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Maximizing Lifetime of a Wireless Sensor Network via Joint  
Optimizing Sink Placement and Sensor-to-Sink Routing

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**Highlitgts**

- Model jointly optimal sink placement and sensor-to-sink routing as a mixed integer optimization problem
- Propose a discrete particle swarm optimization for sensor-to-sink routing
- Develop a novel diffusion particle swarm optimization for sinks placement
- Show superiority of our method over existing results through experimental comparisons.

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