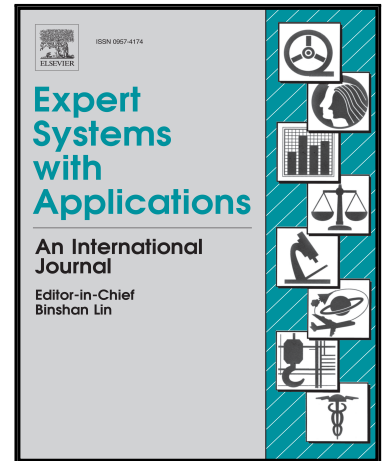


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An efficient genetic algorithm for large-scale planning of dense and robust industrial wireless networks

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Highlights

- An over-dimensioning model for planning robust industrial wireless local area networks considering 3D obstacle shadowing effects
- An efficient genetic algorithm (GA) is proposed to solve this model even at a hyper-large scale
- A greedy heuristic and a random placement algorithm are introduced as benchmarks
- This model and GA are both experimentally validated and numerically demonstrated

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