

Report on the outcomes of a presentation and participation - Young Researcher and Innovator Conference¹

Action number: CA22145

Grantee name: Achille Morenville

Conference Details

Conference title: IEEE Conference on Games 2025 (IEEE CoG 2025)

Conference web-page: <https://cog2025.inesc-id.pt/>

Conference venue²: Lisboa, Portugal

Conference start and end date: 26/08/2025 to 29/08/2025

Accepted contribution details

Title of the presentation: Modeling Uncertainty: Constraint-Based Belief States in Imperfect-Information Games

Type of the presentation: oral

Co-authors: Éric Piette

Other details of the presentation: AI & Game Playing Track

Outcome of the conference participation

Description of the outcome of the presentation of the accepted contribution, in terms of grantee's visibility, including the establishment of new contacts for future collaborations

(max.500 word)

At the 2025 IEEE Conference on Games (CoG), I presented my paper, "Modeling Uncertainty: Constraint-Based Belief States in Imperfect-Information Games" in the AI & Game Playing track. This presentation provided valuable exposure within the community of researchers working on artificial intelligence, game theory, and imperfect-information games.

My talk generated interest from several experts who are also exploring general game playing for imperfect-information games. The questions and feedback I received after the presentation helped me clarify some aspects of my approach and identified promising directions for extending the framework I proposed. These exchanges were particularly valuable for identifying concrete ways in which my research can be connected to ongoing work in related areas.

Beyond direct feedback, the conference offered important networking opportunities. I was introduced to two Ph.D. students who are currently working on similar challenges in belief modeling for games. Our discussions revealed overlaps in methodology and applications, opening the door to potential

¹ This report is submitted by the grantee to the Action MC for approval and for claiming payment of the awarded grant. The Grant Awarding Coordinator coordinates the evaluation of this report on behalf of the Action MC and instructs the GH for payment of the Grant.

² For an online conference, specify virtual participation; for hybrid conferences, specify whether it is an in-person or virtual participation.

collaboration in the near future. Several participants also expressed interest in following the future development of this line of research, which raised my profile within the community. The event also allowed me to meet Professor Mark Goadrich, with whom I collaborated during an STSM at UCLouvain in June 2025. CoG provided an opportunity to strengthen our collaboration, and we are planning a joint paper based on our shared research interests.

Overall, the presentation enhanced the visibility of my work and created meaningful opportunities to interact with senior and early-career researchers. The feedback, contacts, and emerging collaborative prospects gained from CoG 2025 will be invaluable in advancing my research in the years to come.

Acknowledgement of inclusion of necessary supporting documents to claim the grant

I confirm that the following documents have been uploaded on e-COST as an integral part of this report:

- the certificate of conference attendance.
- the programme of the conference or book of abstracts / proceedings indicating the presentation (oral or poster) of the grantee.
- copy of the given presentation (oral or poster).