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Will Artificial Intelligence Revolutionise Agriculture?

This pressing question will take centre stage at the Institution of Agricultural Engineers (IAgrE) Annual Conference, held online on Wednesday, 22 October 2025.

As UK agriculture faces mounting challenges—climate change, water scarcity, and the urgent need to boost productivity—Artificial Intelligence (AI) is emerging as a transformative force. Crucially, it aligns with two of the UK Government’s key growth priorities: AgriTech and AI. The question now is how government and industry can work together to harness these technologies to help farmers make smarter decisions, reduce waste, and drive sustainable growth across the sector.

Mark Moore, IAgrE President, explains:

“The goal of this year’s conference is to equip the agricultural engineering community with a clear understanding of what AI represents for agriculture. As we look ahead, the key question is: how will AI shape our pursuit of sustainable food systems? This event will explore the current landscape and emerging opportunities for AI in farming.”

Conference Highlights Include:

- Fernando Auat Cheein, Professor of Engineering at Harper Adams University and Director of the Harper Institute of Technology, will assess the technology readiness levels of AI and robotics in farming, using case studies to explore adoption trends and barriers.
- Jonathan Henry, Managing Director at Garford Robocrop, will demonstrate how the Robocrop system uses AI to combine colour, infrared, and depth data for precise crop and stem identification.
- Allan Kildeby, Head of Camera Sensors at CLAAS, will share how AI and computer vision are driving innovation in agricultural engineering.
- Morten Bilde, Managing Director of AGCO Innovation Center in Randers, Denmark, will discuss how AGCO is integrating AI to enhance user experience and operational efficiency.

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- Kieran Fitzgerald, Vice President of Digital Services at DeLaval, will explore how emerging technologies are helping the dairy industry improve productivity and sustainability.
- Simon Pearson, Professor of Agri-Food Technology at the University of Lincoln, will look ahead to the next two decades, highlighting the rapid adoption of AI-enabled technologies—from precision weeding and crop grading to semi-autonomous machinery.

The conference will conclude with a live panel Q&A session chaired by Olivia Midgley, Editorial Director of Farmers Guardian, bringing her 18+ years of publishing experience to guide the discussion.

Why Attend?

Integrating AI into agriculture could revolutionise food production and distribution—making it more efficient, sustainable, and profitable. However, adoption remains a significant challenge for many farmers. This conference offers a unique opportunity to understand the possibilities and prepare for the future.

[Click here to learn more and book your place](#)

IAgrE:

IAgrE is the professional body for scientists, technologists, engineers, academics, managers and students working in the land-based sector and has an international membership base.

As a licensed body of the Engineering Council (EngC) and a founding Constituent Body of The Society for the Environment (SocEnv), IAgrE registers suitably experienced professionals as Chartered Engineer (CEng), Chartered Environmentalist (CEnv), Incorporated Engineer (IEng), Registered Environmental Practitioner (REnvP) and Engineering Technician (Eng Tech).

For further details or if you would like to interview one of the conference speakers please contact Marion King at communications@iagre.org or call 01234 750876 – mobile 07843382362

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