



MATHEMATICS FOR AGRICULTURE

In recent years, the intersection of mathematics and agriculture has emerged as a pivotal domain, offering innovative solutions to address pressing challenges in both environmental sustainability and economic viability. This event serves as a collaborative platform, bringing together mathematicians, industry experts, and agricultural stakeholders to delve into the multifaceted aspects of this intersection.

The event is structured into two distinct yet interrelated panels:

1. **Environmental Panel:** This panel focuses on leveraging mathematical modeling, data analytics, and computational techniques to tackle environmental issues in agriculture. Discussions will revolve around optimizing resource management, mitigating climate change impacts, enhancing biodiversity, and promoting sustainable agricultural practices. Key topics include precision agriculture, ecosystem modeling, water management, soil health assessment, and biodiversity conservation strategies.
2. **Economic Panel:** Addressing the economic dimensions of agriculture, this panel explores how mathematical approaches can drive efficiency, resilience, and profitability within the agricultural sector. Experts will examine topics such as supply chain optimization, risk management, market forecasting, pricing strategies, investment analysis, and policy evaluation. Emphasis will be placed on bridging theoretical insights with practical applications to enhance competitiveness and foster growth in agricultural enterprises.

Through interactive discussions, case studies, and collaborative sessions, participants will exchange insights, share best practices, and explore novel methodologies to address the complex challenges facing modern agriculture. By fostering synergies between mathematics and industry, this event aims to catalyze innovation, drive sustainable development, and chart a path towards a more resilient and prosperous agricultural future.

PROGRAM

09:00 – 09:30: Reception

09:30 – 11:30: Environmental Panel (2 companies + 2 academics)

11:30 – 12:00: Coffee Break

12:00 – 12:30: Discussion

12:30 – 14:00: Lunch break

14:00 – 16:00: Economic Panel (2 companies + 2 academics)

16:00 – 17:00: Coffee Break + networking/posters

DATE AND VENUE

7 June 2024 (Friday)

Department of Mathematics, University of Coimbra

2nd floor (Room 2.4)

ORGANIZING COMMITTEE

Adérito Araújo (CMUC), Ana Jacinta Soares (CMAT), Filipe Oliveira (NOVA Math)