Preface

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We are delighted to present the proceedings of the First International Workshop on Explainable Knowledge Aware Process Intelligence (EKAPI 2024), which took place in Roccella Jonica, Italy, in June 20–22nd, 2024.

In recent years, the landscape of Process Intelligence research has undergone remarkable transformations due to the rapid digitalization of organizations. There has been a surge in interest, particularly in automating knowledge extraction from event data to optimize process execution. Central to this endeavor are process mining and AI techniques, which play pivotal roles in transforming event data into valuable insights for companies. However, despite the effectiveness of available techniques, persistent challenges such as the lack of documentation, traceability, and the use of opaque black-box components remain.

The PRIN project PINPOINT, funded by the Italian Ministry of Research (MUR) - CUP H23C22000280006, has been instrumental in driving research attempting to solve these challenges forward. PINPOINT focuses on developing comprehensive techniques for explainable, knowledge-aware process intelligence. Specifically, it emphasizes empowering process mining techniques with background knowledge from multiple perspectives and making process mining pipelines explicit, transparent, and explainable. This project capitalizes on the integrated expertise of AI, business process management, data management, and process mining to achieve its objectives.

The objective of EKAPI 2024 is to bring together researchers from diverse fields to offer insights and contributions, building on the advancements of, and feeding novel ideas for the future progress of, the PINPOINT project. The workshop received 8 submissions. After careful peer-review, one of these was accepted as a long paper, and 6 were accepted as short papers, for a total of 7 papers appearing in these proceedings.

We would like to extend our sincerest gratitude to the entire program committee for their invaluable contributions in shaping the workshop and selecting the high-quality papers included in these proceedings. We hope that the discussions and findings presented in this volume will inspire further advancements in knowledge-aware process intelligence.

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