

THELEM INSURANCE CHAIR
Data Science and Insurance Fraud Detection

CALL FOR APPLICATION
RESEARCH PAPERS

Deadline for submission: June 30, 2023

The Chair « Data Science and Insurance Fraud Detection » was created in 2021 thanks to the support of Thélem Assurances, a major French insurance company, in collaboration with the Laboratoire d'Économie d'Orléans, a leading research department specialized in econometrics and data science applications, and the Louis Bachelier Institute. The objective of the Chair is to contribute to the development and dissemination in the academic and professional fields of recent advances in data science applied to the field of fraud detection in the insurance industry.

The Steering Committee of the Chair invites submissions of first class theoretical and/or empirical research papers. The call for applications relates to the following topics:

Topic # 1 Insurance

- Impact of new technologies on the insurance offer
- Natural disaster risk insurance – Climate risk and insurance
- The impact of inflation on the insurance sector
- Data Science for insurance fraud detection
- Pricing in insurance and fairness
- Governance of AI algorithms in the insurance sector
- Interpretability of AI algorithms in the insurance sector

Topic # 2 Finance

- Detection of financial fraud (banking, insurance, social security contributions, etc.)
- Fight against money laundering and terrorism financing

A prize of **€10,000** will be awarded to each selected project. 40% of this amount will be paid in the weeks following the publication of the selected candidates.

Application procedure and timeline

The applications must be sent no later than **June 30, 2023**. All submissions will be studied by the Steering Committee of the Chair and the list of selected applicants will be published by the end of July 2023.

Projects must involve researchers affiliated to academic institutions. To apply, please submit:

- A research project between 5 and 10 pages (not including the bibliography) structured as follows:
 - o Interest of the topic and background
 - o State of the art
 - o Project description and methodology
 - o Expected contribution
 - o Presentation of the research team
 - o Budget and schedule
- CV of the researchers involved in the project

by email to chaire.thelem@univ-orleans.fr (with the subject: Call for applications – Insurance fraud detection). The documents, written in English, will be sent in PDF format (not exceeding 2 MB).

The final version of the paper should be sent before July 31, 2024 to: chaire.thelem@univ-orleans.fr. The remaining 60% of the prize will be paid after the acceptance of the final version.

The researcher will present his/her work during a conference organized by the Chair, which will take place in Orléans during the autumn of 2024 and to which international researchers and professionals will be invited.

Administrative contact

chaire.thelem@univ-orleans.fr

Scientific contacts

Denisa Banulescu-Radu
denisa.banulescu-radu@univ-orleans.fr
Alexis Direr
alexis.direr@univ-orleans.fr

About Thélem Assurances

[Thélem Assurances](#) is a French mutual insurance company, which manages more than 1 million contracts for 500,000 policyholders. It provides coverage for family (health, personal injury, savings), property (home, automobile) and liability (personal and professional). Its physical distribution network includes 285 agencies in 53 departments and 246 brokers.

About the Laboratoire d'Économie d'Orléans

The [Laboratoire d'Économie d'Orléans](#) is a research department of the University of Orléans. It has about one hundred members, whose research covers three main areas of expertise: Macroeconomics and Finance, Econometrics and Machine learning, International Economics and Sustainable Development.

About Louis Bachelier Institute

The [Institut Louis Bachelier](#) aims to promote sustainable development in Economics and Finance. It currently hosts more than 60 programs in four societal transitions: environmental, digital, demographic and financial. Its core objective is to promote the exchange of knowledge and to develop public-private-academic collaborations.