

Tuesday November 15

International Conference Room

09:30- Opening Ceremony Address

Yoshiteru Nakamori

Welcome Address

Jifa Gu, Gerhard Chroust

10:00-11:00 Keynote Speech 1

KS-1 The Third Basic Program for Science and Technology - Science and Technology Policy in Japan

Koji Omi

Member of the House of Representatives, Japan

11:30-12:30 Keynote Speech 2

KS-2 The Second Scientific Revolution in Capital Letters - Informatic Turn -

Tamito Yoshida

Member of the Japan Academy and Professor Emeritus of Tokyo University, Japan

Room 401

14:00-15:30 Symposium 1 Technology Creation Based on Knowledge Science

Session 1

JAIST COE Program(1)

Chair: Toshiya Kobayashi

S1-1-1 The Meaning of JAIST-COE Program and The Changing Circumstances of Academic Research in JAPAN

Saburo Ogata

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Session 2

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14:00-15:30 Symposium 4 Meta-synthesis and Complex Systems
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Wednesday November 16

Room 401

9:00-10:30 Symposium 1 Technology Creation Based on Knowledge Science
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Thursday November 17

Room 401

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- S3-7-3 Malaysian License Plate Recognition Using Artificial Neural Networks and
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- S3-7-4 Integration of Multi-objective Genetic Algorithms and Expert Systems for
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- S3-2-7 A proposal of Alarm Sound Recognition System for the Medical Instrument
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- S3-8-2 Potentiality Evaluation for Revegetation of Abandoned Lands from Coal
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- S3-8-3 Ensemble Learning with Neural Networks for Classifying Environmental
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9:00-10:30 **Symposium 6** **Vision of Knowledge Civilization**
Session 7 **Teaching and Knowledge**

Chair: Zhichang Zhu

- S6-7-1 E-Teaching - the Lost Lead-Time
Gerhard Chroust **420**
- S6-7-2 Common Representations of Soft and Hard Declarative Knowledge
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- S6-8-2 Network Structures in a Society Composed of Individuals with Utilities
Depending on their reputation
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Session 8 Objectivity and Networks

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- S6-8-1 An Objective-Subjective Structure to Assist Decision Making: An Application to Environmental Issues
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- S6-8-4 From Knowledge to Innovation Society
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Closing Discussion

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Session 3 Requisite Holism by Modeling

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- WS-3-1 System Dynamics Market Model with Aspects of Economic Policy
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- WS-3-2 Knowledge, Corporate Governance & HR - A Systemic Approach
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- WS-3-3 Standardization of Decision-Making between Holism and Variety
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11:00-12:06 Workshop The New Roles of Systems Sciences for a Knowledge-based Society
Session 4 Culture, Language and Creative Co-operation

Chair: Stanislava Mildeova

- WS-4-1 The Role of Language within Knowledge Creation Processes
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- WS-4-2 Innovation and Creativity from the Viewpoint of Systems Thinking and Chaos Theory
Gerald Steiner **503**
- WS-4-3 Europe from a point of view of economic-cultural orientations
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International Conference Room

14:00-15:00 Keynote Speech 3

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- KS-3 On the Future Role of Environmental Systems Analysis
Leen Hordijk **29**
International Institute for Applied Systems Analysis, Austria

15:00-16:30 Panel Discussion

Chair: Kyoichi Kijima

Panel Members Andrzej Wierzbicki, Jifa Gu, Gerhard Chroust, Debora Hammond, Matjaz Mulej, Leen Hordijk

- Kick-off speech Integrated Systems Thinking
PD-1 Kyoichi Kijima
- PD-2 Lack of Systemic Thinking and Innovation; Case of Slovenia - A Transitional Country
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16:30-17:00 Student Award Presentation Ceremony

Address: Gerhard Chroust
Presented By: Jifa Gu

17:00-17:30 Closing Ceremony

Closing Address: Gerhard Chroust