

Abstract

Oberwolfach Workshop:

New Challenges in the Interplay between Finance and Insurance

Dates:

1 October - 7 October 2023 (Code: 2340)

Organizers:

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The last two years have been a challenging period on financial and insurance markets. While stock markets experienced unexpected large price jumps, insurance and reinsurance companies suffered huge claims, and are at the same time faced with the problem of dealing with high volumes of data. On the other side, the continuously increasing level of computer power allows for totally new approaches relying on neural networks. In addition, the dramatic impact of climate change poses a further challenge to both fields. In combination with the current low-interest rate environment, the challenges for Insurance and Finance could hardly be larger.

The goal of the proposed workshop is to bring together leading experts in these fields to stimulate the development of new approaches. There has been a sparking progress in dealing with uncertainty and developing robust frameworks, in sustainability and in machine learning in these research areas. These fields have strong intersections and there is an intensive need on fostering the interaction in these groups. The topics to be covered include model risk, robust methods, optimal transport, sustainable Finance and Insurance and machine learning approaches, in Finance, Insurance and in their interplay.