



Information and
Registration Leaflet

20th SGES International Conference

on

Knowledge Based Systems and Applied Artificial Intelligence

11-13 December 2000

Peterhouse College, Cambridge, UK

Technical Keynote Address to be given by
Professor Austin Tate, Artificial Intelligence Applications Institute, University of Edinburgh, UK

Application Keynote Address to be given by
Dr Dan Clancy, NASA, USA

SGES AI Master Class to be presented by
Dr Simon Parsons, University of Liverpool, UK

The conference qualifies for the IEE and BCS CPD Schemes

For further details see <http://www.bcs-sges.org>

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ES2000

INTRODUCTION

ES2000 is the twentieth Annual International Conference of the British Computer Society's Specialist Group on Knowledge Based Systems and Applied Artificial Intelligence (SGES). The two principal aims of the Conference are to review the recent technical advances in Knowledge-based systems technology and to show how this leading edge technology has been applied to solve business problems. To meet these objectives, ES2000 has a number of parallel sessions on both the technology and applications. The programme also includes the UK CBR-SIG Annual Workshop and tutorials on Agent Based Technologies and Data Mining to provide greater depth in these selected topics, and an exhibition of leading AI tool and software providers. We are confident that ES2000 has the widest possible appeal to the industrial, commercial and academic communities throughout Europe.

TWO-DAY CONFERENCE

The papers in both the Technical and Application Streams have been selected through a rigorous process of refereeing. The papers in the Application Track have been chosen to reflect the practical issues of applying the technology to real world problems. The conference includes two invited keynote addresses and the SGES AI Master Class (details below). Papers from both tracks will be published in separate volumes of the conference proceedings by Springer-Verlag – "Research and Development in Intelligent Systems XVII" and "Applications and Innovations in Intelligent Systems VIII."

WHO SHOULD ATTEND?

The Conference is aimed at those who wish to update themselves with news and views of recent developments, understand how other groups are applying the technology and exchange ideas with leading international experts in the field. Our goal, as always, is for ES2000 to be a meeting place for the international knowledge based systems community. The two-track Conference, the Tutorials, Workshop and Exhibition are designed to provide a wide range of options for delegates, whether they are newcomers to the technology or seasoned practitioners. The social programme provides an opportunity to relax, meet old friends and make new contacts.

TUTORIALS & WORKSHOP

ES2000 is supported by a number of tutorials, a workshop and other events, to be held on Monday 11 December:

The 5th UK CBR Workshop

Full day tutorial "Intelligent Virtual Environments and Virtual Agents"

Half day tutorial "Introduction to Data Mining using WEKA"

Half day tutorial "Web Intelligence: goals and challenges"

KEYNOTE ADDRESSES AND SGES MASTER CLASS

TECHNICAL KEYNOTE ADDRESS: "Intelligible AI Planning"

Prof. Austin Tate (Artificial Intelligence Applications Institute, University of Edinburgh)

Planning is about much more than solving specifically stated problems as efficiently as possible. It is also about modelling domains in which planning takes place, understanding the roles of the various human and system agents involved in the planning process and in the domain in which plans are executed, and it is about communicating tasks, plans, intentions and effects between those agents. Prof. Tate's presentation will relate developments in planning and the distinct themes in the field today, while at the same time presenting a combination approach aimed at real use for a range of practical needs.

Austin Tate is Director of the Artificial Intelligence Applications Institute (AIAI) and holds the Personal Chair of Knowledge-Based Systems at the University of Edinburgh. He helped form AIAI in 1984 and was its overall Director through to 1991. He is a Fellow of the Royal Society of Edinburgh.

APPLICATION KEYNOTE ADDRESS: "Model-based Autonomy for System Health Management of a Next Generation Space Shuttle"

Dr Daniel Clancy (NASA, USA)

Space missions have historically relied upon a large ground staff, numbering in the hundreds for complex missions, to maintain routine operations. When an anomaly occurs, this small army of engineers attempts to identify and work around the problem. Flight crew involvement in routine system operations must also be minimized to maximize science return. Similarly, one of the main challenges facing NASA in developing a next generation space shuttle is the reduction in operations cost through advanced health management throughout the lifecycle of the vehicle.

