Prior to the PhD defence by Changqing Lu on the 27th of February, 2025, of the thesis "Statistical and machine learning contributions to spatial and spatio-temporal point process modelling, with an application to Dutch fire risk prediction", there will be a symposium with both national and international speakers. Talks will be given by Rémi Bardenet (University of Lille), Geurt Jongbloed (Delft University of Technology), Rasmus Waagepetersen (Aalborg University) and Ron de Wit (Twente Fire Brigade).

The topics of the talks include advanced methods for approximating smooth functions using determinantal designs, recent developments in addressing classical problems from stereology, and insights into the asymptotic normality of conditionally centered space-time processes. The program also explores data-driven approaches to risk management, with a focus on present and future applications for fire services.

Programme:

09:15 – 09:30	Welcome and opening (Carre 2N)
09:30 – 09:55	Rémi Bardenet: Approximating smooth functions with determinantal designs
09:55 – 10:20	Geurt Jongbloed: Recent developments in a classical problem from stereology.
10:20 – 10:30	Coffee break
10:30 – 10:55	Rasmus Waagepetersen: Asymptotic normality for conditionally centered space-time processes
10:55 – 11:20	Ron de Wit: Data-driven risk management: Present and future applications for fire services.
11:20 – 11:25	Closing
	Lunch
12:30 – 14:00	Defence Changqing Lu (Waaier 4, room open at 12:00)
14:00 – 15:00	Reception

The symposium and the defence will both be made hybrid. Links to the events and abstracts will be provided later on the website of the Stochastic Operations Research group at University of Twente.