

**2006 "Herbert Simon 系列講座 " 之十**  
**主題：Two Topographic Maps for Data Visualisation**  
**主講人： Dr. Colin Fyfe**  
**School of Computing**  
**The University of Paisley, UK**

**時間：2006 年 1 月 23 日下午 2:00pm - 4:00pm**

**地點：政治大學綜合院館南棟十樓 271034 室**

**主辦單位：南台科技大學電子系、政治大學社會科學學院、經濟系、暨人工智慧  
經濟學研究中心**

**協辦單位：中華民國人工智慧學會**

各位先進：

"Herbert Simon 系列講座 " 乃為紀念 Herbert Simon 而設。Herbert Simon 為 1975 年電腦科學界中之殊榮 -- 杜林獎 (A. M. Turing Award) - 之得獎人暨 1978 年諾貝爾經濟學獎得主，並於 1993 年因對心理學的終生傑出貢獻而榮獲美國心理學會獎 (American Psychological Association's Award)，他率先於經濟學中建立「有限理性」的概念，並利用電腦演算來了解及測試「有限理性」的行為及決策模式，不但開啓了「行為經濟學」的大門，並為日後跨科際、跨學界的「計算智慧」奠定了先機。

2005 Herbert Simon 系列講座之十一 **Two Topographic Maps for Data Visualisation** 即將於 2006 年 1 月 23 日下午 2:00pm - 4:00pm 在國立政治大學正式舉行，講座將由該領域知名學者 Dr. Colin Fyfe 主講！期待您撥冗參加！

### 內容大綱

We review a new form of self-organizing map which is based on a nonlinear projection of latent points into data space, identical to that performed in the Generative Topographic Mapping (GTM). But whereas the GTM is an extension of a mixture of experts, our new model is an extension of a product of experts. We show visualisation results on some real data sets and compare with the GTM. We then introduce a second mapping based on harmonic averages and show that it too creates a topographic mapping of the data. We compare these mappings on real and artificial data sets.

## 講者簡介

Dr. Colin Fyfe is Personal Professor at School of Computing, the University of Paisley, UK. He is a member of the Academic Advisory Board of the International Computer Science Conventions group and is Chair of the Steering Committee for the conferences Engineering Intelligent Systems. He has acted as Independent Assessor in respect of applications for a Professorship at Coventry University, Northumbria University and for Rice University, USA. He is a Committee member of the EU-funded project, EUNITE - the European Network of Excellence on Intelligent Technologies for Smart Adaptive Systems. He is on the Scientific Panel of Incite, a SHEFC-funded joint venture initiated by the universities of Paisley, Edinburgh and Stirling to facilitate technology transfer. He is on the Steering Committee of the EPSRC-funded "Blind Source Separation and Independent Component Analysis Research Network". He is a member of the WSEAS International Working Group on Data Mining.

For Dr. Colin Fyfe's complete CV, please visit:

<http://cis.paisley.ac.uk/fyfe-ci0/cv.doc>.

## 注意事項

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