Enter model-based autonomy, which allows complex systems to autonomously maintain operation despite failures or anomalous conditions, contributing to safe, robust, and minimally supervised operation of spacecraft, life support, ISRU and power systems. Autonomous reasoning is central to the approach. In this talk, Dr Clancy will present results from a number of recent activities at NASA Ames using model-based diagnosis techniques for health management and control of deep space missions, advanced life support and next generation space shuttle.

Dr Daniel Clancy is the leader of the Model-based Autonomy group at the NASA Ames Research Center. At NASA, Dr Clancy has been performing research in the development and application of advanced artificial intelligence techniques. Prior to going to NASA, Dr Clancy was very active in the field of qualitative reasoning. He received his Bachelor of Science from Duke University and his Masters and PhD from the University of Texas at Austin.

MASTER CLASS: "Rational Action in Autonomous Agents"

Dr Simon Parsons (University of Liverpool, UK)

The aim of the AI master class is to show how computational agents can be designed that can make effective decisions given only limited computational resources. Dr Parsons will begin by introducing the concept of an autonomous agent as a system capable of independent decision and action in dynamic, unpredictable domains, and show how rational action can be understood through the use of normative theories from economics and decision-theory. In such theories, a rational agent is viewed as one that maximises expected utility. Dr Parsons will then highlight the many difficulties associated with the use of such normative models for actually programming rational agents, and describe the main alternatives to utility maximisation approaches, including Russell's bounded-optimality, decision-theoretic planning, and partially observable Markov decision processes. Finally, Dr Parsons will introduce the belief-desire-intention (BDI) model of agency, as a computational approach to rational decision making.

Dr Simon Parsons is a Reader in the Department of Computer Science at Liverpool University. His current research is into the use of argumentation as a normative approach to decision making, and the adaption of systems of argumentation, which were initially developed for lone intelligent agents, for use in a multi-agent context. In particular, this work has concentrated on the use of argumentation as a mechanism for negotiation. He has written over sixty papers on techniques supporting decision making in intelligent systems, has co-edited two collections on the same subject and has a monograph on the subject in press. Dr Parsons is the editor of the Knowledge Engineering Review, published by Cambridge University Press, and was the recipient of a 1998 Younger Engineers Achievement Medal, awarded by the IEE, for his work in informatics.

TUTORIALS AND WORKSHOP

ES2000 is supported by a range of tutorials and workshops, to be held on Monday 11 December. The workshop presenters are all technical authorities in their own right. Delegates will find these events to be especially valuable where there is a current need to consider the introduction of new AI technologies into their own organisations.

Full Day Tutorial

INTELLIGENT VIRTUAL ENVIRONMENTS AND VIRTUAL AGENTS

*Prof. Ruth Aylett (Centre for Virtual Environments, Univ. of Salford, UK),
Daniel Ballin (Future Technologies Division, BT EXaCT Research, UK)*

Attendees will come away with an understanding of the field of intelligent virtual environments and intelligent virtual agents; what they are and what they're good for. We will review the current state of the art and examine how other disciplines are used in the creation of autonomous life-like virtual characters such as virtual humans. We shall cover the architectural paradigms of behavioural and hierarchical virtual agents and show examples of both. The concept of virtual sensors and how a user fits into a virtual agent system will be explained, as well as the rapidly growing number of applications.

The tutorial is aimed at novices in academia and industry who want to expand their knowledge base about the field of Intelligent Virtual Environments and Intelligent Virtual Agents. It is also targeted at professionals who are involved in evaluating, approving, developing or introducing advanced computer technologies such as IVEs and IVAs to improve their business or work.

The tutorial will be presented in four parts, each building on the other.

- Overview of virtual environments, with real-world examples, and tools to develop them.
- Intelligent virtual environments. What they are and why we need them.
- Agents and virtual agents.
- Virtual agent architectures. As well as their components, issues surrounding them, and case studies.

Half Day Tutorial (am)

INTRODUCTION TO DATA MINING USING WEKA

Dr Mark Hall, Department of Computer Science, University of Waikato, New Zealand

This tutorial will provide an overview of key data mining algorithms and techniques. Demonstrations will be given using the workbench GUI included with WEKA (Waikato Environment for Knowledge Analysis). WEKA is a comprehensive suite of Java class libraries that implement many state-of-the-art machine learning and data mining algorithms. It is freely available, open source software that accompanies the book 'Data Mining: Practical Machine Learning Tools and Techniques with Java Implementations' by Witten and Frank.

