Report on the outcomes of a Virtual Mobility[1]

Action number: CA19130

Grantee name: MARCOS MACHADO

<u>**Virtual Mobility Details**</u>

Title: What do we Know About Fraud Detection in Peer-to-Peer Lending? A Systematic Literature Review

Start and end date: 10.09.2024 to 10.09.2024

**Funded by
the European Union**

Description of the work carried out during the VM

Description of the virtual collaboration and activities carried out during the VM, with focus on the work carried out by the grantee. Any deviations from the initial working plan shall also be described in this section.

(max. 500 words)

In the lead-up to the VM, we held multiple coordination meetings to establish the structure and goals of the VM, ensuring smooth cooperation among the diverse team members. These sessions, online, facilitated direct interactions.

During the VM, the various subteams, which had already convened several times, assembled to present their work and engage in in-depth discussions. These discussions aimed at improving review of papers and reseaech direction. Each subteam focused on a specific group of papers and analyzed different features of them, such as model development, stress test design, or data analysis, and shared and debated their preliminary findings during the VM sessions.

The grantee was pivotal in these activities, making significant contributions across all subteams. Their expertise in financial modeling and AI applications was crucial in refining the methodologies discussed during the VM.

Overall, the VM represented a culmination of thorough preparatory work and successful collaboration among several subteams. The contributions of the grantee and the meticulous editing by the core team played crucial roles in fulfilling the project's objectives under the COST Action CA19130.

Description of the VM main achievements and planned follow-up activities

Description and assessment of whether the VM achieved its planned goals and expected outcomes, including specific contribution to Action objective and deliverables, or publications resulting from the VM. Agreed plans for future follow-up collaborations shall also be described in this section.

(max. 500 words)

Main Achievements of the VM:

carried out under the COST Action CA19130 project, met several important goals. Notably, it led to the development and finalization of a detailed COST paper, which saw participation from contributors across more than five countries in our network. This paper meets one of the Action's designated deliverables directly.

Available at https://papers.ssrn.com/abstract=4948657, the paper is the result of a collaborative effort and compiles insights and research findings from various experts in the field. The inclusion of diverse perspectives and expertise from several countries has enhanced the paper, making it a significant addition to the field.

Planned Follow-Up Activities:

Looking ahead, the first step involves submitting this paper to a well-respected peer-reviewed journal. The goal of this submission is to achieve broader recognition within the academic sphere and ensure the findings are verified through a thorough review process.

Additionally, we aim to expand the authorship to include more contributors from our network. This enlargement is intended to add further depth and breadth to the research by incorporating new insights and possibly exploring additional aspects of the study.

This planned expansion not only continues our collaborative efforts but also illustrates the dynamic and evolving nature of our research under the COST Action CA19130. Increasing the number of authors and perspectives is expected to further bolster the relevance and impact of our work, particularly regarding AI and ML models in fraud detection.

In summary, the Virtual Meeting has played a crucial role in fulfilling an essential deliverable of the COST Action and lays a strong foundation for ongoing collaborative research and publication endeavors.

Additionally, a blog post will be created on LinkedIn, and the paper will be presented internally at the authors' universities.