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Solving the Wire-Harness Design Problem at a European Car Manufacturer

Marie-Sklaerder Vié, Nicolas Zufferey, Jean-François Cordeau

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Highlights

- A wire-harness design problem faced by a car manufacturer is formulated
- Using component commonality can help reduce the costs significantly
- The size of the real instances makes exact methods unsuited
- Two greedy heuristics, a descent method and a variable neighborhood search are proposed
- Results show that important cost savings can be achieved with these methods

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