บทความ Finite-time event-triggered approach for recurrent neural networks with leakage term and its application

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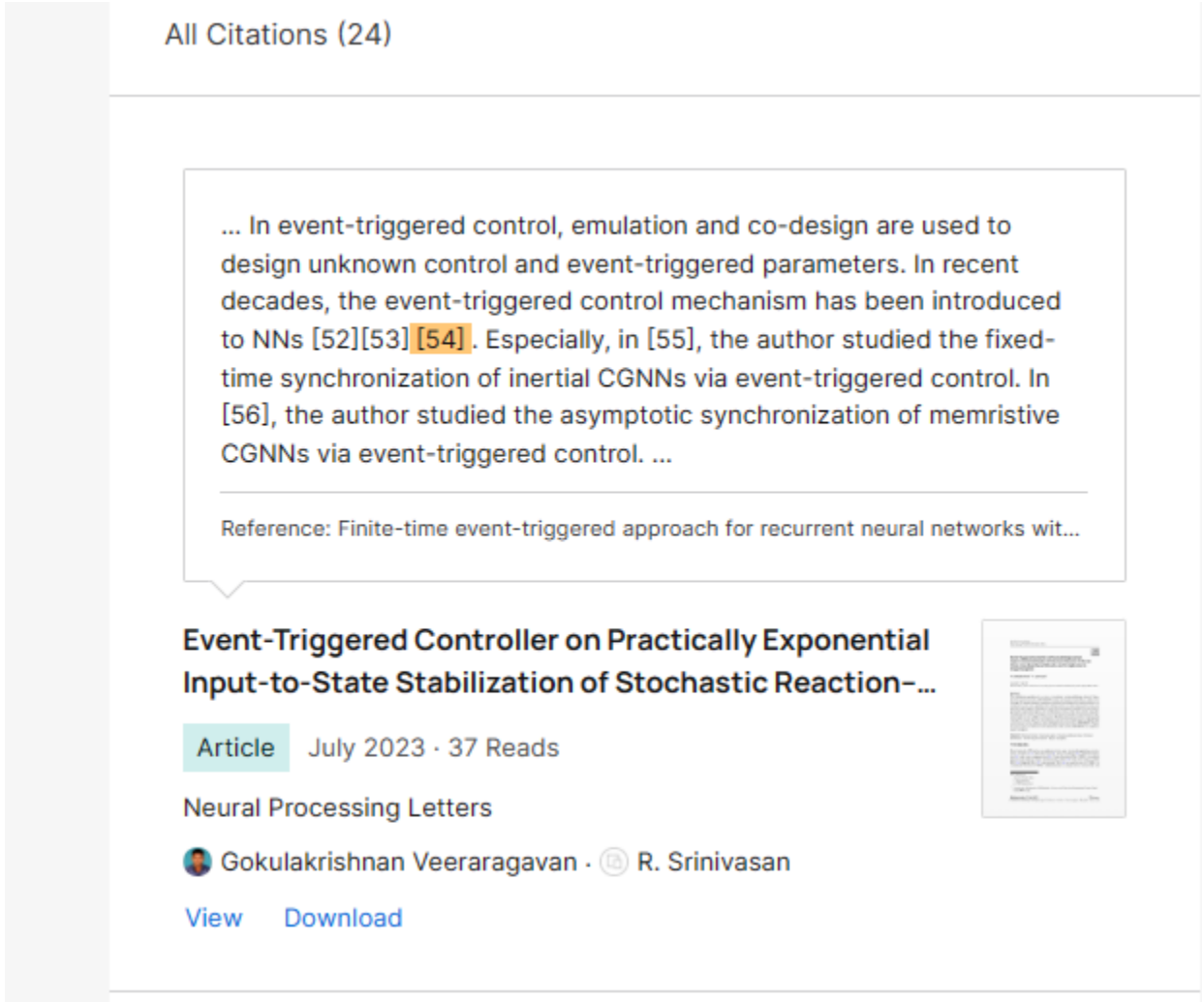

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Event-Triggered Controller on Practically Exponential Input-to-State Stabilization of Stochastic Reaction–Diffusion Cohen–Grossberg Neural Networks and Its Application to Image Encryption

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Abstract

The stabilization problem for a class of stochastic reaction–diffusion delayed Cohen–Grossberg neural networks (SRDDCGNNs) with event-triggered controllers is addressed in this paper. Neumann boundary conditions, distributed and bounded external disturbances are introduced to solve such a problem. New sufficient criteria are derived using the 2-norm event generator and Lyapunov functional to ensure that the proposed controlled systems achieve practically exponential input-to-state stabilization in terms of the linear matrix inequality. Considering these criteria, the impact of an event-triggered controller on the practically exponential input-to-state stability is investigated. The Zeno phenomenon of the event-