

ICAIF'24

5th ACM International Conference on AI in Finance

ICAIF-22 Call for Papers & Workshop Proposals

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3rd ACM International Conference on AI in Finance (ICAIF-22)

Call for Papers

Advances in Artificial Intelligence and Machine Learning have revolutionized techniques for data processing and analysis across financial markets and services.

ICAIF is a scholarly peer-reviewed conference that aims to bring together researchers from both academia and industry to share challenges, advances, and insights on the impact of Artificial Intelligence and Machine Learning on finance. ICAIF is supported by the Association for Computing Machinery (ACM).

ICAIF 2022, in its third year, follows two successful events in 2020 and 2021 with more than 1400 participants in total. Presently ICAIF'22 is planned as an in-person event, to be held in New York on November 2-4, 2022.

We invite participation from academia, government, regulatory agencies, financial institutions, NGOs, and other stakeholders in the AI and Finance community.

Please join us for this event in November 2022!

Program Cochairs

Senthil Kumar (Capital One)
Rahul Savani (University of Liverpool)
Renyuan Xu (University of Southern California)

General Chair

Daniele Magazzeni (J.P. Morgan)

Important dates

- ~~Full Paper Submission: Wednesday, 6 July 2022~~
- ~~Workshop proposal deadline: Monday, 6 June 2022~~
- ~~Author Notification: Thursday, 1 September 2022~~
- **Camera-ready deadline: Thursday, 22 September 2022**
- Workshops: Wednesday 2 November 2022
- Main Conference: Wednesday-Friday, 2-4 November 2022

Topic Areas

ICAIF'22 invites high-quality research paper submissions that connect AI and Finance from both methodological and applicational perspectives.

Methodologies should be relevant to general financial problems that may include but are not limited to:

- Generative models and data-driven simulation
- Reinforcement learning and federated learning
- Meta learning and transfer learning
- Representation learning, natural language processing, and time series prediction
- Validation and calibration of financial models
- Multi-agent systems and game-theoretic analysis of financial markets
- Explainability, ethics, and fairness of AI & ML systems
- Security, and privacy of AI & ML systems
- Computational regulation and compliance in finance
- Robustness and uncertainty quantification
- Quantum computing
- Graph theory and network analysis

Potential applications of interest may include but are not limited to:

- Fraud detection for credit cards and mortgages
- Early detection of firm defaults
- Blockchain and cryptocurrency
- Risk modeling and risk management
- Trading (for example, optimal execution, market making, smart order routing and hedging)
- Asset pricing
- Robot-advising and investment recommendations
- Forecasting of financial scenarios
- Financial time series analysis and factor models

For the latest information

- Visit the website: <https://aifin2020.wordpress.com> (<https://aifin2020.wordpress.com>).
- Subscribe to the email list: groups.google.com/forum/#!forum/aifin-worldwide (<https://groups.google.com/forum/#!forum/aifin-worldwide>).
(<https://groups.google.com/forum/#!forum/aifin-worldwide>)

Get in touch

- General chair: generalchair@ai-finance.org (<mailto:generalchair@ai-finance.org>).
 - Program chairs: programchair@ai-finance.org (<mailto:programchair@ai-finance.org>).
 - Learn about corporate financial support opportunities: sponsors@ai-finance.org (<mailto:sponsors@ai-finance.org>).
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Call for Workshop Proposals

The ICAIF'22 workshop organizing committee invites proposals for ICAIF Workshops from academia, government, regulatory agencies, financial institutions, NGOs, and other researchers and practitioners in the AI and Finance community. We particularly encourage proposals from women and individuals from underrepresented minorities.

Workshop organizers are responsible for the full execution and planning of the workshop.

ICAIF Workshops provide a platform for bringing together people with common interests to form communities. Good workshops can help to evaluate and contrast competing perspectives.

ICAIF Workshops aim to tackle emerging topics, explore industry-wide challenges, strategic opportunities, novel tools, and techniques, and start industry-wide conversations.

ICAIF Workshop schedules should encourage lively debates, stimulate the production of new ideas and the discussion of controversial issues.

Important dates

- Workshop Application Deadline: 6 June 2022
- Workshop Acceptance Notification: 24 June 2022
- Submission Date for Workshop Contributions: TBD
- Mandatory Accept/Reject Notification Date: 12 September 2022
- Workshops: 2 November 2022

Duration

All ICAIF Workshops will be half day events (including all paper presentations, talks and other events).

