



Diagrams 2000: An International conference on the theory and application of diagrams **University of Edinburgh, September 1-3, 2000**

Diagrams 2000 is the first event in a new interdisciplinary conference series on the Theory and Application of Diagrams.

Driven by the pervasiveness of diagrams in human communication and by the increasing availability of graphical environments in computerised work, the study of diagrammatic notations is emerging as a research field in its own right. This development has simultaneously taken place in several scientific disciplines, including, amongst others: cognitive science, artificial intelligence and computer science. Consequently, a number of different workshop series on this topic have successfully been organised during the last few years: Thinking with Diagrams, Theory of Visual Languages, Reasoning with Diagrammatic Representations, and Formalizing Reasoning with Visual and Diagrammatic Representations.

Diagrams are simultaneously complex cognitive phenomena and sophisticated computational artifacts. So, to be successful and relevant the study of diagrams must as a whole be interdisciplinary in nature. Thus, the workshop series mentioned above have decided to merge into Diagrams 2000, as the single interdisciplinary conference for this exciting new field. Diagrams 2000 provides a forum with sufficient breadth of scope to encompass researchers from all academic areas who are studying the nature of diagrammatic representations and their use by humans and in machines. It is intended to become the premier international conference series in this field and will attract participants from applied linguistics, architecture, artificial intelligence, cognitive science, computer science, education, graphic design, history of science, human-computer interaction, philosophical logic, psychology and others.

The conference will consist of technical sessions with presentations of refereed papers and tutorials which are intended to bridge the gap between the various disciplines and foster the development of a common language.

Some examples of the broad topics and issues that papers might cover are:

- psychological/educational investigations of how people reason or learn with diagrams;
- computational reasoning with and interpretation of diagrams;
- usability issues concerning diagrams;
- classification and formalization of abstract properties of diagrams;
- descriptions of particular diagramming notations and their use.

We invite submissions of research papers that focus primarily on diagrams or diagram use by human or computer. Other than this, there are no particular restrictions on the field of study or the specific topics of the papers. The papers will be peer reviewed. It is planned to publish the proceedings as a volume in the Springer series Lecture Notes in Artificial Intelligence.

Appropriate research methodologies and approaches include, amongst others: experimental investigation; rigorous empirical observation and analysis; computational modelling of the processes of reasoning with diagrams; implementation of systems deploying diagrams; knowledge accumulated from reflection on extensive practice; analysis of a particular diagramming notation; mathematical proofs of complexity and expressiveness of classes of diagrams.

For further information and details of electronic submission of papers see the conference web site:

<http://www-cs.hartford.edu/~d2k/>

Program Chairs: Michael Anderson, University of Hartford (USA); Peter Cheng, University of Nottingham (UK); Volker Haarslev, University of Hamburg (Germany).

Program Committee: Tom Addis, Gerard Allwein, Nigel Birch (EPSRC), Alan Blackwell (WWW organization), Jo Calder (Local organization), B. Chandrasekaran, Maria Francesca Costabile, Gennaro Costagliola, Max Egenhofer, George Furnas, Janice Glasgow, David Gooding, Mark D. Gross, Corin Gurr (Local organization), Pat Hayes, Mary Hegarty, Mateja Jamnik, Stefano Levialdi, Robert Lindsay, Ric Lowe, Kim Marriott, Bernd Meyer (Publicity organization), N. Hari Narayanan, Patrick Olivier, David Barker-Plummer, Clive Richards, Eric Saund, Barbara Tversky.

Important deadlines:

March 13, 2000:	submission of papers due	May 8, 2000:	notification of authors
June 2, 2000:	CRC of accepted papers due	July 31, 2000:	end of early registration
September 1-3, 2000:	conference in Edinburgh		