



# PRO-VE'18 – 19th IFIP Working Conference on Virtual Enterprises

Cardiff, UK, 17-19 September 2018

## Special Session on Cognitive Systems in Food and Agribusiness Value Chains

### Scope

Collaboration is needed in every sector, food and agribusiness is not an exception. Food and Agribusiness supply chains play a key role in the society and global economy. With strong drivers like population increase, customer's preferences, health, fair share of benefits, sustainability and big challenges as ensuring food and nutrition security, climate changes, technological innovation, providing jobs and control the impact on the environment.

Food and agribusiness supply chains are pioneers in the use of massive data, sometimes due to rigorous legislation that force to trace lots of variables (temperature, humidity, time, ...) along the supply chain. Food and Agribusiness sector are also evolving, introducing a lot of sensors from cradle to grave flows of products. These data are allowing to improve farm productivity but also to coordinate better the flows among different actors in a sector when time is a must to get high quality and value. All the data provide by sensors and smart devices are a great source to be used by different types of cognitive systems. New areas like self-optimization in planting, harvesting and processing in agribusiness can lead to a better use of resources and to align demand with production reducing waste.

This session is focused on papers addressing research and applications in the food value chain and in agribusiness. The objective is to present interesting research and practical developments to address the challenges in the sector and to present innovative approaches and new business models for the new scenarios on the coming years.

This session also addresses several aspects covered by H2020 RUC-APS project ([www.ruc-aps.eu](http://www.ruc-aps.eu)) a H2020 Rise project devoted to "Enhancing and implementing Knowledge based ICT solutions within high Risk and Uncertain Conditions for Agriculture Production Systems".

### Session Organizers

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### Topics/ Keywords

- Cognitive systems applied to agribusiness networks
- Modelling the food value chain
- CPS and IoT in food and agribusiness supply chains
- Collaborative planning in food supply chains
- Risk Management in food supply chains
- Big data in food supply chains
- Economic models for agribusiness
- Value models for agribusiness
- Partnership models in food supply chains
- Technologies to foster collaboration in food supply chain
- Application of strategic planning for implementing ICT value chain solution in agri-food
- Sustainable challenges in agribusiness
- Application or case studies of collaboration in food supply chain and agribusiness
- Drivers in agribusiness
- New business models for the food sector
- Measuring value in agribusiness
- Proactive Decision Support Systems (DSS) for food and agribusiness supply chains

### Submission procedure

Papers accepted for this session are included in the main conference and follow the same reviewing process.

Important dates:

- Abstracts: 11 Mar 2018
- Full paper: 01 Apr 2018
- Acceptance notification: 18 May 2018
- Camera ready: 28 May 2018

Acceptance of papers is based on the full paper (up to 8 pages). Each paper will be evaluated by three members of the International Program Committee. However, prospective authors should submit a short abstract in advance, in order to check if the proposed topic fits within the conference scope.

When submitting on the web site, you have to indicate the name of the special session.

Submission on: [www.pro-ve.org](http://www.pro-ve.org), with copy by email to the chairs of the special session.