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# Intelligent Data Engineering and Automated Learning – IDEAL 2008

9th International Conference  
Daejeon, South Korea, November 2-5, 2008  
Proceedings

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# Preface

IDEAL 2008 was the ninth IDEAL conference to take place; earlier editions were held in Hong Kong, the UK, Australia and Spain. This was the first time, though hopefully not the last time, that it took place in Daejeon, South Korea, during November 2–5, 2008.

As the name suggests, the conference attracts researchers who are involved in either data engineering or learning or, increasingly, both. The former topic involves such aspects as data mining (or intelligent knowledge discovery from databases), information retrieval systems, data warehousing, speech/image/video processing, and multi-media data analysis. There has been a traditional strand of data engineering at IDEAL conferences which has been based on financial data management such as fraud detection, portfolio analysis, prediction and so on. This has more recently been joined by a strand devoted to bioinformatics, particularly neuroinformatics and gene expression analysis.

Learning is the other major topic for these conferences and this is addressed by researchers in artificial neural networks, machine learning, evolutionary algorithms, artificial immune systems, ant algorithms, probabilistic modelling, fuzzy systems and agent modelling. The core of all these algorithms is adaptation.

This ninth IDEAL was held in the famous Korea Advanced Institute of Science and Technology (KAIST), in Daejeon, Korea. KAIST is located in Daedeok Science Town, home to more than 60 government-supported and private research institutes, 4 universities, and numerous venture businesses. The Science Town is situated in the northern part of Daejeon, which has a population of over 1.3 million citizens and is obviously an ideal venue for a conference like IDEAL.

The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the Program Committee for their hard work in the reviewing process. This process is essential to the creation of a conference of high standard and the IDEAL conference would not exist without their help.

August 2008

Colin Fyfe  
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Soo-Young Lee  
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