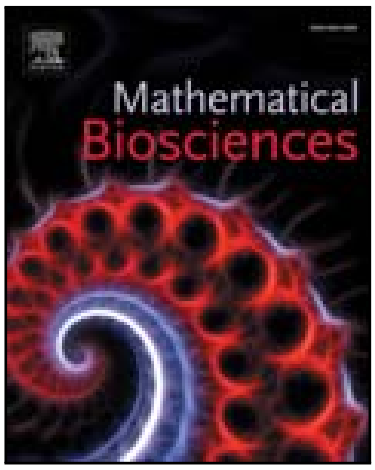

A Filippov model describing the effects of media coverage and quarantine on the spread of human influenza

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Highlights

- If the infected threshold is sufficiently low, the number of infected individuals will reach a globally asymptotically stable equilibrium and hence an influenza outbreak.
- As the threshold level rises, solutions converge to a pseudoattractor or a pseudoequilibrium on the boundary or a unique globally asymptotically stable equilibrium.
- For appropriate choices of the thresholds, this can be stabilized, eliminating the infection.