

PeRConAI 2022: First Workshop on Pervasive and Resource-Constrained Artificial Intelligence - Welcome and Committees

Welcome Message

The PeRConAI workshop aims at promoting the circulation of new ideas and research directions on pervasive and resource-constrained artificial intelligence. PeRConAI will serve as a forum for practitioners and researchers working on the intersection between pervasive computing and machine learning, including deep learning and artificial intelligence. The workshop welcomes theoretical and applied research sharing the common objective of investigating solutions advancing towards a truly pervasive and liquid AI. In the long term, we envision a future where every device at the edge of the Internet, regardless of its computing capabilities, will have an active role in the AI process by processing its data and collaborating with other devices to extract knowledge from them.

The workshops' international programme committee refereed the submitted full papers by their quality and relevance to the workshop theme. In total, the workshop program includes 7 papers that were carefully selected out of 14 submissions, including one redirected contribution from the main conference.

The workshop includes two sessions covering the two main aspects of AI in pervasive computing: the papers in the first session address problems related to on-device learning, targeting, in some cases, smart-vision related problems. The following session covers aspects of distributed and federated learning in pervasive contexts. Between the two sessions, a keynote speech will take place.

We would like to thank the program committee members for providing detailed and thoughtful reviews and thus making it possible to assemble an interesting program of high-quality papers. We would also like to thank the PerCom organizers and, in particular, Antinisca Di Marco and Frank Dürri, the PerCom workshop co-chairs, for supporting the workshop and assisting with its organization. Finally, we thank all authors and workshop attendees for their contributions and participation.

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