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Cooperative Design, Visualization, and Engineering

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Preface

This year the CDVE conference celebrated its fourth annual event in an exciting city—Shanghai, China. The cooperative design, visualization and engineering community sensed the economic pulse of a new giant economy where cooperation is vital for its success.

This year we received a large number of papers from all over the world. In addition to many submissions from Europe, we received more papers from Asia and China this time. Many authors from key Chinese research centers and national projects presented their papers, which gave us insight into the progress of research and development in this giant economy.

From a technical point of view, as a major trend in cooperative design, visualization, engineering and other applications, advanced Web-based cooperation technology stands out by itself. Many papers reflect the research in this aspect with very convincing results.

Web-based cooperative working applications have been emerging strongly since the wide availability and accessibility of the WWW. It is a form of sharing and collaborating by its nature. It is suitable for the cooperation of a much wider range of users.

In the field of cooperative engineering, new findings and new results were presented. Among all, work flow technology was recognized as a key element for successful cooperative engineering. According to these new findings, only Web-based cooperation tools and shared databases are not enough for cooperative engineering. Workflow-based methodology should be introduced to guarantee the integration and coordination of the whole life cycle process of products.

This year we had many papers concerning other aspects of cooperative applications. Knowledge management for cooperative work, grid and distributed architecture etc. were some of them. To give users an "anytime, anywhere" cooperation possibility was also one of the areas of focus. Multiple platform applications are developed that use all possible communication networks, including interactive digital TV, mobile phones and mobile devices etc.

I would like thank all the authors who submitted their papers to the CDVE2007 conference. It is their enthusiasm and hard work that made this conference unique. I would also like to express my thanks to our Program Committee, our Organizing Committee for reviewing the papers and doing conference organization work on top of their very heavy daily workloads. I would like to express my special thanks to many volunteer experts for reviewing our papers and providing a great help to raise the quality of the papers of this conference.

This conference aims to promote technologies for cooperation. I believe all of our efforts will contribute to the research and development of this field very positively, and to a better cooperation and mutual understanding in our international community.

September 2007 Yuhua Luo

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