Proposal Submission

ICAIF Workshop proposals should be 4-6 pages in length and include:

- Workshop Topic and Title: Describe the specific topic(s) the workshop will focus on. Only the workshops on AI in financial services will be considered.
- Motivation: Discussion on why the topic is of importance for AI in finance. If applicable, please include discussion on prior workshops in the area.
- Organizing Committee: Brief biographies for the organizing committee – focusing on the relevant experience, highlights, and expertise in the field of the workshop. If applicable, please highlight prior workshops organized by the organizers. The names and contact information of the organizing committee members. Identify primary contact (email/phone number) to coordinate with the ICAIF Organizing Committee.
- Tentative Program Committee and Invited Speakers: The proposals are expected to include a tentative list of invited and keynote speakers as well as a list of program committee members. Workshops may include keynotes, invited talks, paper presentations, poster sessions.
- Format: Describe the workshop format including but not limited to the invited talks, panels, poster sessions, paper presentations, other events such as discussions.
- Comparable Workshops: Please discuss comparable or similar workshops organized at prior ICAIF and/or AI conferences. Please specify if the workshop is a continuation of a series of workshops in other venues. This information will be used to assess the novelty and context of the workshop as well as the contents with respect to comparable workshops.

Submit your proposal by email: ICAIF2022.workshops@gmail.com (you will receive a confirmation email once the proposal is received).

ICAIF workshops are expected to be academic workshops. Hence product offerings and marketing-based workshops will not be considered.

Organization

ICAIF workshops will be run by the organizing committees independently, in coordination with the ICAIF Organizing Committee.

Proposal Evaluations

ICAIF Workshop proposals will be evaluated by a committee of experts from AI in Finance, consisting of industry, academia, and government contacts. The program committee for proposals and accepted workshops will be announced on the ICAIF website.

Main selection criteria:

- The novelty, timeliness, and relevance to AI Finance community.
- The degree to which it is expected that the community will find the workshop interesting, exciting, and valuable
- Quality of proposed invited speakers
- Organizational experience and ability of the team

Call for Papers/Call for Participation

Workshop organizers will be responsible for creating and publicizing a Call for Papers/Call for Participation for their respective workshops. Call for submissions deadlines are required to be aligned with the dates and deadlines, as specified above.

Workshop Attendance

Accepted papers and workshop attendance decisions will be made by the workshop organizers. Accepted papers should be announced in accordance with the ICAIF general guidelines as specified above.

Workshop organizers are responsible for the acceptance communications as well as the paper review process. They are expected to propose a program committee for the review process. Workshop organizers are required to provide a tentative list of participants by Oct. 4 and encourage registration prior to the conference registration deadline.

Website and Proceedings

The workshop proceedings will not be a part of the ACM proceedings of the main conference. ICAIF Workshops are required to maintain workshop websites including the workshop proceedings

Quality and Content Criteria

ICAIF workshops are expected to meet the quality and content standards similar to the main conference. The workshop topics should be broadly within the field of AI in finance. Workshops on topics outside of the scope will not be considered.

Workshop organizations are expected to follow common academic quality and conflict of interest criteria.

Papers accepted to the ICAIF 22 main program cannot be part of the Workshop programs. ICAIF Workshop organizers are encouraged to ask for novel contributions in the call for papers, limiting publications of papers in prior venues to a minimum.

Venue Support

ICAIF 2022 conference will be in person in New York. ICAIF will provide access and logistic support to the conference venue for the workshops. Workshop organizers are also encouraged to use the review platform selected by ICAIF for their specific programs, while independently maintaining their paper decisions and committee/reviewer lists.

Dates and Schedule

Workshop dates and start/end times will be determined by the ICAIF organizing committee. However, the Workshop organizers are responsible for the workshop program, including but not limited to the detailed schedule of the workshop itself. The Workshop program and other workshop information should be included on the workshop website

ICAIF reserves the right to drop any workshop if the organizers miss the above deadlines, requirements or if there is insufficient participation.

Workshop-related questions should be directed to: ICAIF2022.workshops@gmail.com.

ICAIF-22 Workshop Cochairs

Blanka Horvath (Technical University of Munich)

Ruimeng Hu (University of California Santa Barbara)

ICAIF-22 General Chair

Daniele Magazzeni (J.P. Morgan)

A WordPress.com Website.