Foreword by the General Chairman

The present world is confronted to a crucial mutation: leaving a period based on material and energy to a new period based on information and communication. This evolution leads to profoundly transform the economical approach and the social organization, moving from a rigid and hierarchical approach inspired by physical laws to dynamic networks inspired from the biological world. Associated to the huge increasing of computer power and storage capabilities and databases, the availability of vast and fast networks and of communication and computing capabilities over these networks is the base of this evolution.

The 4th International Symposium on Parallel and Distributed Computing (ISPDC’2005) brings together active practitioners and researchers in the field of parallel computing distributed over networks. This year's ISPDC gives special attention to Cluster, Grid and mobile computing technologies as they are rapidly developing and lead to new high performance computing capabilities through the sharing of distributed resources.

This meeting was held in the University of Science and Technology of Lille, France from 4th to 6th July 2005. A distinguished international panel of reviewers has examined numerous scientific papers from all over the world and has selected 40 papers (selection rate of about 50 %). The authors came from countries from all over the world and presentations were followed by high level stimulating discussions. In addition to these scientific presentations, two invited world known speakers Ian Foster and Enrique Alba have presented some aspects of the present evolution of researches respectively, in the fields of Grid Computing and Parallel Optimization, and the Grid activity in the European Union has been presented by high level European directors.

I would like to thank all the actors who made this symposium so interesting: all the authors who have submitted their work to ISPDC’05, the Program Committee members for their efforts in promoting the symposium and reviewing the proposed papers, the Steering Committee for its work in building the main topics of the conference, the members of the Organizing Committee and particularly Dr Richard Olejnik, who had the heavy task to drive and organize this conference and made this meeting really friendly. Finally I would like to thank all the sponsors which bring us a financial support for the success of this meeting, particularly IBM France, France Telecom, The Region Nord-Pas de Calais, INRIA (The Institut National de Recherche en Informatique et Automatique) and the Presidency of the University of Science and Technology of Lille.

Prof. Bernard Toursel
General Chairman