

國立東華大學應用數學系
應數講座

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講題：The solution structure of multi-layer cellular neural network equations

時間：102 年 04 月 03 日 (星期三) 10:30-11:00

地點：理工一館 A324 會議室

摘要

In this talk, we study the relations between the output and hidden spaces of the multi-layer cellular neural network equations (MCNN), it can be proved that both of these spaces are sofic shifts, and there are many examples demonstrate that these spaces are strict sofic but not Markov. If the length of the layers is 2, all types of equivalent relations, e.g., strong shift equivalence, shift equivalence, finite shift equivalence and topological conjugacy are used to characterize the solution structures of output and hidden layers. Finally, the solution structures of MCNN for any finite layers can also be characterized.



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