Half Day Tutorial (pm)

WEB INTELLIGENCE: GOALS AND CHALLENGES

Dr Sarabjot Singh Anand (Co-founder and CTO, MINEit Software Limited, Belfast, UK)

While traffic to the web sites of online businesses is increasing, revenues remain low. Web Intelligence provides online businesses with the tools to understand the needs of web visitors and to gain intelligence about them. This can lead to a personalised and richer customer experience, increased customer loyalty, and development of an equitable relationship between the business and its customers. Web intelligence tools generally consist of analytical and deployment tools. The core of these analytics is web mining – data mining tools specifically designed to mine through data generated by online businesses. This tutorial will provide a deeper understanding of: what web intelligence is; why there is such a need for it; what data sources are available for the purposes of web mining; what pre-processing is required on this data before visitor centric analysis can be carried out; what tools can be used for mining this data; how business benefits can be measured using business oriented e-metrics; how this knowledge can be deployed; where the main challenges lie.

Full Day Workshop

UKCBR5: THE 5TH UK CBR WORKSHOP

Workshop Chairs: Brian Lees (Department of Computing and Information Systems, University of Paisley), Venky Shankararaman (Department of Computer Science, University of Hertfordshire)

The workshop embraces all aspects of case-based reasoning and its practical applications. Topics include but are not restricted to:

- the theory of CBR
- methods for case adaptation, indexing, retrieval, representation
- hybrid CBR systems
- CBR in data mining and knowledge discovery in databases
- knowledge acquisition, modelling, and management for CBR
- CBR in engineering, design, manufacturing
- CBR and the Internet
- e-Business applications of CBR
- CBR and human learning
- CBR in software engineering
- CBR in healthcare; analogical reasoning

TIMETABLE

TUTORIALS & WORKSHOP

TWO-DAY CONFERENCE

MONDAY, 11 DECEMBER	TUESDAY, 12 DECEMBER	WEDNESDAY, 13 DECEMBER
08.30 Registration	08.30 Registration	08.30 SGES Annual General Meeting
09.30 UK CBR Workshop – and 13.00 Tutorials	09.00 Welcome Plenary Session 09.15 Technical Keynote Address 10.00 Best Refereed Technical Paper 10.45 Refreshments	09.00 Plenary Session 09.15 Application Keynote Address 10.00 Best Refereed Application Paper 10.45 Refreshments
13.00 LUNCH	11.15 Technical Session 1 Application Session 1 Technical Papers Application Papers 12.45 LUNCH	11.15 Technical Session 5 SGES AI Master Class Technical Papers 12.45 LUNCH
14.00 UK CBR Workshop – and 17.30 Tutorials	13.45 Exhibitor Presentations 14.30 Technical Session 2 Application Session 2 Technical Papers Application Papers 16.00 Refreshments	13.45 Exhibitor Presentations 14.30 Technical Session 6 Application Session 3 Technical Papers Application Papers 16.00 Refreshments
18.30 Welcome Reception	16.15 Technical Session 3 Technical Session 4 Technical Paper Parallel Streams 18.15 The Great Debate 19.30 Drinks Reception 20.00 Gala Dinner	16.15 Best Presentation Award 16.30 CLOSE

CONFERENCE CONTENT

TECHNICAL STREAM

TUESDAY, 12 DECEMBER

TECHNICAL KEYNOTE ADDRESS

Intelligible AI Planning

Prof. Austin Tate, Artificial Intelligence Applications Institute, University of Edinburgh

BEST REFEREED TECHNICAL PAPER

A Resource Limited Artificial Immune System for Data Analysis
J. Timmis, University of Kent, Mark Neal, University of Wales, Aberystwyth.

A machine learning algorithm inspired by the natural immune system.

