

## Special Issue

# Transforming End-of-Life Product Management: Leveraging Big Data, Deep Learning, and Sustainable Practices

### Message from the Guest Editors

The Special Issue seeks research on how the technologies can improve the sustainability and efficiency of EoL management. It invites submissions that combine theoretical insights with practical applications to revolutionize traditional EoL processes, supporting the circular economy. Research areas may include (but are not limited to) the following:

- Applications of big data for optimizing recycling processes;
- Predictive modeling for EoL product flows and waste management;
- Data-driven decision-making in EoL product lifecycle assessment;
- Enhancing recycling accuracy through machine learning techniques;
- Circular economy models in product design and lifecycle management;
- Synergies between big data, AI, and sustainable practices in EoL management;
- Case studies on successful technology integration in EoL processes;
- Challenges and opportunities in adopting digital technologies for EoL management;
- Economic analysis of technology-driven EoL management strategies;
- Incentives for adopting advanced technologies in waste management

### Guest Editors

Dr. Selman Karagöz

Dr. Yasin Karagöz

Dr. Charli Sitinjak

### Deadline for manuscript submissions

5 September 2025



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### Editor-in-Chief

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