Fourteenth International Lecture on Hazard and Risk

ENGAGE Geomorphological Systems & Risk Research

universität wien

EINLADUNG ZUM VORTRAG

am MITTWOCH, 26. MÄRZ 2025, 16:45 UHR

Universität Wien • Universitätsstr. 7 • 1010 Wien

HÖRSAAL II (Erdgeschoß)

Dr. **Stefan HOCHRAINER-STIGLER**

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Foto: IIASA

IMPACT BASED DEPENDENCIES AND NAVIGATING THROUGH COMPLEXITY WAYS FORWARD BASED ON IDEAS FROM SYSTEMIC RISK RESEARCH

The presentation will introduce some concepts used in systemic risk research to provide ways forward how to deal with cascading and compound risks, focusing on natural disaster events. It is argued that through the introduction of impact-based dependencies, e.g. using network-based approaches, cascading effects that could lead to systemic risk realization can be better incorporated in current and future modelling approaches dealing with complex risks. In addition, the management of such risks, including transformation, can be related with top-down and bottom-up approaches with co-development as the link between both.

Stefan Hochrainer-Stigler is a principal research scholar within the Systemic Risk and Resilience (SYRR) research group at IIASA, and the leader of the Systemic Risk Analysis and Modeling theme. His main research interests include risk management of systemic risks and natural hazard induced disaster events, statistical (stochastic) modeling of rare and systemic events, extreme value theory, dependency of risks using copula approaches, econometrics, and multivariate analysis. He has published widely, including a number of books, book chapters and articles in major peer-reviewed journals such as Nature and Global Environmental Change.

Diese Veranstaltung ist Teil der Circle U. - Lecture Series:
Natural Hazards, Vulnerability and Disasters (2025S)
Institut für Geographie und Regionalforschung
Universität Wien

INTERESSIERTE sind herzlich eingeladen, am Vortrag teilzunehmen und zur Diskussion beizutragen. Die Teilnahme ist über Moodle (eingebetteter Link oder QR-Code) oder auch vor Ort möglich.