Editorial

Brian Nolan

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I am delighted to introduce the fifth edition of the ITB Journal, the academic journal of the Institute of Technology Blanchardstown. The aim and purpose of the journal is to provide a forum whereby the members of ITB, visitors and guest contributors from other third level colleges can publish an article on their research in a multidisciplinary journal. The hope is that by offering the chance to bring their work out of their specialised area into a wider forum, they will share their work with the broader community at ITB and other academic institutions.

In this issue, we have papes on a wide range of topics. In their paper on Virtual Credit Card Processing System, G. Gray, K. Church, and T. Ayres, of ITB explore virtual techniques for safeguarding online financial transactions. The JAM Suite paper from B. Nolan, M. Cummins, I. Flanagan, and N. O'Brien of ITB discusses the development in Java of software that delivers a voice-enabled network-based virtual band application. GlobalCom from D. Barber, C. Gildea, and G. Byrne of ITB shows how an enterprise can communicate with its employees through the use of a unified messaging system. In Learning Through Dialogue (LTD) M. Smith, J. Cook and M.Oliver of ITB, London Metropolitan University, and University College London discuss a toolkit to support the process of planning for effective use of dialogue in learning. The paper from S. Sheridan of ITB provides a Java framework for using and processing computer vision. In their paper Longer Than A Telephone Wire, C. Reynolds, M. Smith, and M. Woodman of Middlesex University and ITB discuss how the new technology of voice firewalls can be used to counter ubiquitous lie detection. The deployment of an XML framework for structured data exchange between medical devices is the topic of the paper from U. Neuhaus, P.Walsh. and K. Wente from Cork Institute of Technology and Fachhochschule Darmstadt. B. Nolan from ITB discusses issues relating to Lexical Semantics and Patterns of Causation in his paper. G. Gray, K. O'Connor of ITB examine the technology infrastructure required for the deployment of Web Services. Extending physical simulation to the audio domain for enhanced realism in game engines is the subject of the paper by G. McCann, and H. McCabe of ITB. R. Gallery, and D. M. Shakya of ITB discuss hardware and software codesign for multimedia capable portable devices using SystemC in their paper.   D. Barber and A. Keane of ITB discuss issue relating to Unified Messaging Systems: An Evolutionary Overview. The paper from Karen Church of ITB, "Searching ……", won the Higher Education and Training Awards Council Prize for Computing in December 2002.

We hope that you enjoy the papers in this issue of the ITB Journal.

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