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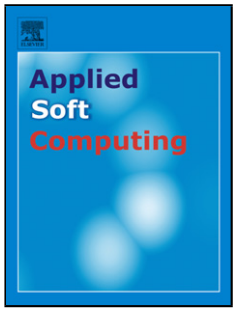

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ACCEPTED MANUSCRIPT

Hybrid optimizers to solve a tri-level programming model for a tire closed-loop supply chain network design problem

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Graphical abstract

The scraped tires may be left in nature to pollute the environment (this photo is taken from our case study)

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