 will be invited to be revised and extended for consideration in a special issue of the Springer Empirical Software Engineering Journal (EMSE).

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