Tian Li

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Education

Tongji University, Shanghai, China *Sept 2013 – May 2018*
Automotive Engineering (Automotive Electronics) B.Sc.

RWTH Aachen University, Aachen, Germany *Oct 2018 – May 2022*
Computer Science M.Sc.

RWTH Aachen University, Aachen, Germany *Oct 2023 – Present*
Computer Science Ph.D. candidate

Research Fields

Information systems, Business process management, Stochastic process mining, Stochastic conformance checking

Experience

Working Student *Jun 2021 – Jun 2022*
Institute for Automation of Complex Power Systems, RWTH Aachen University

- Construct semantic model for building energy system
- Process data in Python and deploy code to server

Research Assistant *Jun 2022 – Mar 2023*
Chair of Process and Data Science, RWTH Aachen University

- Implement a novel alignments computation algorithms
- Develop a platform with ProM for compliance checking

Research Assistant *Sept 2023 – Present*
The BPM Group, RWTH Aachen University

- Develop and maintain a stochastic process mining software suite
- Involved in the organization and teaching for courses Fundamentals of Business Process Management, Reliability in Process Mining, and Advanced Topics in Stochastic Process Mining

Publications

Cache Enhanced Split-Point-Based Alignment Calculation *Oct 2022*
Tian Li, Sebastiaan J. van Zelst

Checking Constraints for Object-Centric Process Executions *Oct 2023*
Tian Li, Gyunam Park, Wil van der Aalst

Stochastic Process Discovery: Can it be Done Optimally? *Jun 2024*
Sander J.J. Leemans, Tian Li, Marco Montali, Artem Polyvyanyy

The Jensen-Shannon Distance for Stochastic Conformance Checking *Oct 2024*
Tian Li, Sander J.J. Leemans, Artem Polyvyanyy

Stochastic Alignments: Matching an Observed Trace to Stochastic Process Models *In press*
Tian Li, Artem Polyvyanyy, Sander J.J. Leemans

Applying Statistical Distances for Stochastic Conformance Checking *Under review*
Tian Li, Sander J.J. Leemans, Artem Polyvyanyy

Discovering Stochastic Causal Nets *Under review*
Tian Li, Sander J.J. Leemans, Artem Polyvyanyy