

**Call for Participation in a mini-workshop at AHM2005 on
e-Science and Data Mining
organized by the e-Science Data Mining Special Interest Group**

www.allhands.org.uk

Background and Motivation

One of the principal motivations for the UK e-Science programme is the data avalanche being experienced in many scientific disciplines. Data mining techniques offer a way to extract scientific knowledge from the data avalanche, and common challenges face those trying to apply data mining techniques in an e-Science context¹.

The **e-Science Data Mining Special Interest Group** (*esdm-sig*) exists to provide a forum for discussion amongst all those within the UK e-Science community involved in data mining – from the computer science researchers designing the data mining algorithms, to the software engineers developing the computational infrastructure within which they will run, to the applications researchers who will use them to do their science.

The *esdm-sig* was launched at a well-attended mini-workshop during AHM2004, and has since held a successful workshop at NeSC², which attracted participants from the US, Australia and Europe, as well as many disciplines within the UK e-Science community.

AHM2005 Mini-Workshop

The *esdm-sig* will host a mini-workshop at AHM2005, which will be open to all members of the UK e-Science community interested in the application of data mining techniques within an e-Science context. Meetings of the *esdm-sig* to date have shown how data mining applications illustrate many of the generic e-Science problems – e.g. data integration, trust and security, workflow, service composition and interoperability – and this mini-workshop will be of interest to all those involved in e-Science data mining: computer scientists, software engineers and applications scientists.

Mini-Workshop Presentations

The mini-workshop will comprise a brief summary of the *esdm-sig*'s activities, followed by contributed presentations, which are invited from members of the community engaged in any aspect of data mining within e-Science. Papers not selected for oral presentation by the AHM2005 Programme Committee may be presented as posters. Full details of the submission process can be found at the AHM2005 WWW site – www.allhands.org.uk. Informal enquiries about the mini-workshop and the work of the *esdm-sig* may be directed to the SIG convenor and mini-workshop chair, Bob Mann (rgm@roe.ac.uk).

¹ These were first identified at the *Scientific Data Mining, Integration and Visualization* (SDMIV) workshop held at NeSC in 2002 (see <http://www.nesc.ac.uk/talks/sdmiv/report.pdf> for the workshop report) and have since been updated and expanded during the *Review of Data Mining in UK e-Science* being conducted by the *esdm-sig*.

² “e-Science and Data Mining” workshop at NeSC: see <http://www.nesc.ac.uk/esi/events/483/>