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## Algorithms of wireless ad hoc sensors in robotics

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Algorithms of network sensors lifetime and target zones coverage, which are implemented on robotic wireless ad hoc nodes and wireless sensor network (WSN) are simulated on MATLAB platform, with performance evaluations of several case studies. The main goal is to maximize the lifetimes of sensors by sharing sensors subsets which cover a number of targeted zones, according to their minimum coverage failure probabilities. Maximizing network lifetime due to perturbations in the sensor-target coverage, as well as due to variable target load demands is also simulated according to proposed algorithms.

### Biography

Amir J Majid has received his MSc degree in Electrical Systems Engineering from Surrey University, England in 1976 and PhD in Electrical Engineering from University of Loughborough, England in 1980. He has acquired an industrial experience of 8 years in power stations and an academic experience of over 25 years.

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