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Water pollution in wastewater treatment plants: an efficiency analysis with undesirable output

Giovanna D'Inverno, Laura Carosi, Giulia Romano, Andrea Guerrini

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Highlights

- The environmental efficiency of 96 Tuscan wastewater treatment plants is investigated
- New integrated Analytic Hierarchy Process/directional distance function model
- The nitrogen in the outgoing water is considered as undesirable output
- Efficiency determinants are identified among wastewater treatment plant features

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