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A self-organised method for determining the critical value of percolation-like processes on (multiplex) networks

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We illustrate a method for mapping critical processes (percolation, infection, infection in the presence of risk perception) onto self-organised processes, i.e., processes that automatically converges towards the critical threshold. This procedure can be carried on with infinite precision for "convex" systems (systems for which the probability of infection.percolation grows monotonically with control parameters), while for a generic process it may give results with fixed (but arbitrary) precision.

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