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THE INSTITUTE FOR CONFLICT MANAGEMENT AND PEACE DEVELOPMENT

EXECUTIVE SUMMARY

The Institute for Conflict Management and Peace Development will be a major organizational component of the University for Peace, collaboratively designed and developed with the International Systems Institute. Its purpose is to facilitate the learning and practice of conflict management and peace development on a scale from local to global.

The Institute is being designed as a global based learning system, including a coordinating center at the University's headquarters in Costa Rica and an international network of educational institutions/agencies and research organizations.

As a learning system, the Institute will offer a set of complementary programs whose objectives are to:

- nurture global consciousness
 - systems thinking and practice
 - creative and nonviolent conflict management
 - peace development
- facilitate the participative design and implementation
 of peace development systems.

These programs will address a range of social contexts, from the family, youth and community, to the organizational, interorganizational, and international levels. Program functions include participative design, cooperative learning, capacity and capability building, and information dissemination. In combination, the Institute's programs will provide the necessary elements for an integrative learning and action system for peace development.

An interdisciplinary staff of the Institute, along with members of the International Systems Institute, will facilitate the participative design and development of programs in various cultural and social settings. The aim is to empower representatives of the Institute's network of educational systems, and future learners/clients, to collaboratively design, implement and manage a program appropriate to their specific context. The global range of beneficiaries will include:

- The Institute's network
- Youth and families
- Community and marginal groups
- Students in formal educational settings
- Personnel of human activity systems from local to global

RATIONALE

Differences of values, assumptions, beliefs and purposes are inherent and inevitable among human beings and their systems. Given our present limited level of consciousness as a species, which includes individualism, competitions, materialism and hierarchism, conflict over differences is a habitual process of social interaction.

As we approach the end of the 20th century, conflict situations are increasing in complexity, persistence and potential for violence at all levels of our interconnected social systems. However our social awareness, adaptive behavior, and ability to creatively manage conflict situations, remains underdeveloped. While threat, coercion and violence are devisive and life-destructive, many existing processes and arrangements to resolve conflicts peacefully are reactive, reductionistic and ineffective. Individuals and social systems, worldwide, lack awareness and competences in wholistic approaches to integrating differences, building cooperation, and designing peace development systems.

Systems inquiry, guided by global consciousness and wholistic thinking, has demonstrated the capability of effectively managing complex and large-scale problem situations. Peace development competences, emphasizing systems thinking, nonviolence, participative design and consensus-building can be learned and applied at all levels of human activity systems.

A global based learning system for conflict management and peace development can contribute greatly to the improvement of our evolving human condition. The establishment of interorganizational arrangements, across cultures, is required for sharing educational resources and facilitating learning at all levels of society. The University for Peace provides the institutional and international context for such a global based education system. An Institute for Conflict Management and Peace Development, an educational arm of this University, will serve as the vehicle for peace development learning.

PROGRAMS

Family Peace Development

The purpose of this program is to explore and promote various cultural approaches to maintaining and enhan-

cing creative and purposeful evolutionary relations in family systems.

Young Peacemakers Program

This program aims to facilitate the participative design, development and implementation of culturally appropriate programs to educate youth in managing conflicts, cooperating within groups, and sharing leadership.

Community Peace Development

This program aims to facilitate the establishment of a global network of community programs for acquiring competence in participative, just and peaceful community development.

Conflict Management Proficiency

Directed towards students in educational settings, organizational practitioners, and professionals worldwide, this learning program will aim at producing competent researchers, educators and practitioners in conflict management, cooperating building, and the design of peace development systems.

Collaborative Problem Management for Organizations

Technical assistance programs will be individually tailored for various organizations to build capacities and capabilities in problem management and interorganizational collaboration.

Alternative Systems for Peace Development

This program aims to design and develop alternative, international systems for conflict management, cooperation building and peace development.

ORGANIZATION

A Consortium Effort

The development of the Institute is cooperatively guided by the University for Peace and the International Systems Institute.

The University for Peace, with headquarters in Costa Rica, is an international organization of the higher education system of the United Nations. It was created in 1980 by the U.N. General Assembly for the purpose of research, education and information dissemination relevant to peace and justice.

The International Systems Institute engages in research, development and technical assistance programs – international in scope – that aim to advance the application of systems science and the development of systems education programs. Its broader purpose is to explore what systems science can do to address global issues, nurture global consciousness, facilitate peace development, and in general, improve the human condition.

Personnel

Staffing and guidance of the Institute will include the following components:

- An interdisciplinary, coordinating staff at the Institute's headquarters and international field offices
- The staff of the International Systems Institute
- An International Advisory Board of practitioners and researchers in the various areas of peace development
- Representatives of the Institute's network of educational institutions and agencies
- Visiting educators and student interns
- International volunteers

Participative Management

In alignment with its values of global consciousness and cooperation, as an international system the institute will be heterogeneous in composition, non-hierarchical in structure and participative in decision-making processes.

Development and Evolution

The development of the Institute will include three phases:

- Prototype design, development and testing: including the design of the Institute and three program components (Youth, Community, and Conflict Management Proficiency)
- Program and network expansion: including development of the Institute's network and additional programs
- Continuous development and multibranch evolution AS the aim of all Institute programs is generative (i.e.,

capacity and capability in systems design and development), the implementation of any program will result in new learning systems. Comprised of semi-independent and loosely coupled programs, the Institute will evolve towards increasing heterogeneity of cultural and social contexts.

