Decentralized data mining: scalability, adaptivity, privacy protection

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Topic Description: Decentralized systems such as collaborative networks of mobile phones or in general Internet of Things (IoT) systems typically host data centric applications. Processing the collected data in place (as opposed to a data center) has many advantages. First of all, the different sources of data can freely be combined solving the isolated data silo problem. Also, in-place processing offers a reasonable approach to enable users to stay in full control of their data. The task is to design and implement algorithms and middleware abstractions that are scalable, robust, and work in realistic environments.

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