

SFB/TR 8 Spatial Cognition / IQN Video Conference

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Towards decentralized spatial computing

Conventional spatial computing procedures are based on centralized models of information processing, where sophisticated and powerful central systems collate and process global information. By contrast, emerging distributed sensing and computing systems, such as geosensor networks, require techniques for in-network data processing. This talk introduces the notion of decentralized spatial computing (DSC), where individual sensor-enabled computing nodes possess only local knowledge about their immediate neighborhood, but successfully address global tasks through local collaboration and information exchange. The concept of decentralization is illustrated for the task of movement pattern detection.

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