

國立高雄大學應用數學系104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：105年5月25日（星期三）

演講者	時 間	講題	摘要
高冀正	14：00 ～ 14：30	Profiling Online Social Behaviors for Compromised Account Detection	In this paper, we study the social behaviors of online social network(OSN) users, i.e., their usage of OSN services, and the application of which in detecting the compromised accounts.
楊子萱	14：30 ～ 15：00	SDA-2 in Numerical Solution of Nonlinear Matrix Equation	We study numerical solution of nonlinear matrix equation by using structure-preserving doubling algorithm 2. We will introduce structure-preserving doubling algorithm 2, and show this program with MATLAB.
黃冠豪	15：00 ～ 15：30	Search with density tests	The concept of group testing was developed in the middle of the previous century. Dorfman, a Swiss physician intended to test blood samples of millions of soldiers during World War II in order to find those who were infected by syphilis. His key idea was to test more blood samples at the same time and learn whether at least one of them are infected. Some fifteen years later Rényi developed a theory of search in order to find which electrical part of his car went wrong. In his model – contrary to Dorfman’s one – not all of the subsets of the possible defectives (electric parts) could be tested. Group testing has now a wide variety of applications in areas like DNA screening, mobile networks, software and hardware testing.