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Decentralized Reasoning in Ambient Intelligence

 Springer

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**Decentralized Reasoning in Ambient Intelligence
(SpringerBriefs in Computer Science)**



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In Ambient Intelligence (AmI) systems, reasoning is fundamental for triggering actions or adaptations according to particular situations that may be meaningful and highly relevant to some applications. where two entities cooperate to execute decentralized rule-structured reasoning – For this purpose, the authors define a context model assuming context data distributed over two sides: an individual part, represented by the users and their mobile devices, and the ambient part, represented by the set computational infrastructure and ambient services. Decentralized Reasoning in Ambient Intelligence proposes a decentralized reasoning strategy for performing rule-structured reasoning about context data targeting AmI systems. They formalize the cooperative reasoning procedure – Nevertheless, such reasoning operations might need to evaluate context data collected from distributed sources and stored in different devices, as not often all context data is definitely readily available to the reasoners within the machine. and define a total process to perform this operation.



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