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1 message

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Title: Fire Simulation and Modelling for Data Centers

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Abstract: Data in our modern world is the most important currency. The whole world works on various kinds of data. It is crucial that this data is safely stored and not lost. Servers come to mind when large data storage is required. Many servers are needed, so server racks are grouped together in buildings - called data centers. Though data centers are typically safe, at anytime disaster can strike. Fires often break out of data centers which are difficult to control. All data in the racks are destroyed. As such, fire modelling in data centers are essential to stop fires from destroying servers. A background study is conducted in chapter 2. Details on data center fire detection is discussed in 3, followed by fire suppression systems in 4. Chapter 5 shows a machine learning-based approach to fire detection suppression with all details and model simulation is shown in 6. Lastly, conclusion then future research.

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