Project Descriptions and Proposals Currently Available

- The overall design of the Institute
- The design and development of three programs
 - Conflict Management Proficiency
 - Young Peacemakers Program
 - Community Peace Development

Bela H. Banathy

INTERNATIONAL SYSTEMS INSTITUTE, FAR WEST LABORATORY, 1855 Folsom Street, San Francisco, California 94103, U.S.A.

Second Workshop and Conference of the IFAC Working Group on Supplemental Ways for Improving International Stability (SWIIS)

CONTRIBUTIONS OF TÉCHNOLOGY TO INTERNATIONAL CONFLICT RESOLUTION

June 3–5, 1986 Cleveland, Ohio, USA Sponsored by IFSR

This conference will focus on technology's potential for stimulating and strengthening approaches that can lead to the peaceful resolution of international conflicts. It will seek to engage the commitments and talents of the scientific and technological community and related disciplines towards this end.

Address all correspondence to IFAC SWIIS Conference Systems Engineering Department Case Western Reserve University Cleveland, Ohio 44106, USA (216) 368-4492

IMPACTS OF ARTIFICIAL INTELLIGENCE

Scientific, Technological, Military, Economic, Societal, Cultural, and Political

Edited by R. TRAPPL, Austrian Research Institute for Artificial Intelligence, Vienna, Austria

1986 x + 280 pages North-Holland, Amsterdam, and Elsevier Price: US \$ 30.00 / Dfl. 100.00

The determination and assessment of impacts of Artificial Intelligence is important in order to avoid potential damage and to encourage socially helpful and economically useful AI research and applications.

Contributions from leading AI researchers, working in different areas of AI and living in countries with different social systems, present in this book a detailed description of AI impacts on science, technology, the military, economics, society, culture and politics.

The book is addressed to the AI researcher, concerned about the potential impacts of his/her work, to the decision-maker in government, in a funding institution, or a private company, who spends or invests money in AI research, and to all those interested in the changes which AI will bring into their lives in the future.

A main feature of this work is a bibliography on the future, and impacts, of AI listing more than 600 books, articles, and research memos which contain material related to this topic. A KWIC-index helps with the retrieval of a source. A short introduction into AI ('A One-Hour Course') makes the content of the book easily comprehensible for the novice.

CONTENTS: 1. Introduction (R. Trappl). 2. Artificial Intelligence: A One-Hour Course (R. Trappl). 3. Impacts of Artificial Intelligence: An Overview (R. Trappl). 4. On Being Human in the Computer Age (M.A. Arbib). 5. Impacts of Artificial Intelligence (M. A. Boden). 6. The Intersection of AI and Education: Investing in Thought-Intensive Endeavours (S. A. Cerri). 7. Artificial Intelligence: A Lesson in Human Self-Understanding (I. M. Havel). 8. Social and Economic Impacts of Artificial Intelligence - A Japanese Perspective (M. Nagao). 9. Artificial Intelligence, Employment, and Income (N. J. Nilsson). 10. Social and Economic Impacts of Artificial Intelligence (R. C. Schank and S. Slade). 11. Al - Subjective Views, Future, and Impacts (T. Vámos). 12. An Artificial Intelligence Bibliography (I. Steinacker, R. Trappl, and W. Horn). Appendices. Name Index. Subject Index.

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Universitätsstraße 14/16, D-4400 Münster, FRG Prof. Dr. J. Baetge, General Director

"The General Systems Problem Solver"

ARCHITECTURE OF SYSTEMS PROBLEM SOLVING

by George J. Klir



Architecture of Systems Problem Solving is a textbook for courses at the first year graduate or senior undergraduate level which cover fundamental systems concepts, major categories of systems problems, and selected methods for dealing with these problems at a general level. A unique feature of the book is that the concepts, problems, and methods are introduced in the context of an architectural formulation of an expert system - referred to as the general systems problem solver or GSPS - whose aim is to provide users of all kinds with computer-based systems knowledge and methodology. The GSPS architecture facilitates a framework that is conducive to a coherent, comprehensive, and pragmatic coverage of systems fundamentals - concepts, problems, and methods. The book will also be of interest to scientists and professionals interested in learning about modern developments in systems science and expert systems.

CONTENTS: Introduction. Source and Data Systems. Generative Systems. Structure Systems. Metasystems. Complexity. Goal-Oriented Systems. Systems Simila-

rity. GSPS: Architecture, Use, Evolution. Appendices. References. Name Index. Subject Index.

About the author:

George J. Klir is Professor and Chairman of the Systems Science Department at the State University of New York at Binghamton. He received his M.S. degree in Electrical Engineering from the Czechoslovak Institute of Technology and his Ph.D. in Computer Science from the Czechoslovak Academy of Sciences.

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Edited by ROBERT TRAPPL, University of Vienna and Austrian Society for Cybernetic Studies

The European Meetings on Cybernetics and Systems Research have come to be recognized as the leading, internationally recognized conferences on the subject to be held anywhere in the World. The proceedings of the Eighth meeting, which form the material of this volume, are no exception. The reader will find 118 contributions to such diverse areas as: General Systems Methodology; Designing and Systems; Humanity, Architecture, and Conceptualisation; Cybernetics in Biology and Medicine; Cybernetics of Socio-Economic Systems; Fuzzy Sets; Systems Engineering for Design Automation; Methodological Improvements and New Applications for Expert Systems; Knowledge Based Natural Language Processing; and Artificial Intelligence/Symbolic Computation. \$144.-. ISBN 90-277-2213-7 D. Reidel Publishing Company P.O. Box 17, 3300 AA Dordrecht, Holland

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