



Loss Models: From Theory to Applications

Guest Editors:

Prof. Dr. Jae Kyung Woo

School of Risk and Actuarial
Studies, University of New South
Wales, Sydney 2052, Australia

Dr. Eric Cheung

School of Risk and Actuarial
Studies, UNSW Business School,
UNSW, Sydney, NSW 2052,
Australia

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Message from the Guest Editors

Dear Colleagues,

The first edition of the textbook *Loss Models: From Data to Decisions* by Klugman, Panjer, and Willmot was published in 1998. The past 20 years have seen the development of actuarial risk theory, along with the availability of more advanced statistical techniques, huge amount of data, and computational power. This special issue aims to celebrate its 20th anniversary by collecting state-of-the-art research papers tackling the latest challenges in theory and/or applications of loss models.

While collective risk models are commonly used in general insurance and health insurance, they can also be utilized to model other types of risks, such as operational and credit risks. Due to the interdisciplinary nature of the subject, related models are often found in other areas, such as queueing theory, financial risk management, and statistics. We warmly welcome papers related, but not limited to, the following topics:

- Frequency/severity/compound distributions;
- Risk/loss aggregation;
- Ruin theory;
- Credibility theory;
- Reinsurance;
- Dependence structure;
- Extreme value theory;
- Risk measures; and
- Fitting and inference of loss models.





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Editor-in-Chief

Prof. Dr. Steven Haberman

Faculty of Actuarial Science and
Insurance, Bayes Business
School, City University of London,
106 Bunhill Row, London EC1Y
8TZ, UK

Message from the Editor-in-Chief

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- contribute with insight, outlook, understanding and overview, no matter how simple they are;
- show creativity in pedagogical tricks and techniques;
- help the transfer of theoretical research to public and private application;
- show responsibility for societal impact.

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Risks Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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