SESSION 1 (LEARNING I)

Experiences with a Weighted Decision Tree Learner

J.G. Cleary, L.E. Trigg, G. Holmes, M. Hall, Dept of Computer Science, University of Waikato, New Zealand

Improving classification performance by combining votes from multiple decision trees

A Case Study of Strategic Induction: the Roman Numerals Data Set

D. McSherry, School of Information and Software Engineering, University of Ulster

A new algorithm for decision tree induction

Selecting Optimal Split-Functions for Large Datasets

K. Stoffel, L.E. Raileanu, University of Neuchatel, Switzerland

An analysis of splitting criteria for decision tree induction

Learning with C4.5 in a Situation Calculus Domain

K. Karimi, H.J. Hamilton, Dept of Computer Science, University of Regina, Canada

Using C4.5 to discover causal rules from temporal data generated in an Artificial Life environment

SESSION 2 (CASE BASED REASONING)

Incremental Footprint-Based Retrieval

B. Smyth, Elizabeth McKenna, Dept of Computer Science, University College Dublin

A new algorithm for case retrieval in case-based reasoning systems

Macro and Micro Applications of Case-Based Reasoning to Feature-Based Product Selection

G. Saward, T. O'Dell, University of Hertfordshire

Examines alternative applications of case-based reasoning to product selection

Formal Concept Analysis as a Support Technique for CBR

B. Diaz-Agudo, P.A. Gonzalez-Calero, University of Madrid

Using Galois lattices and Formal Concept Analysis to support case based reasoning application designers

2D vs 3D Visualisation Techniques for Case-Based Reasoning

E. McKenna, B. Smyth, M. Mullins, Dept of Computer Science, University, College Dublin

An analysis of visualisation methods developed for the CASCADE case-based reasoning shell

SESSION 3 (LEARNING II)

An Instance-Based Approach to Pattern Association Learning with Application to the English Past Tense Verb Domain

R.J. Hickey, R.G. Martin, School of Information and Software Engineering, University of Ulster

An instance based learning algorithm based on example distance and attribute weighting

TECHNICAL STREAM

SESSION 3 (LEARNING II) cont:

Rule Generation Based on Rough Set Theory for Text Classification
Y. Bi, T. Anderson, S. McClean, Faculty of Informatics, University of Ulster at Jordanstown

An algorithm for decision rule generation which deals with vagueness and uncertainty in document classification

Grouping Multivariate Time Series Variables: Applications to Chemical Process and Visual Field Data

A. Tucker, S. Swift, N. Martin, X. Liu, Dept of Computer Science, Birkbeck College, University of London

The use of evolutionary computation techniques to find an approximate solution to a NP-hard problem

Genetic Algorithm Behaviour in the Task of Finding the Multi-Maximum Domain

A. Takahashi, A. Borisov, Technical University of Riga

An examination of the behaviour of genetic algorithms

A Modified Perceptron Algorithm for Computer-Assisted Diagnosis

A. Albrecht, M. Lomes, University of Hertfordshire, K. Steinhöfel, GMD Berlin, M Taupitz, University of Berlin

A new stochastic learning algorithm

SESSION 4 (KNOWLEDGE REPRESENTATION)

Uniform Representation of Content and Structure for Structured Document Retrieval

M. Lalmas, Dept of Computer Science, Queen Mary & Westfield College, University of London

A formal model for representing structured documents by their content and structure

Implementing Metadata on the Web, a Conceptual Approach

G.P. Zarri, CNRS, Paris

A knowledge representation language for representing the semantic content of complex multimedia documents

A Framework for Designing a Decision Support System to Support Discretion

T. Meikle, J. Yearwood, University of Ballarat, Australia

Decision making in the domain of refugee law

Orthofaces for Face Recognition

B. Li, V.P. Siang, School of Computer Science & Information Technology, University of Nottingham

A novel approach to face recognition

WEDNESDAY, 13 DECEMBER

SESSION 5 (KNOWLEDGE ENGINEERING)

