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(57) Abstract :

A system (100) to determine a number of patients in a pandemic and estimate a total number of deaths therefrom is provided. The system includes a server (104) configured to receive data from a plurality of data sources (102-1, 102-2, 102-N), and obtain the number of patients present currently in an area of interest based on the received data (102-1, 102-2, 102-N) and thereby estimate the total number of deaths based on the obtained number of patients. The total number of deaths are estimated by utilizing Markov Chain Monte Carlo, Bayesian inference, and machine learning techniques.

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