

Sustainable Inventory Management (includes perishables)

Session organizers: Rene Haijema and Sandra Transchel

Sustainable operations management and thus also sustainable inventory management is of increasing concern in many industries. The section *Sustainable Inventory Management* welcomes contributions that study sustainability aspects in inventory management and control. Although sustainability aspects are related to people, planet, or profit, the focus of this section is primarily on environmental sustainability.

Contributions can range from modelling studies to preventing and re-using product waste to modelling approaches to evaluate/optimize SC sustainability and inventory management in circular economies. Modelling approaches should be quantitative by nature: either using mathematical models (optimization and simulation), machine learning models, etc. Empirical studies are welcome if these are linked to modelling: they should provide evidence for modelling assumption or highlight future research on where modelling is needed to support inventory management decisions.

In particular, this section welcomes contributions related to inventories of perishable goods in a broad sense. Products one may think of range from fresh agricultural/food products and pharmaceuticals (e.g. blood products, vaccinations, and medicines) to fashion wear and electronic equipment that depreciate in value over time and become outdated. Next to perishable products, this session welcomes contributions to ameliorating items that benefit from ageing, such as cheese, wine, etc.

The topic includes but is not limited to:

- Inventory and supply chain models tailored to perishable products, i.e. containing features such as quality decay, perishability, age/quality-dependent demand
- Age/quality-based pricing models
- Empirical studies on (food) waste in supply chains
- Game-theoretic and behavioural models in perishable-product supply chains
- Technologies to monitor product quality in supply chains and thus affect inventory control
- Reduce, re-use, or recycle waste of perishable products
- Inventory management in circular economies

Submission

If you are interested in contributing by a presentation to these sessions, then

1. please let us know by sending an email to the organizers (see below). If you are unsure whether your topic fits, please check with us before submitting a paper.
2. submit your abstract via the website for the ISIR conference: <http://www.isirsymposium>. When you submit, you can denote that you want to join the sessions on Sustainable Inventory Management

Abstract submission deadline: 31 March 2022

Organizers

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