Research Collaboration with DIT

Analytics based solutions that can deliver data driven insights to farmers, food processors and suppliers

The DIT Agriculture Analytics Research Group (AARG) was formed in 2014 to meet the growing demand for smart analytics driven solutions in the agriculture and food production sectors in Ireland.

The AARG’s mission is to provide analytics research and innovation support to the agriculture and food sectors in Ireland through mechanisms such as Innovation Partnerships, Enterprise Ireland, European Funding Proposals, and Contract Research & Development.

Working with DIT Hothouse, the AARG team provides research and innovation support to all sectors in Ireland.

Supports provided include the development of analytics based solutions that can deliver data driven insights to farmers, food processors and suppliers alike. By leveraging state-of-the-art techniques in remote sensing, machine learning, data visualisation and natural language processing, the group develops intuitive innovative solutions that offer businesses a competitive advantage.

The DIT Agri-Analytics team comprises experts in Data Analytics, Remote Sensing, and Business Development who share a joint passion for developing state-of-the-art innovative technologies for the agriculture sector both at home and for the export market.

The team’s Analytics researchers include Principal Investigators involved in CeADAR, the National Centre for Data Analytics, while in Business Development the team draws from over 20 years of solid industrial experience in the food processing and agriculture sectors.
Current DIT Agri-Analytics Research Projects

- **Process Monitoring for Poultry Production** – Lead by Dr. Robert Ross, this project is concerned with the development of advanced analytics interfaces for environment and flock monitoring in the poultry sector. The technology developed through the project will be of interest to livestock farmers seeking to improve environmental conditions and standards of wellbeing for their livestock, and hence maximising their profits.

- **Vision-based Early-Onset Lesion Detection** – Lead by Dr. Alex Ter-Sarkisov, this project involves the development of vision based solutions for lesion detection in cattle through advanced analytics methods including deep neural networks.

- **Grassland Monitoring with Low-Cost Personal Vision Systems** – Lead by Patricia O’Byrne, this project is investigating the use of low-cost vision systems for regular grassland monitoring for seeding and quality issues.

Research & Innovation Facilities

The DIT Agriculture Analytics Research Group is hosted in the DIT School Of Computing’s Applied Intelligence Research Centre (AIRC). The AIRC provides infrastructure for advanced prototype creation and testing for a range of hardware platforms. The AIRC offers the Agriculture Analytics Research Group expertise in visualisation, software engineering, and analytics solutions.

AIRC staff work on a regular basis with start-ups, SMEs and multinationals on a range of business solutions. Recent project partners have included: Dell, eBay, Allied Irish Banks, Bank of Ireland, Nathean Technologies, and Creme Global to name just a few.

DIT Hothouse provides the group with a wealth of expertise in Business Development, Commercial Licensing, and IP Management.

R&D Collaboration Opportunities

The AARG in DIT is always interested in meeting companies in the agriculture or food sectors interested in developing their innovative capabilities through data analytics and related technologies.

The team is available to meet on-site with industry partners or host meetings in their research facilities at the DIT Focas Research Institute, Camden Row, Dublin 8.

“DIT’s Agri-Analytics team brings together experts in Data Analytics, Remote Sensing, and Business Development who share a joint passion for developing state-of-the-art innovative technologies for the agriculture sector”

Further Information

Find out more about DIT’s Agriculture Analytics Research Group (AARG) online at www.agrianalytics.org

Alternatively, you can contact the group leaders directly:

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