Third Workshop on Collaboration Mining for Distributed Systems CoMinDS 2024
October 14th, 2024 Technical University of Denmark, Lyngby, Denmark
https://pros.unicam.it/cominds
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Important Dates
Abstract Submission: August 8, 2024
Papers Submission: August 15, 2024
Paper Acceptance Notification: September 2, 2024
Workshops: October 14, 2024
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Theme
The Third Workshop on Collaboration Mining for Distributed Systems (CoMinDS 2024)
aims to facilitate the sharing of research findings, ideas, and experiences on new process
mining techniques and practices for analyzing collaboration processes. Process mining is a
powerful tool for the analysis of business processes carried out by one participant. However,
it lacks approaches able to deal with the analysis of collaboration processes implemented by
many participants in a distributed system, e.g., supply chains involving manufacturers,
producers, and retailers; healthcare scenarios involving patients, hospitals, and doctors; or
even smart systems like multi-robots and IoT systems.
In this setting, confidentiality, privacy, data heterogeneity, and case correlation are only a few
of the issues related to data preprocessing. Likewise, there is a lack of discovery algorithms,
conformance techniques, and enhancement approaches. Thus, there is a need for
approaches to support process mining to fill this gap. In this direction, the workshop points to
creating a dialogue centered on the development of scientific foundations enabling the
application of process mining in such distributed scenarios. The main topics relevant to the
CoMinDS workshop include, but are not limited to:

• Generation of Synthetic Distributed Event Logs
• Distributed Event Logs Preprocessing
• Correlation Mechanisms for Distributed Event Logs
• Discovery of Collaboration Process Models
• Conformance Metrics and Techniques for Collaboration Process Models
• Multi-perspective Analysis of Collaboration Processes
• Enterprise Collaboration Systems
• Privacy-preserving Process Mining for Distributed Systems
• Distributed Systems Monitoring and Repair
• Federated Process Mining
• Streaming Collaboration Mining

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Submissions
The workshop welcomes submissions of regular full papers, abstracts, and posters.
Regular papers must provide original research contributions significant for the workshop
theme and have not been published previously. Submissions must use the Springer
LNCS/LNBIP format. Submissions must be in English and must not exceed 12 pages.

Accepted papers will be published by Springer as a post-workshop proceedings volume in the series Lecture Notes in Business Information Processing (LNBIP). At least one author of each accepted paper must register and participate in the workshop.

Abstracts and posters could be ongoing research or non-research contributions such as case studies, experiences, lessons learned from projects, industry showcases, and software tool demonstrations significant for the workshop theme. Abstracts and poster presentations will take place in an interactive and participation-encouraging format based on the number and nature of the accepted contributions. Authors must submit max 2 pages for abstracts using the Springer LNCS/LNBIP format, or 1 page A0 for posters. Abstracts and posters will be uploaded to the workshop website. At least one author of each accepted abstract and poster must register and participate in the workshop.

Organizers:
- Lorenzo Rossi, University of Camerino, Italy
- Mahsa Pourbafrani, RWTH Aachen University, Germany
- Laura González, Universidad de la República, Uruguay
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