Supporting Knowledge-driven Processes in a Multiagent Process Management System

J. Debenham, School of Computing Sciences, University of Technology, Sydney

An approach to the management of knowledge-driven processes

The Y-Link Oriented Technique for Reuse in KBS

K. Messaadia, M. Oussalah, University of Nantes

A reuse methodology for knowledge based systems

Modelling Agents and Communication using Common KADS

J. Kingston, University of Edinburgh

An examination of two of the models from the Common KADS methodology

Designing for Scalability in a Knowledge Fusion System

A. Preece, K. Hui, University of Aberdeen, Alex Gray, Philippe Marti, Cardiff University

Features of the KRAFT architecture designed to support scalability

CONFERENCE CONTENT

TECHNICAL STREAM

SESSION 6 (BELIEF ACQUISITION AND PLANNING)

Acquiring Information from Books

A. Diller, School of Computer Science, University of Birmingham
A model for belief acquisition

Container Stowage Pre-Planning: Using Search to Generate Solutions. A Case Study

I.D. Wilson, P.A. Roach, J.A. Ware, School of Technology, University of Glamorgan

A computer system that generates solutions to the stowage pre-planning problem

A Correct Algorithm for Efficient Planning with Preprocessed Domain Axioms

M. Garagnani, Dept of Computing, The Open University
A polynomial algorithm for preprocessing planning problems

Multi-layered PSMs for Planning

F. Teruel-Alberich, M. Romero-Castro, A. Rodriguez-Rodriguez, University of Las Palmas, Canary Islands

Multi-layered problem solving methods applied to a planning task in the Search and Rescue domain

APPLICATION STREAM

TUESDAY, 12 DECEMBER

SESSION 1 (KNOWLEDGE MANAGEMENT AND KNOWLEDGE ENGINEERING)

Creating Knowledge Structure Maps to Support Explicit Knowledge Management

J.L. Gordon, Applied Knowledge Research Institute, Blackburn College, UK

Provides managers with a way of visualising knowledge resources.

Towards Continuous Knowledge Engineering

K. Schilstra, P. Sprdnck, Knowledge Based Systems Dept., TNO Building and Construction, Netherlands

Presents an alternative approach to knowledge engineering.

Better Knowledge Management through Knowledge Engineering: A Case Study in Drilling Optimisation

A. Preece, Dept. of Computing Science, University of Aberdeen. A. Flett, D. Sleeman, D. Curry, N. Meany, P. Perry.

Uses knowledge engineering techniques to support knowledge management.

An Integrated AI Package for Modelling Applications

W. Dixon, Q. Mehdi, N. Gough, J. Pitchford, School of Computing and Information Technology, University of Wolverhampton
Supports the production of models by naive users of AI software packages.

SESSION 2 (MEDICAL, BUSINESS AND PERSONAL APPLICATIONS)

A Data Mining Approach to the Prediction Of Corporate Failure
M. F.Y. Lin, S. McClean, Faculty of Informatics, University of Ulster at Coleraine

Predicts corporate failure at one year before bankruptcy.

Resolving Deontic Operator Conflicts in Legal Documents

J.T. Sykes, V. Konstantinou, Harrow School of Computer Science, University of Westminster

Resolves inconsistencies and ambiguities in documents – tested on the Data Protection Act.

APPLICATION STREAM

SESSION 2 (MEDICAL, BUSINESS AND PERSONAL APPLICATIONS) cont:

Case-based Induction-tree Analysis in Diagnostic Protocol Development

A. Harvey, A. Devlin, Pinderfields and Pontefract Hospitals NHS Trust, R Johnston, IMS Maxims plc, Dublin

Supports referrals by GPs and diagnosis by junior medical staff.

Smart Radio – Building Music Radio On The Fly

C. Hayes, P. Cunningham, Computer Science Dept, Trinity College Dublin

The development of a network music application at Trinity College Dublin.

WEDNESDAY, 13 DECEMBER

APPLICATION KEYNOTE ADDRESS

"Model-based Autonomy for System Health Management of a Next Generation Space Shuttle"

Dr Daniel Clancy (NASA, USA)

BEST REFEREED APPLICATION PAPER

An Expert System for the Composition of Formal Spanish Poetry
P. Gervas, Universidad Europea - CEES, Madrid, Spain

The system, called ASPERA, composes formal Spanish poetry. In the composition process it combines natural language and case-based reasoning techniques to apply a set of construction heuristics obtained from formal literature on Spanish poetry. The author has used both his experience as an amateur poet and his expertise as an AI researcher to develop this system. It is currently being evaluated by 40 students.

