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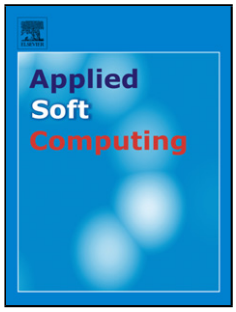

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Screening alternatives considering different evaluation index sets: A method based on soft set theory

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HIGHLIGHTS

- A new screening alternative problem considering different evaluation index sets is formulated.
- The soft sets for screening alternative problem are constructed.
- Three rules of screening alternatives and corresponding screening processes are presented.
- A screening alternative method based on soft set theory is proposed.
- A numerical example is used to illustrate feasibility and validity of the proposed method.

Abstract

This paper investigates a new screening alternative problem in which evaluation index sets and index requirements provided by multiple departments are different. To solve the problem,

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