



AI for Digitising Industry Webinar from AI4DI: AI for Smart Food and Beverage Production

INVITATION



AI for Smart Food and Beverage Production

11th of May 2021, 09:00-11:30 CET - Online



Food processing is one of the critical revenues generating sector for a majority of the developed and developing economies, and the implementation of IoT/IIoT and robotics solutions in the industrial sector has supported overcome critical issues related to production and execution by eliminating the possible chance of human errors while reducing the redundancy in work being performed by manual labour. AI can fuel innovation in production and packaging to reach consumer expectations regarding its quality and its associated impact on the cost. To attain the potential trade-off between the quality and price, industry stakeholders actively leverage the potential of AI across the various applications, such as product design, quality control, maintenance, and consumer engagement, among others.

The integration of AI technology has revolutionized the efficiency improvements in the food and beverage industry, with significant reductions in downtime, repair costs, and additional labour requirements and cost. Firms in the food and beverages production and manufacturing industry leverage AI's benefits by using neural networks, machine learning techniques, advanced analytical tools, like speech and text analysis linked with image and voice recognition technologies for optimizing time and enhancing the overall customer experience.

Food quality and safety can be more accurately monitored using IoT/IIoT devices, supported by arrays of sensors, wireless devices, and edge technology, while AI-based food safety solutions help identify food hazards in food products. Using AI's advantage to monitor possible issues through each supply chain level, food manufacturing will become safer, healthier, and more efficient.

AI and IoT/IIoT interpret data received from sensors and recognize when action is needed. Sensors generate the data that is aggregated, sorted and significant data points are identified by using AI techniques. These technologies are used to spot anomalies, such as early warning signs that an asset may fail or require maintenance at food and beverage manufacturing facilities.

Predictive quality analytics using AI is helping food and beverage stakeholders attain control over their costly machinery. The IoT/IIoT intelligent nodes' digital twin is a continuously learning system of digital copies of nodes that can be queried automatically or even by voice for specific outcomes. The digital twin can predict asset behaviour and capacity to deliver results within given parameters and cost constraints. The equipment is continuous functioning, and the digital twins provide information about the physical processes to achieve the targeted outcome.

The AI4DI Webinar no3: AI for Smart Food and Beverage Production is designed to present the AI techniques and methods applied to different applications in the food and beverage industry developed by AI4DI project partners. The webinar includes presentations from other national and European projects.



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PROGRAMME

Virtual Coffee in the Lobby ONLINE EVENT

09:00 - 09:05

AI for Digitizing Industry Webinar Opening

Welcome and introduction, Cristina De Luca, Infineon, Germany

09:05 - 09:55

Food and Beverage Industry Challenges

- *IoT technologies for intelligent and sustainable solutions in Agri-food sector - Future Outlook.* Mario Diaz-Nava, STMicroelectronics France
- *ArtIFARM – Artificial intelligence in farming.* Prof. Mark Vehse, Germany
- *IoT and AI for a more accurate and sustainable viticulture.* Olivier Sommier, ERTUS Group, France

09:55 - 10:00

Coffee break – 5 mins

10:00 - 11:20

AI Applications in Food and Beverage

- *An integrated precision control system for modern Champagne production.* Rachel Ouvinha de Oliveira VRANKEN-POMMERY, France
- *Quality control system for Champagne production.* Angelo Steffemel, University of Reims, France
- *Smart intelligent IoT systems for Champagne vineyard monitoring.* Marcello Coppola, STMicroelectronics, France
- *AI and IIoT system for soya beans production process optimisation and equipment predictive maintenance.* Ovidiu Vermesan, SINTEF, Jøran Edell Martinsen Denofa, Norway

11:20 - 11:30

Closing remarks

The webinar is organised by [ECSEL AI4DI](#) project in cooperation with [ECSEL Industry4.E Lighthouse](#) initiative.

PRACTICAL INFO



Please register in advance for the AI4DI Webinar for the 11th of May 2021 9:00 -11:30 AM CET at:

<https://attendee.gotowebinar.com/register/7052060186547138571>

After registering, you will receive a confirmation email containing information about joining the webinar.

We are looking forward to MEETING you ONLINE!



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