

Preface of the Process Management in the AI Era

in conjunction with IJCAI-ECAI 2022

The first workshop on Process Management in the AI era (PMAI in short) was included as a workshop at the IJCAI-ECAI 2022 conference, that is the premier international gathering of researchers in AI, where the International Joint Conference on AI (IJCAI) was jointly organized with the European Conference on AI (ECAI), which celebrates its 25th edition and its 40-year anniversary. PMAI aims at bringing together researchers from different research disciplines and a strong interest in promoting the synergy between AI and Process Management (PM) to address frontier challenges in the domain of PM. This event was held as a one-day workshop, including an invited talk. The topics in PMAI 2022 covered theoretical foundations, technology development, and real-world applications associated with process management and AI, including explainable and trustworthy AI for process management and process mining, conversational systems, natural language processing, human-machine interaction for process management, KR for process management, reasoning about actions and processes, planning, and synthesis, AI techniques for process discovery, conformance checking, prescriptive and predictive monitoring, declarative-based multi-perspective representation of process traces, uncertainty in AI for process management, multiagent systems, strategic reasoning, game theory, and mechanism design for multi-party processes. The programme of PMAI 2022 was composed of one invited talk given by Prof. Chiara Ghedini, and 5 presentation sessions that included 6 full and 10 poster papers, accepted after undergoing a peer-reviewed process. We would like to thank Prof. Chiara Ghedini for her inspiring talk and all the contributing speakers for making PMAI 2022 a great event and a platform for knowledge sharing with the PM community, and for having lively discussions about significant and contemporary advances in the domain, featuring an exciting program that demonstrates novel work that arises from blending between the AI and PM disciplines. We hope there will be subsequent events of this sort in the future.


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Giuseppe de Giacomo
Antonella Guzzo
Marco Montali
Lior Limonad
Fabiana Fournier
Tathagata Chakraborti

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