



Keele University

Conference on Applied Statistics in Ireland

CASI -1999



Irish Statistical Association

Programme May 26th - May 28th, 1999

Dunadry, Antrim, Northern Ireland

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** Exhibiting at the Conference*

PROGRAMME CASI-1999

Wednesday, May 26th.

11.00 Registration Open

12:30 Lunch

Afternoon Session: *Agricultural & Related Themes*

14:00 Keynote Talk: Statistical & health issues arising from BSE & nvCJD

Dr. Sheila Gore, MRC Biostatistics Unit, Cambridge.

15:00 Reduction in the number of control varieties in distinctness testing.

Sally Watson & Colin Weatherup, QUB

15:25 Tea/Coffee

15:50 Some designs for mixtures of several plant species.

*John Connolly¹, Dieter Ramseier² & Fakhri Bazzaz³,
UCD¹, GI-ETH Switzerland² & Harvard University³*

16:15 The use of sampling theory to estimate discarding from fishing vessels.

Michelle Allen & David Kilpatrick, QUB

16:40 Bayesian prediction with latent growth models for on-line monitoring in cheese manufacture.

Rakhi Baj & Bart Mertens, TCD

17:05 Mapping of indoor radon concentration.

Yudi Pawitan, UCD & Stephen Fennell RPII, Dublin

17:30 Close

19:30 Drinks Reception

20:00 Dinner

Thursday May 27th.

Morning Session: *Medical Statistics*

9:00 Keynote Talk: Tree-based inferences from DNA sequence data

Professor David Balding, University of Reading, CRC Lecturer

9:50 The estimation of the number of deaths attributable to smoking

Don Barry, University of Limerick

10:15 Tea/Coffee

10:40 Numerical state space modelling of binary data

John Belcher, University of Keele

11:05 Fitting multivariate survival distributions to accident data for bus drivers

Gerry Keane CIE, Dublin & Don Barry, University of Limerick

11:30 Practical methods for analysing dependent survival data

John Newell, Glasgow University

11:55 Predicting survival of stroke patients using Bayesian belief networks.

*Adele Marshall, Sally McLean & Mary Shapcott, UUI & Peter Millard,
St. Georges's Hospital, London*

12:20 Survival analysis for longitudinal data?

Gilbert MacKenzie, Keele University

12:45 Lunch

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Thursday May 27th. (Cont'd)

Afternoon Session: *Official Statistics & Data*

14:00 Keynote Talk: Joined-up Government and Joined-up Statistics

Dr. John Fox, Office for National Statistics, UK.

14:50 Statistics & Public Questions

Stephen Haslett, Massey University, NZ

15:15 Tea/Coffee

PARALLEL SESSION A - OFFICIAL

15:40 On Measuring Industry Compliance with Environmental Laws

Richard Bolstein, George Mason University, USA

16:05 How do recruitment and admission affect official estimates of the length of ‘time-to-admission?’

Paul W Armstrong, University of East London

16:30 Social deprivation and the geographical distribution of opiate use in young males in Dublin

Catherine Comiskey, NUI, Maynooth

PARALLEL SESSION B – DATA

15:40 Aggregating uncertain data and imprecise information for data mining

Sally McClean, Brian Scotney, & Mary Shapcott, UUC

16:05 Towards metadata-guided distributed statistical data processing.

R.Pairceir, S. McClean, W. Grossman, KA Froeschal, UUC & U. of Vienna

16:30 Promoting statistical discovery and retrieval using statistical metadata

Y. Bi UUC & Fionn Murtagh, QUB.

16:55 Recent Developments in the Preparation for the 2001 Census in NI.

Robert Beatty & Maire Rodgers, NISRA

19:00 Posters & Guinness

20:15 Conference Dinner

Friday May 28th.

Morning Session: *Methodological & General*

9:00 Keynote Talk: Statistical inference, Likelihood and its variants

Professor Denis Conniffe, ESRI

10:00 Bayes' Theorem is not a case of life or death. It is much more important than that

D. Sprevak, UUI & D. Davison, QUB

10:25 Tea/Coffee

PARALLEL SESSION - A

10:50 Can you randomly generate numbers?

Phil Boland, UCD

11:15 Reconstruction of motion blurred images

Kingshuk Roy Choudhury, UCC

11:40 Reliability growth modelling

John Donovan, IoT, Sligo & Eamonn Murphy, University of Limerick

PARALLEL SESSION - B

10:50 Do oral contraceptives affect the risk of breast cancer?

Victoria Livingstone, University of Limerick

11:15 Practical Issues Around the Data mining processes

Martin Duffy, SAS Institute, Dublin

11:40 Estimation with Poisson Sampling

Jane Horgan, Dublin City University

12:05 Residuals and influence in forecasting

John Haslett, TCD

12:30 Irish Statistical Association Meeting

13:15 Lunch

14:15 Conference Close

PROGRAMME CASI-1999

POSTER SESSION

The standard oral programme slots were heavily over-subscribed this year and the Scientific Committee had a difficult job to present a balanced programme given the distribution of submissions received and the need, in a relatively small conference, to minimise the number of parallel sessions. Accordingly, the fact that a paper is allocated to the Poster Session reflects organisational rather than scientific judgements. The Poster Session is an integral part of the Scientific Programme and a prize will be awarded for the best poster presented at CASI –1999.

1. Interval estimation of effective doses when a Logistic dose-response curve is incorrectly assumed.

Y. X, Huang¹, P. Harris¹, SPJ Kirby², & JC Dearden¹; Liverpool¹ & Pfizer²

2. Estimating class attendance rates: a group project for a course in survey sampling

Richard Bolstein, George Mason University, USA.

3. Fractured Steel - A Bayesian Model

Cathal D. Walsh, Simon P. Wilson, Trinity College Dublin

4. Hierarchical repeated measures modelling of a change-point problem

Jabulani Sithole, Keele University

5. Multi-resolution spatial analysis

*Mitchell Morehart¹, Fionn Murtagh², Jean-Luc Starck³ & Yaxin Bi⁴
ERS, Washington DC¹, QUB², CEA France³, & UUI⁴*

6. Deletion diagnostics for balanced linear mixed models

Dominic Dillane, Dublin Institute of Technology

7. Analysis of multidimensional time series with application to climatology

Jian Huang and Finbarr O'Sullivan, UCC

8. A survival analysis of the progression to treatment for opiate users

Elaine Hand, NUI, Maynooth

& Over ...

9. Applying logistic regression, probits and discriminant analysis to financial distress prediction

Mike Feng-Yu Lin and Sally McClean, UUC

10 Dynamics of meningococcal meningitis in Ireland

Gloria O'Connell, ITT & NUI and Catherine Comiskey, NUI, Maynooth

11. DOE in an SME – the answer to achieving quality leadership?

Christine Simms and John Garvin, UUI



Keele University

&



QUB
