

國立高雄大學應用數學系105學年度第2學期碩士班書報討論報告

地 點：應用數學系多媒體教室（理408室）

日 期：106年5月31日（星期三）

演講者	時 間	講題	摘要
林冠宇	14 : 00 ~ 14 : 30	Reprove the Perron-Frobenius Theorem by the Homotopy Continuation Method	The result of the Perron-Frobenius theorem is elegant for nonnegative irreducible matrices and it has been applied widely, e.g., Markov chains, graph theory and numerical methods. But the original proof is too complicated and cannot be understood directly. This presentation gives an elementary proof of Perron-Frobenius theorem by the homotopy continuation method.
呂政和	14 : 30 ~ 15 : 00	A Brief Survey of Error-Correcting Pooling Design	In this presentation, I will take a brief survey of some results about error-correcting pooling design, including the relation between d^e -disjunct matrix and error-tolerant capability, and the improvement of error-tolerant capability of a d^e -disjunct matrix which is constructed by the property of set inclusive.
蘇振威	15 : 00 ~ 15 : 30	Finding a majority among N balls	Given a list of n numbers, we wish to decide if there is a majority ball and what that ball is. The majority ball is more than half of the balls on the result of the computation. Steven L. Salzberg and Michael J. Fische provide an algorithm that uses at most $\lceil 3n/2 \rceil - 2$ comparisons, which is also optimal.