

**Special Stream on
“OR ADVANCES IN AGRIBUSINESS”**

Scope. Risk and Uncertainty in Agriculture are currently generating major challenges to run effective agriculture production systems (APS). Uncertainties such as weather, pests, diseases, volatile market conditions and commodity prices make APS more difficult and expensive to be managed. Thus, managing risk and uncertainty has turned an important subject for agriculture stakeholders, who normally are forced to over use, produce and stock resources to mitigate, transfer, and cope with risk. Hence, collaborative OR developments of Information communication technologies (ICTs) have proven to be highly cost effective instruments for collecting, storing, processing, and disseminating information about risk. Successful efforts are, most of the times, regarded to cooperation amongst technology providers, agricultural experts, financial intermediaries, state governments and institutions, donors, nongovernmental organizations, mobile operators, and others in the private sector, that from a variety of perspectives can contribute to mitigate risk and uncertainty in agriculture, which is still a major challenge.

Therefore, and aligned with the activities of the H2020 RUC-APS project (www.ruc-aps.eu), this special stream will have the objective of exploring and gathering the state-of-the-art on conceptual and applied interoperable solutions to support Agriculture decision-making once facing uncertainty and risk. This will include the use of OR with application to ICT, simulations, data analysis, precision farming and innovation approaches in agriculture that will help agriculture stakeholders improving their performance and supporting multidisciplinary and collaborative solutions in Agriculture production systems consider the current socio-economic trends and challenges in Agriculture.

Stream chairs

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Stream Name: OR advances in Agribusiness

Topics to be considered for this Stream are (but not limited to):

- Review and State-of-the-art of OR advances in Agri-Food Systems.
- Risk and Uncertainty conceptualisation models to support collaborative Agriculture Production Systems.
- Collaborative technologies to enhance Agri-Food Productions Systems.
- Supply Chain Modelling and Optimisation.
- Application of SMART ICT solutions to optimise decision-making in Agribusiness.
- Data analytics for supporting Agribusiness interoperability.
- Decision-making under uncertainty.
- Risk and Uncertainty in Agri-Food Systems.
- ICT development life-cycle for Agriculture decision-making.
- Dynamic planning and optimization models to support collaborative OR development in Agribusiness.
- OR models considering climate change impact analysis on Agribusiness networks.
- OR Models for sustainable Agribusiness under uncertainty.
- Case studies of multidisciplinary implementations and solutions.

Submission procedure:

- Submission: An Abstract of max 1500 characters to be submitted to:
<https://www.euro-online.org/conf/euro29/>
- **Use the stream submission code: 4afae0e9**, to upload your abstract in the **OR Advance in Agribusiness session**

Relevant Dates:

- Abstract submission open: Friday, October 13, 2017
- **Abstract submission deadline: Monday, March 5, 2018**
- Registration open: Friday, December 1, 2017
- **Early registration deadline: Friday, April 6, 2018**
- Author registration deadline: Friday, April 20, 2018

IMPORTANT: Selected abstracts, presented at EURO2018, will be invited to submit an extended version to be considered for publication in **ISI Journal Special Issues** or as a chapter in a **Special Springer Book edition**. You will be also invited to be part of the international RUC-APS community as external member