

InterSymp-2007

19th International Conference on Systems Research, Informatics and Cybernetics

July 30 - August 4, 2007
Baden-Baden, Germany

Conference Chair: Professor George E. Lasker

*International Institute for Advanced Studies in Systems
Research and Cybernetics (IIAS), Canada*

6th International Symposium on Cognitive, Emotive and Ethical Aspects of Decision-Making in Humans and in AI

Organization and Chair: Goreti Marreiros

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Focus of the Symposium

This Symposium is a forum for exploring the values and affective concerns that inform human decisions and actions, as well as the prospect of developing artificial intelligence systems with the capacity to make and follow complex ethical decisions and function as autonomous moral agents (AMAs).

Topics include but are not limited to the following:

- Value consciousness in decision-making
- The effects of expectation, anticipation and human need on the quality of decision-making
- The role of emotions in decision-making and the consequent actions
- Sources of motivation to act

- Social consequences of decision-making in Hi-Tech environments
- Implications and limitations of various ethical theories
- Mono-cultural approaches–diversity–universalism
- Comparative ethics
- East-West ethics
- Intercultural communication
- Strategies for reconciling intercultural ethical dilemmas
- Group diversity, group decision making, and decision quality
- Relational intelligibility and decision making
- Creation of shared value systems
- Emergence of new ethical frameworks
- Historical development of ethics
- Ethics & technology
- The role of technology in the cross-cultural dialogue on ethics
- The impact of technology on our understanding of ethics
- Ethics based decision-making and intelligent problem solving
- What makes a decision a moral decision?
- Synergy of rational, emotional, and ethical intelligence in decision-making and action taking
- Synergy of human and artificial intelligence
- Modeling and simulation of emotions; affective computing
- Distributed affect and distributed cognition
- Machine consciousness
- (Artificial) moral intelligence
- Genetic programming and moral development
- Modeling and simulation of moral behavior
- Unbiased learning and non-rule based behavioral guidance for artificial intelligence
- Design and implementation of artificial moral agents (AMAs)
- Implementation of various top-down and bottom-up ethical theories in AI
- Computational strategies for overcoming the practical limitations of teleological, deontological, and ontological reasoning
- Incompleteness, machine intelligence, and mechanized reasoning
- Limits of ethics in information technology
- Bounded morality
- Autonomy boundaries of robots and autonomous agents
- The effects of robots and autonomous agents on human autonomy
- Effectiveness and acceptability of decisions supported/made by artificial moral agents
- Ethics of decision-making in intelligent automata and robotics systems
- Moral education for robots
- The importance of embodiment for robotic systems
- Artificial persons and ethics
- The effects of anthropomorphizing

- Responsibility for the actions of robots and autonomous agents
 - Awareness of the consequences of decisions and the related (non)actions
 - Methodology for assessing the moral consequences of (human) decision-making
 - Correcting consequences of erroneous decisions
 - Decision-making strategies under extreme conditions and during peak performances
 - Empathy and emphatic intelligence-based decision-making
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CALL FOR PAPERS:

Extended abstracts may be submitted electronically (Microsoft Word preferred, or .pdf files), by mail **by May 15, 2007** to the [Symposium Chairman](#) Prof. Goreti Marreiros at goreti@dei.isep.ipp.pt **with a copy to:** Prof. George E. Lasker at lasker@uwindsor.ca

REVIEW PROCESS AND CONFERENCE PROCEEDINGS:

All submitted papers and abstracts will be peer reviewed. Final papers should not exceed 5 single-spaced typed pages prepared according to the Instruction to Authors, to be found at the site <http://www.ias.edu>. The selected papers will be published in Conference Proceedings.

IMPORTANT DATES:

- April 18, 2007 Abstract due
- April 27, 2007 Notice of acceptance
- May 23, 2007 Final paper due

Registration, General Information: <http://www.ias.edu>

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