

國立中山大學應用數學系  
96學年『高斯獎』數學論文發表競賽  
得獎名單

Date: 2007/12/13~12/21

統計組-碩士生

| 名次    | 姓名  | 年級 | 題目  | 獎學金   |
|-------|-----|----|---|-------|
| 1-傑出獎 | 郭家銘 | 碩2 | Chapter19: An Evaluation of Process Capability for a Fuel Injector Process Using Monte Carlo Simulation<br>Chapter 20: Data Fusion and Maintenance Policies for Continuous Production Processes   | 5,000 |
| 2-優等獎 | 劉慶安 | 碩2 | Chapter 15: A Simplified Simulation of the Impact of environmental Interference on Measurement Systems in an Electrical Components Testing Laboratory   | 3,000 |
| 3-甲等獎 | 林詠嘉 | 碩2 | Chapter 5: Comparison of hospital length of stay between two insurers for patients with pediatric asthma<br>Chapter 6: Comparing nonsteroidal anti-inflammatory drugs with respect to stomach damage  | 2,000 |
| 佳作獎   | 何俊憲 | 碩2 | Chapter 1: Are the Fish Safe to Eat?<br>Chapter 2: Chemical Assay Validation.   | 1,000 |
| 佳作獎   | 周佩欣 | 碩2 | Chapter 3: Automating a manual telephone process<br>Chapter 4: Dissolution method equivalence   | 1,000 |
| 佳作獎   | 劉惠文 | 碩2 | Chapter 13: Investigating Flight Response of Pacific Brant to Helicopters at Izembek Lagoon, Alaska by Using Logistic Regression<br>Chapter 14: Estimating The Biomass of Forage Fishes in Alaska's Prince William Sound Following the Exxon Valdez Oil Spill | 1,000 |

數學組-碩士生

| 名次    | 姓名  | 年級 | 題目   | 獎學金   |
|-------|-----|----|--|-------|
| 1-傑出獎 | 許銘修 | 博1 | The geometric means in Banach *-Algebras   | 5,000 |
| 2-優等獎 | 林倩如 | 碩2 | Ambarzumyan-Tape theorems for the Sturm-Liouville operator on Star-Shaped graphs | 3,000 |
| 3-甲等獎 | 張家榮 | 碩2 | Bipartite density of triangle-free subcubic graphs                               | 2,000 |
| 佳作獎   | 李介誠 | 碩2 | Smale's mean value conjecture coefficient functions                              | 1,000 |
| 佳作獎   | 蘇芳媚 | 碩2 | Contour vertices in cartesian product graph                                      | 1,000 |
| 佳作獎   | 紀文德 | 碩2 | On an interpolation property of outerplanar graphs                               | 1,000 |

統計組-博士生

| 名次    | 姓名  | 年級 | 題目   | 獎學金   |
|-------|-----|----|--|-------|
| 1-傑出獎 | 蘇南誠 | 博7 | Characterizations based on record values and order statistics  | 6,000 |
| 2-優等獎 | 洪宛頻 | 博5 | A two-stage design for locally more powerful two-sample p test   | 4,000 |
| 3-甲等獎 | 許湘伶 | 博4 | Optimal designs for non-linear regression models   | 3,000 |
| 佳作獎   | 林良靖 | 博1 | Studies on the Estimation of Integrated Volatility for High Frequency Data   | 2,000 |
| 佳作獎   | 王澄祥 | 博3 | Spatial-Correlation-Coefficient at the Basestation, in closed-Form Explicit Analytic Expression, Due to Heterogeneously Poisson Distributed Scatters | 2,000 |

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數學組-博士生

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|-------|-----|----|--|-------|
| 1-傑出獎 | 顏珮嵐 | 博3 | The Convexity Spectra of Graphs  | 6,000 |
| 2-優等獎 | 王雅書 | 博4 | Biseparating linear map between little Lipschitz algebras                | 4,000 |
| 3-甲等獎 | 王推恩 | 博2 | An inverse nodal problem on semi-infinite intervals                      | 3,000 |
| 佳作獎   | 張定邦 | 博3 | Forcing Convexity Number of Some Operations of Graphs                    | 2,000 |
| 佳作獎   | 楊宗穎 | 博4 | The 4-choosability of Toroidal graph without 4-face and adjacent 3-faces | 2,000 |
| 佳作獎   | 王鴻志 | 博5 | Geodetic spectra of graphs   | 2,000 |

科學計算組-碩士生及博士生

| 名次    | 姓名  | 年級 | 題目  | 獎學金   |
|-------|-----|----|---|-------|
| 1-傑出獎 | 吳鼎鈞 | 碩2 | The Trefftz Method Using Fundamental Solutions for Biharmonic Equations                                       | 5,000 |
| 2-優等獎 | 胡世聰 | 碩2 | High Order FEMs Using Penalty Techniques for Poisson's Eigenvalue Problems with Periodical Boundary Condition | 3,000 |
| 3-甲等獎 | 林瑋玲 | 碩2 | The Trefftz Method Using Fundamental Solutions and Particular Solutions for Exterior Problems                 | 2,000 |
| 佳作獎   | 李幸娟 | 博1 | Numerically Stable, Structure-preserving Algorithms for Palindromic Quadratic Eigenvalue Problems             | 2,000 |
| 佳作獎   | 趙怡茹 | 博1 | Structure-preserving algorithm for periodic discrete-time algebraic Riccati equations                         | 2,000 |
| 佳作獎   | 羅琳峰 | 碩2 | The Method of Fundamental Solutions for Helmholtz Equation  | 1,000 |

大學組

| 名次    | 姓名  | 年級 | 題目                                     | 獎學金   |
|-------|-----|----|--|-------|
| 1-傑出獎 | 陳志瑋 | 大4 | 有限體上的冪次和表示                             | 5,000 |
| 2-優等獎 | 官振傑 | 大4 | Adaped List Colouring of Planar Graphs | 3,000 |