

Aggregate Computing

Top down global-to-local approach to program self-organising behaviour

Hybrid Aggregate Computing

Combination of declarative programming approach with sub-symbolic AI

Engineering Methodologies

Enhance the state-of-the-art in aggregate computing to effectively address the complexities in CPSw

Research Roadmap

Collective Program Sketching

Learning distributed schedulers

Field-informed Reinforcement Learning

ScaRLib

MacroSwarm

Sensing-Driven Clustering

Dynamic Decentralization Domain

Functional Reactive self-org programming - FRASP

Swarm API

Multi-tier Pulverised Architecture