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"Wireless data broadcast is a promising technique for information dissemination that leverages the computational capabilities of the mobile devices in order to enhance the scalability of the system. Under this environment, the data are continuously broadcast by the server, interleaved with some indexing information for query processing," scientists in Singapore, Singapore report.

"Clients may then tune in the broadcast channel and process their queries locally without contacting the server. Previous work on spatial query processing for wireless broadcast systems has only considered snapshot queries over static data," wrote K. Mouratidis and colleagues, Singapore Management University.

The researchers concluded: "In this paper, we propose an air indexing framework that 1) outperforms the existing (i.e., snapshot) techniques in terms of energy consumption while achieving low access latency and 2) constitutes the first method supporting efficient processing of continuous spatial queries over moving objects.."

Mouratidis and colleagues published their study in IEEE Transactions on Mobile Computing (Continuous Monitoring of Spatial Queries in Wireless Broadcast Environments. IEEE Transactions on Mobile Computing, 2009;8(10):1297-1311).

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