

MecaNano Pitching Event + Round Table on Machine Learning Applications (WG1– WG3)

Friday 12 December 2025 - Friday 12 December 2025

Online

Book of Abstracts

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1

Welcome & Objectives

A short introduction to the event, outlining the goals of the pitching session and the expected outcomes for participants across WG1–WG3.

2

Pitching session

Pitching Session

The pitching session is the core of the event. Each contributor has **5 minutes** to present a specific *problem, dataset, or methodological question* related to machine learning. The goal is a concise, problem-driven input to seed the expert-guided round table.

Guidelines for contributors

- Time limit:** 5 minutes (strict).
- Focus:** present the challenge and why ML is needed; avoid full result talks.
- Slides:** optional, max **1–2** slides to show context/data.
- Be explicit:** state the question you want experts to answer (e.g., model choice, data readiness, validation strategy).
- Data note:** briefly indicate data size, format, labeling status, and constraints (privacy, IP, access).
- Outcome target:** what would “success” look like in the next 3–6 months?
- Logistics:** if using slides, upload via Indico before the session (PDF preferred).

Expected outcome

- A curated set of well-defined research questions from WG1–WG3.
- Actionable guidance from ML experts to be addressed in the round table.
- Identification of potential collaborations and follow-up actions.

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Round table discussion

Interactive discussion guided by ML experts. Focus on addressing the problems raised in the pitches, exchanging best practices, and identifying possible collaborations.

4

Round table discussion –Part II

Interactive discussion guided by ML experts. Focus on addressing the problems raised in the pitches, exchanging best practices, and identifying possible collaborations.

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Wrap-up & outlook

Final summary of the event outcomes, highlighting recommendations, possible follow-up actions, and perspectives for the network.