

An input-output framework for assessing hurricane impact on regional workforce productivity

Topic: Modelling disasters

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This research develops a workforce recovery model based on input-output analysis to estimate sector inoperability and economic losses. Based on our simulated hurricane scenarios, service sectors in Virginia suffer the largest workforce productivity impact—accounting for nearly 40% of the total economic losses. Sensitivity analysis of inoperability and loss reduction objectives can provide insights on identification and prioritization of critical workforce sectors to expedite disaster recovery.