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教務處

國立交通大學科技管理研究所　函

受文者：暨南國際大學

速別：最速件
密等及解密條件：
發文日期：中華民國九十三年七月廿一日
發文字號：(九三)交大管技字第〇〇六號
附件：如說明二

主旨：為提昇我國學術於演算法方面之國際水準，本所邀請日本早稻田大學玄光男教授來台進行暑期密集講學，惠請協助辦理網路公告事宜並轉知　貴校各系所，請　查照。

說明：

一、玄光男教授此次來台進行密集講學之時間為自九十三年八月十六日至九月二日止。

二、檢附講學公告內容及報名表格乙份。

三、詳細內容煩請參閱本所網站(http://www.mot.nctu.edu.tw/)。

代為決行

副教授兼學生事務處 黃尚

副教授兼組長 許雅惠

組員 宋育姍

擬辦：

一、將來文上傳文件公告系統，公告週知。

二、文陳閱後存。

機關住址：新竹市大學路一〇〇一號
傳真：03-5726749

國立交通大學科技管理研究所

NATIONAL CHIAO TUNG UNIVERSITY COLLEGE OF MANAGEMENT
國立交通大學 管理學院 科技管理研究所
INSTITUTE OF TECHNOLOGY MANAGEMENT

93年7月23日暨收文總字第 0930005903 號

本所訂於93年8月16日至93年9月2日邀請日本早稻田大學資訊系玄光男教授(Professor Mitsuo Gen)進行「進化式演算法與最佳化理論」暑期密集講學。玄光男教授為多目標決策、模糊理論與決策、基因演算法與最佳化等方法論之國際名師(教授個人資料如後所附)。課程內容說明如下：

Class Name	Evolutionary Algorithms and Optimization: Theory and Its Applications
Class Schedule	Aug. 16 - Sept. 2, 2004 Mon-Sat; 10:00-12:00pm
Class Room	交通大學綜合一館 A701
Instructors	曾國雄教授 & 玄光男教授 Phone: (03)5712121 ex 57505; E-mail: ghtzeng@cc.nctu.edu.tw & gen@waseda.jp
Textbook	Mitsuo Gen & Runwei Cheng: *Genetic Algorithms & Engineering Optimization*, John Wiley & Sons, New York 2000
Brief Description	Genetic Algorithm is one of the most powerful and broadly applicable stochastic search and optimization techniques based on principles from evolution theory. The course will cover foundations and basic concepts of Genetic Algorithms as well as applications to various problems, such as Management Science and Engineering (MSE), Operations Research (OR) Problems.
Expanded Description	In the past few years, research on Genetic Algorithms has begun to emphasize optimization problems that arise in industrial engineering and operations research applications. This has generated a fresh body of both research and applications. This class is intended to cover the central aspects of Genetic Algorithms and their applications to difficult-to-solve optimization problems relevant to MSE/OR. Major topics include: Foundation of Genetic Algorithms, Combinatorial Optimization Problems, Multi-objective Optimization Problems, Network Design Problems, Reliability Design Problems, Location-Allocation Problems, Resource Allocation Problems, Multiprocessor Scheduling, Job-Shop Scheduling, Financial Engineering, and so on

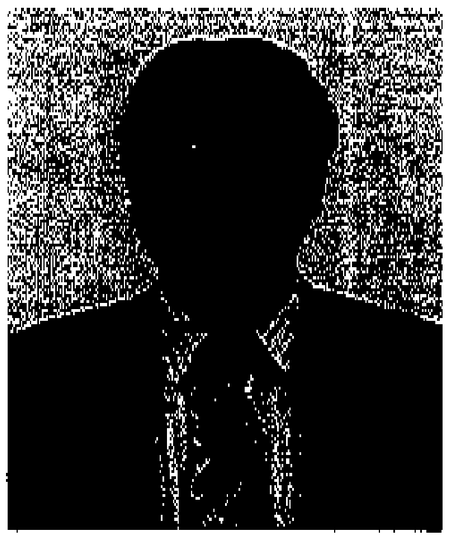
Topics scheduled for the class:

	Date	Contents
1	8/16	Introducing Genetic Algorithms
2	8/17	Constrained Optimization
3	8/18	Combinatorial Optimization
4	8/19	Multi-objective Optimization
5	8/20	Fuzzy Logic & Fuzzy Optimization
6	8/21	Process Planning & Engineering Design
7	8/23	Network Design & Transportation Problems
8	8/24	Minimum Spanning Tree Problems
9	8/25	Local Area Network Design
10	8/26	Location-Allocation Problems
11	8/27	Reliability Optimization & Design
12	8/28	Machine / Facility Layout Design
13	8/30	Machine Schedule. & Multi-Processor Scheduling
14	8/31	Flow-shop Scheduling & Job-shop Scheduling
15	9/1	Cellular Manufacturing Design

*以上時間為暫訂時間。

非常歡迎對此領域有興趣者共襄盛舉，如欲報名，請洽(03)5712121ext.57505 蔡麗敏小姐。

國立交通大學科技管理研究所



Mitsuo GEN (Member) received the Ph.D. degree from the Kogakuin University, Japan in 1974.

He was Lecturer at Ashikaga Institute of Technology, Japan in 1974-1980; Assoc Professor at Ashikaga Institute of Technology, Japan in 1982-1987; Professor at Ashikaga Institute of Technology, Japan in 1987.4-2003.3; He is currently a Professor of Graduate School of Information, Production & Systems, Waseda University. He was Visiting Assoc. Prof. at University of Nebraska Lincoln, USA in 1982-1983; Visiting Prof. at University of California at Berkeley, USA in 1999-2000.

His research interests include Genetic Algorithms, Neural Network, Fuzzy Logic, and the applications of evolutionary techniques to Network Design, Scheduling, System Reliability Design, etc. He has authored ***Genetic Algorithms & Engineering Design***, John Wiley & Sons, New York (1997), ***Genetic Algorithms & Engineering Optimization***, John Wiley & Sons, New York (2000) with Dr. Runwei Cheng, and is an Area Editor: ***International Journal of Computers & Industrial Engineering*** and Co-Editor: ***OR Spectrum***.

玄光男教授講授「進化式演算法與最佳化理論」課程

報名人員基本資料

姓　　名	單　　位	職　　稱
聯絡電話（日）	聯絡電話（夜）	傳　　真
聯絡住址：		
電子信箱：		

報名者請傳真至 03-5726749 蔡麗敏小姐 收

玄光男教授講授「進化式演算法與最佳化理論」課程

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