SGES AI MASTER CLASS

Rational Action in Autonomous Agents

Dr Simon Parsons, University of Liverpool, UK

SESSION 3 (ENGINEERING APPLICATIONS)

Towards Integrated Online Support for Field Service Engineers in a Flexible Manufacturing Context

F. Coenen, P. Leng, R. Weaver, W. Zhang, University of Liverpool, UK

Uses model-based, rule-based and case-based reasoning for maintenance and diagnostic support.

The Application of Artificial Neural Networks to Anticipate the Average Journey Time of Traffic in the Vicinity of Merges

M. Fallah-Tafti, Cardiff School of Engineering, The University of Wales

Keeps average journey times of vehicles close to their desired value.

A KBS For Scheduling Structural Maintenance

S. M. C. Peers, University College London

Supports inspection, repairs and maintenance actions for fixed offshore platforms.

Tiger with Model Based Diagnosis: Initial Deployment

R. Milne, C. Nicol, Intelligent Applications Ltd, L Trave-Massuyes, Intelligent Control Systems Group, LAAS-CNRS

Describes recent additions to this gas turbine fault diagnosis system.

.... MORE INFORMATION

AWARDS & SPONSORSHIP

Our thanks to ideadollar.com and Hewlett Packard, who will be sponsoring the prizes for the best submitted application and technical papers. Winners of the best submitted papers have been invited by the Conference Committee to give extended presentations of their papers, at which time they will be presented with their prizes.

A prize will also be presented for the best presentation at the conference. InferMed have kindly agreed to sponsor this prize.

The conference is endorsed by the DTI, EPSRC, British Airways, Springer Verlag, The Applied Knowledge Research Institute, ECCAI and CEPIS. Thanks also to the IEE and Scottish Enterprise for their generous support.

VENUE

Peterhouse College, founded in 1284, and its hall, built between 1286 and 1290, was the first collegiate building in Cambridge. Peterhouse Gardens achieved fame between 1830 and 1930 as the smallest deer park in England, and still provides a peaceful haven (December weather permitting!). Located in the centre of Cambridge, the college combines historic buildings with modern conference facilities, within easy reach of the shopping and entertainment of Cambridge.

THE EXHIBITION

As in previous years we are keen to provide a Conference conference with the widest possible interest and greatest value to the delegates. The suppliers of products and services are essential members of the KBS community in the UK, and the conference programme can only benefit from the demonstrations and hands-on opportunities provided by an Exhibition. A tabletop Exhibition will run alongside the Conference. There will be a limited number of spaces available and potential exhibitors are encouraged to book early. The exhibition package includes:

- Display space (approx 2m²) with table, chairs and power points
- Lunches and refreshments daily

A promotional literature service for the delegates bags is also available.

For further details, contact Richard Ellis (richard.ellis@ideadollar.com).

THE GREAT DEBATE

Which AI Technology will Survive?: A Balloon Debate

Experts representing core AI technologies such as Case Based Reasoning, Constraint Logic Programming, Machine Learning, Model Based Reasoning, Planning and Knowledge Management, will argue that theirs is the core AI technology that should survive long term and 'not be thrown out of the balloon'. This debate will highlight the key strengths and weakness of the core AI technologies. The audience will not only get a good overview of contemporary AI technologies, but get to make the final decision as well!

Organised by Rob Milne, *Intelligent Applications*

WELCOME RECEPTION & GALA DINNER

Delegates are invited to attend a Welcome Reception on the evening of Monday 11th December 2000. The Reception will be held in the exhibition area and will be an ideal opportunity to meet up with old friends and colleagues and make new ones. The Gala Dinner will be held on the evening of Tuesday 12th December and will take place in Peterhouse Hall which is the oldest college building in Cambridge. The Mayor of Cambridge, Councillor Evelyn Knowles will be our guest. The after dinner speaker will be the well known international AI personality Dr Rick Magaldi.

ACCOMMODATION

The conference has booked student bedrooms (shared facilities) at Peterhouse College. These can be booked using the registration form and will be allocated on a first come, first served basis. A list of alternative accommodation is available from the Conference Secretariat. (contact details opposite).

