

出國報告（出國類別：國際學術交流會議）

美國 INFORMS 大會

服務機關：應用數學系

姓名職稱：陸行

派赴國家：美國

出國期間：102 年 10 月 5 日至 10 月 13 日

報告日期：10 月 22 日

摘要

因為參加美國 INFORMS 大會，於返台途中順道接受 George Zhang 教授邀請訪問西華盛頓大學(Western Washington University)，西華大也是本校的姐妹校，訪談的教授包括 Dr. Craig Tyran、 Dr. Tom Roehl 和 Dr. Mark Springer 增加彼此了解，加強友誼，對於未來的研究工作和國際交流有正面而且直接的影響。

在訪談中我特別介紹政大的國際學生和環境，也強調政大的優勢和面臨的挑戰。未來可以和理學院、商學院等單位建立更多互訪和合作的關係。

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目的

藉參加美國 INFORMS 大會之便，於返台途中接受 George Zhang 教授邀請訪問西華盛頓大學(Western Washington University，政大姐妹校)。訪談的教授包括 Dr. Craig Tyran、 Dr. Tom Roehl 和 Dr. Mark Springer 增加彼此了解，加強友誼，對於未來的研究工作和國際交流有正面而且直接的影響。

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過程

10月5日前往美國明尼阿波利斯市參加 Informs 的會議。到達時間已經是10月6日早上7:00。爾後四天在明尼阿波利斯市參加會議，詳細情形記載於國科會出國報告。

10月10日早上搭機趕赴西華盛頓大學，由於兩地距離甚遠，到西華大時已是下午。10月11日才開始全天的參訪活動。詳細行程由西華大安排如下

Friday Oct 11

8:30 am – Pick up from Days Inn by George Zhang

9:00 am – 11:30 am – Discuss Research with George Zhang

11:30 am – 12:00 pm – Meet Professor Craig Tyran (Chair of Department of Decision Sciences)

12:00 pm – 1:00 pm – Lunch with George Zhang

1:00 pm – 2:00 pm – Meet with Professor Tom Roehl (International Business)

2:00 pm – 2:40 pm – Meet with Professor Mark Springer (Operations Management and an Associate of CORMS)

2:40 pm – 3:30 pm – Meet with Ms. Sue Su (Quantitative Method)

3:30 pm – 5:30 pm – Discuss with George Zhang on the QTNA 2014

6:00 pm – 7:30 pm – Dinner with George Zhang and Sue Su

8:00 – leave Bellingham to Vancouver Airport (George will drive him to YVR).

西華大是政大的姐妹校，TomRoehl教授在芝加哥大學的學生譚丹琪，目前是本校國貿系教授，政大與西華大過去也有交流和合作。GeorgeZhang 教授在西華大成立運籌與管理中心(Center for Operations Research and Management Sciences)簡稱 CORMS。本人受邀擔任該中心委員，因此特別以這次會議作為進一步討論合作和發展的可行性，

於此同時也加強宣傳理學院與應用數學系，討論未來如何連結課程，讓學生方便選讀；也討論研究和可能的合作與發展。

這次會議的成果是於 2014 年彼此合作籌組在西華大開國際研討會，邀請日本、韓國、中國、美國和加拿大學者與他們的研究生發表學術論文。

心得及建議：

感謝頂大的經費用於支持在參加國際會議後順道進行參訪，加強國際交流和學術合作。若沒有這項經費，國科會計畫主持人可能無法於不變更計畫項目的情形下，利用會議後以最低的經費執行這種簡單而有效的合作互惠計畫。



SEGAL GRADUATE
SCHOOL OF BUSINESS

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August 27, 2013

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Dear Professor Luh

I would like to invite you to come and visit me in the Beedie School of Business at Simon Fraser University from October 10 to October 13, 2013. During the visit, I would like to discuss with you on our current joint research projects, and explore more future research opportunities.

If you have any questions, please contact me at (778) 782-5559 or by e-mail via my website at <http://www.sfubusiness.ca/homes/gzhang/gzhang.htm>

Best regards,

Yours truly,

A handwritten signature in black ink, appearing to read "Zhe George Zhang".

