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## Generalized Synchronization of Different Chaotic System via Linear Mapping

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**Abstract:** A generalized approach for constructing chaotically synchronized Shimizu Morioka system via linear transformations is proposed. Proposed method is much simpler than the method proposed by Pecora and Carroll (1990). This method is very useful for synchronization of hyper-chaotic system because Lyapunov exponents need not required to calculate. This method can predict the responding system's behaviour by knowing the driving system's

Keywords: Generalized Synchronization ; Shimizu Morioka system; Linear transformations