PARKING

There are no parking facilities available for delegates at Peterhouse, however a multi-storey car park is situated close by (300m) cost is in the region of £15 per day. Delegates should note that Cambridge is not a "car friendly" city – delegates are therefore advised to travel by train.

SGES/ECCAI MEMBERSHIP DISCOUNTS

Paid up members of SGES as at 12 November 2000 are entitled to register for ES2000 at a reduced rate.

Paid up members of other ECCAI societies as at 12 November 2000 may register for ES2000 at the SGES members' rate. Evidence of membership should be sent with the registration form.

Those paying the non-members' rate for attendance at the Full or Two Day conference will be given a year's free membership of SGES ending on December 31st 2001 and will thus qualify for the members' rate for ES2001.

ES2000 DISCOUNT RATES FOR STUDENTS AND EMPLOYEES OF SMEs

The DTI, in consultation with SGES, has agreed to sponsor a limited number of places for students and employees of UK SMEs. The Conference Committee is therefore pleased to be able to offer special discounted SME (£245) and Student (£50) rates for the 2 day conference. (Note that the Gala Dinner and Proceedings are excluded from the Discounted Student Rate, but lunches and refreshments are included. Proceedings and Gala Dinner tickets can be purchased separately.) These special discount rates are available on application, and are only available for a limited number of places. Special group discounts and day delegate rates may also be available. Contact the Conference Secretariat for further details (see opposite).

CANCELLATIONS

Fees will be refunded in full for cancellations received at least six weeks prior to the event. Cancellations received more than 28 days and less than six weeks prior to the event will attract a 20% administration charge. No refund will be made for cancellations received less than 28 days prior to the event. However substitutions may be made at any time.

PROCEEDINGS

The proceedings will be published by Springer-Verlag. A limited number of copies will be available for purchase by non-delegates once the Conference has closed.

SPRINGER JOURNALS

Springer-Verlag are offering special reduced annual subscription rates (for the year 2001) to ES2000 delegates for the journals: Pattern Analysis and Applications (£34), Neural Computing and Applications (£43), and Knowledge and Information Systems (£34). Further information on these journals and related book titles can be found at <http://www.springer.co.uk>.

ES2000 Conference Committee

Dr Frans Coenen (Conference Chairman)	University of Liverpool
Dr Robert Milne (Deputy Conference Chairman – Finance)	Intelligent Applications Ltd
Mr Richard Ellis (Deputy Conference Chairman – Exhibition)	ideadollar.com
Mrs Ann Macintosh (Application Programme Chair)	Napier University
Mr Mike Moulton (Deputy Application Programme Chair)	University of Portsmouth
Professor Max Bramer (Technical Programme Chair)	University of Portsmouth
Dr Alun Preece (Deputy Technical Programme Chair)	University of Aberdeen
Dr Adrian Hopgood (Tutorial and Workshop Organiser)	The Open University

Method of Payment

FULL PAYMENT OF THE REGISTRATION FEE MUST ACCOMPANY REGISTRATION FORM

Please submit one form for each delegate. Photocopies of a blank form may be used.

- **Cheques** should be made payable to SGES and drawn in sterling on a UK bank.
- **Bank transfers** in sterling should be paid to their account at:
Lloyds Bank, Langham Place
324-326 Regent Street, London W1R 5AA
Bank Sort Code 30-94-87 Account no : 0324703
NB There is an additional charge of £10 for overseas sterling bank transfers

- **Sterling Bank Drafts** should be used by delegates wishing to attend from countries with currency restrictions.
- **Visa / Mastercard** – please provide card details in the space provided.

Please quote **ES2000** and the **name of the delegate and company** on all transactions.

THE REGISTRATION FORM IS AN INVOICE AND WILL BE RETURNED TO YOU AS AN OFFICIAL VAT RECEIPTED INVOICE WHEN PAYMENT HAS BEEN RECEIVED AND THE DELEGATE NUMBER ALLOCATED. NO OTHER FORM OF INVOICE WILL BE ISSUED.



