AI in Livestock and Poultry Farming Symposium

Georgia Center for Continuing Education
University of Georgia, Athens, GA

September 2 – Morning

8:00 – 8:30   Opening Remarks   Deans Place and Thippareddi

Session 1: AI and Animal Productivity and Sustainability (Moderator: Dr. Guoming Li)

8:30 – 9:15   Josh Peschel (Iowa State University) - *Pigs, Pixels, and Predictive Models*

9:15 – 10:00   Suzanne Leonard (North Carolina) - *Data-Driven Sustainability in Animal Agriculture*

10:00 – 10:30   Coffee Break

Session 2: Frontiers in AI and Machine Vision (Moderator: Dr. Prashant Doshi)

10:30 – 11:15   Tianming Liu (University of Georgia) - *AI Foundation Models for Precision Poultry Science*

11:15 – 12:00   Madonna Benjamin (Michigan State U) - *Computer Vision, Quantitative Decisions, and the Unseen   Behaviors That Still Matter*

12:00 – 13:30   Lunch

September 2 – Afternoon

Session 3: AI and Precision Agriculture Training (Moderator: Dr. Prafulla Regmi)

13:30 – 14:15   Xiaoming Zhai (University of Georgia) - *AI in Education: Potential and Pitfalls*

14:15 – 15:00   Yanqiu Yang (University of Tennessee) - *Bridging Classrooms and Barns: Creating a Training Ecosystem for Precision Livestock and Poultry Farming"*

15:00 – 15:30   Coffee break

Session 4: Panel Discussion and Poster session (Moderator: Dr. George Vellidis)

15:30 – 16:30   Panel session - (Peschel//Leonard/Liu/Benjamin/Zhai/Yang)

16:30 – 18:00   Poster session – Social event

September 3 – Morning

Session 5: Feasibility vs need of AI and Precision Tools in PLF (Moderator: Dr. Lilong Chai)

8:00 – 8:45   Walker Byrnes (Georgia Tech) - *Driving Efficiency and Quality in Food Production with Practical Artificial Intelligence*

8:45 – 09:30   Xin Zhang (University of Georgia) - *Sensing, Automation, and AI to Advance Precision Agriculture*

Session 6: Digital Genomics: Intersection Between Genomics and Precision Tools (Moderator: Dr. Anderson Alves)

9:30 – 10:15   Bruno Valente (PIC) - *Genetics of Computer Vision Data at PIC: Current Practices and Emerging Research*

10:15 -10:45   Coffee Break

10:45 – 11:15   Vivian Breen (Cobb-Vantress) - *Next-Gen Poultry Breeding: Integrating AI, Vision/Sensor Systems, and Phenotypic Data to Accelerate Genetic Progress*

Session 7: Panel Discussion (Moderator: Dr. Romdhane Rekaya)

11:15 – 12:00   Panel session   (Byrnes/Zhang/Valente/Breen)

2:00 – 12:15   Closing Remarks

12:15 – 13:30   Lunch