

Vector-Borne Disinformation During Disasters and Emergencies

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During disasters and emergencies (earthquakes, pandemics, economic crises, etc.), we also face a second challenge: information pollution. The transmitted information may be false, potentially harmful, and speculative. Today, the main source of information is social media, which behaves as a vector via sharing news. In this presentation, the concept of the transmission dynamics of vector-borne diseases is adapted to the transmission dynamics of vector-borne disinformation. The dynamical behavior of the model is analyzed, the disinformation-free and disinformation-endemic equilibria of the model are found, and both their local and global stabilities are also discussed. Numerical simulations are also carried out to support the analytical results of the dynamical transmission of disinformation.