Conference Invoice and Registration Form

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ES2000

Cambridge, UK : 11-13 December 2000

Return to: Maria Doran
Conference Secretariat ES2000
Department of Computer Science
The University of Liverpool
Chadwick Building
Peach Street
Liverpool L69 7ZF, UK

Tel: +44 (0)151 794 6793
Fax: +44 (0)151 794 6703
Email: sges-conference@bcs.org.uk

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On receipt of payment your form will be numbered, stamped and returned as confirmation of your place at the Conference.

Note: This will become a formal paid VAT invoice only when a delegate number has been assigned.

PLEASE COMPLETE BOTH SIDES OF THIS FORM

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The SGES is one of Europe's longest established groups working to support the community of artificial intelligence developers and users. In addition to the Annual Conference, membership of the SGES provides access to a wealth of technical information, including monthly information packs, workshops, local events, special interest groups and more.

You do not need to be a member of the British Computer Society to join the SGES.

Details of membership benefits can be obtained from:
<http://www.bcs-sges.org> or sges-membership@bcs.org.uk

Enquiries should be addressed to Maria Doran

Conference Secretariat ES2000
 Department of Computer Science
 The University of Liverpool
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Tel: +44 (0)151 794 6793
 Fax: +44 (0)151 794 6703
 Email: sges-conference@bcs.org.uk

ES2000 Conference Invoice and Registration Form

PAYMENT MUST ACCOMPANY THIS FORM

For each of the following options please tick your status/choice and complete the amount due column only. VAT is charged at 17.5%.	COST	AMOUNT DUE	FOR OFFICE USE ONLY
Two Day Conference Fee on or before 12 November 2000			
<input type="checkbox"/> Non-Member	£395		
<input type="checkbox"/> SGES/ECCA1 Member	£325		
<input type="checkbox"/> Discounted Rate for Employees of UK SMEs (see note below)	£245		
<input type="checkbox"/> Student Rate (see note below)	£50		
Payment received after 12 November 2000			
<input type="checkbox"/> Late payment penalty	£60		
5th UK CBR Workshop (Monday 11 December)			
<input type="checkbox"/> If also attending ES2000	£50		
<input type="checkbox"/> If attending Workshop only	£80		
<input type="checkbox"/> UK CBR Workshop Student Rate	£50		
Additional Options for Monday 11 December			
<input type="checkbox"/> Full Day Tutorial: "Intelligent Virtual Environments and Virtual Agents"	£125		
<input type="checkbox"/> Half Day Tutorial: "Introduction to Data Mining using WEKA"	£80		
<input type="checkbox"/> Half Day Tutorial: "Web Intelligence: Goals and Challenges"	£80		
To Exhibit			
<input type="checkbox"/> Non-Members	£600		
<input type="checkbox"/> SGES Corporate Members	£500		
Promotional Literature Service (for "delegate bags")	£100		
Gala Dinner: I require additional ticket(s)	£30 each		
Additional Sets of Proceedings (2 books): I require additional copies	£99 per set		
Springer Publications: Year's subscription at special ES2000 delegate's rate to:			
– Neural Computing & Applications	£43		
– Pattern Analysis & Applications	£34		
– Knowledge & Information Systems	£34		
Accommodation: Use of student accommodation at Peterhouse College – <i>Please tick for appropriate nights:</i> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> December 2000	£35 per night		
Special dietary requirements (vegetarian etc.):			
	SUB-TOTAL	£	
	VAT @ 17.5%	£	
	TOTAL PAYABLE	£	

NOTES:

- Full Conference Fee includes: Two Day conference (12/13 December), ES2000 proceedings, lunch and refreshments daily, invitation to Welcome Reception, one ticket to the Gala Dinner.
- DTI sponsored places for employees of UK SMEs are strictly limited, and will be considered on a case by case basis by the Committee.
- Student Rates are available to bona fide, non-presenting, research students, and DO NOT include proceedings or the Gala Dinner.
- Paid up members of SGES as at 12 November 2000 are entitled to register for ES2000 at a reduced rate.
- Paid up members of other ECCAI societies as at 12 November 2000 may register for ES2000 at the SGES members' rate. Evidence of membership should be sent with the registration form.
- Those paying the non-members' rate for attendance at the Full or Two Day conference will be given a year's free membership of SGES ending on December 31, 2001 and will thus qualify for the members' rate for ES2001.

PLEASE COMPLETE BOTH SIDES OF THIS FORM