

# 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