

Proceedings of the Second International Symposium on  
**Knowledge Management for Strategic Creation  
of Technology**

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## Preface

Arrival of knowledge society was predicted fairly before. In order to realize such a society, the establish of a discipline which promotes integration, management, and creation of knowledge is a pressing subject. Research on knowledge management in business administration or information engineering is being done actively. But, to understand and manage the complex, dynamic knowledge society, an overall viewpoint is required. Therefore, the systems science, which is a discipline that has such a viewpoint, solves the relation between individuals and the whole, and searches for suitable policies, must play a very big role in the coming knowledge society.

The main topics of the first world congress of the international federation of systems research (IFSR2005) is the new direction and influence of the systems science on an emerging knowledge and the repercussions of the knowledge management on systems sciences. Symposiums are organized for concrete research topics which include knowledge management, technology management, information technology, etc. to search for the way to sustainable development that is an urgent subject common to human beings. About 200 scientists from about 30 countries gathered together in Kobe and presented their latest research results and discussed on the main topic of the congress in the plenary session, parallel sessions as well as symposiums.

Japan Advanced Institute of Science and Technology organized three symposiums in this congress: Technology Creation Based on Knowledge Science, Data/Text Mining from Large Databases, and Vision of Knowledge Civilization. We name these symposiums the second international symposium on knowledge management for strategic creation of technology, and this proceedings includes selected papers presented at these symposiums. JAIST has started a research program "Technology Creation Based on Knowledge Science: Theory and Practice" as one of the center of excellence programs (21<sup>st</sup> century COE programs) supported by Ministry of Education, Culture, Sports, Science and Technology, Japan. This proceedings introduces the activities of the COE program.

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