Zhe George Zhang

Professor in Management Science,
Beedie School of Business
Simon Fraser University



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Important Dates

- August 12 – Authors' deadline for final abstract changes
- September 3 – Early registration deadline
- September 3 –Hotel reservation cut-off date

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Session Detail Information

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Cluster : International Activities Committee

Session Information : Tuesday Oct 08, 11:00 - 12:30

Title: International Journal of Operations Research (IJOR) and Journal of Industrial and Production Engineering (JIPE)
Chair: Hsing Luh, NCCU, Dept of Math Science, Nat'l Chengchi Uni, No. 64, Shih Nan Road, Wen-Shan District, Taipei 116,
Taiwan - ROC, sluh@nccu.edu.tw
Co-Chair: Kuo-Huang Chang, Assistant Professor, National Tsing Hua University, No. 101, Section 2, Kuang-Fu Road, Hsinchu,
Taiwan - ROC, birdhow@gmail.com

Abstract Details

Title: Planning and Coordination of Scattered Hybrid Renewable Energy Systems
Presenting Author: Kuo-Hao Chang, chang@mx.nthu.edu.tw

Abstract: We propose a two-stage stochastic programming model to characterize the planning and coordination of scattered hybrid renewable energy systems when the power demand and renewable power are both uncertain. We further propose an efficient method to solve the model. Some realistic size instances are created to validate the viability of the proposed method in real settings.

Title: On Deploying Vehicles for Public Electrical Scooter Sharing Systems
Presenting Author: I-Lin Wang, ilinwang@mail.ncku.edu.tw

Abstract: In places of hot or rainy weather that is not biking friendly, electrical scooters may be better vehicles than bikes for a vehicle sharing system. This paper investigates how to deploy electrical scooters in each rental sites, given the estimated origin-destination demands and rates of battery consumption and charging. A mixed integer programming model will be proposed to calculate the optimal fleet deployment, as well as some interesting findings based on our preliminary computational experiments.

Title: The Dynamic Multi-depot Vehicle Routing Problem with Pick-up and Deliveries
Presenting Author: Yiyo Kuo, Ming Chi University of Technology, Industrial Engineering and Management, Tainan 709,
Taiwan - ROC, yiyo@mail.mcut.edu.tw

Abstract: This paper considers the multi-depot vehicle routing problem which deals with two kinds of dynamic request. The first one is repair request which there is an urgent broken product need to be sent from the retail store to a depot for repair. All vehicles can provide the service immediately. The second one is sale request which there is a retail store need a product for sale immediately. The product can be sent from a depot to the store only when the vehicles have returned to depot for up load the product. A heuristic is proposed for solving the problem.

Title: International Journal of Operations Research (IJOR)
Presenting Author: Hsing Luh, NCCU, Dept of Math Science, Nat'l Chengchi Uni, No. 64, Shih Nan Road, Wen-Shan District, Taipei 116, Taiwan - ROC, sluh@nccu.edu.tw

Abstract: : In 2003, the call for papers of first issue of the International Journal of Operations Research (IJOR) was brought out. IJOR reports on developments in Operations Research, Information Systems, and Management Sciences, including the latest research results and applications. Its aim is to meet the needs of accelerating technological change and changes in the global economy. Its abstracting/indexing includes Mathematical Reviews, EBSCOhost, Index of Information Systems Journals, CSA's Technology Research Database, CSA's Engineering Research Database, CSA's Industrial & Manufacturing Engineering Database, Zentralblatt MATH, INSPEC. Until October 2013, it has published about 30 issues. The authors come from more than 30 countries presenting research subjects among academia, government and industries.

Title: On Attaining the National Universities Commission Academic Staff-mix by Rank via Recruitment Policy in n-Step
Presenting Author: Augustine A. Osagiede, University of Benin, Benin City, Nigeria,
Co-Author: Virtue U. Ekhosuehi, University of Benin, Benin City, Nigeria, virtue.ekhosuehi@uniben.edu
Wilfred A. Iguodala, University of Benin, Benin City, Nigeria,

Abstract: We consider the unique specification of academic staff-mix by rank of the National Universities Commission (NUC) for Nigerian universities. We formulate a model consisting of systems of aggregate-fractional flow balance equations within a discrete-time Markov chain framework for each department in a faculty. Then, we iteratively solve the systems of equations using the Gauss-Jordan method.