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Second Call for Submissions – **DEADLINE EXTENSION: March 28th, 2005.**

Epigenetic Robotics 2005, July 22-24, Nara, Japan

[www.epigenetic-robotics.org](http://www.epigenetic-robotics.org)  
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In the past 4 years, the Epigenetic Robotics annual workshop has established itself as a unique place where original research combining developmental psychology, neuroscience, biology, and robotics is being presented.

Epigenetic systems, either natural or artificial, share a prolonged developmental process through which varied and complex cognitive and perceptual structures emerge as a result of the interaction of an embodied system with a physical and social environment.

Epigenetic robotics includes the two-fold goal of understanding biological systems by the interdisciplinary integration between social and engineering sciences and, simultaneously, that of enabling robots and artificial systems to develop skills for any particular environment instead of programming them for solving particular goals in specific environments.

Psychological theory and empirical evidence is being used to inform epigenetic robotic models, and these models should be used as theoretical tools to make experimental predictions in developmental psychology.

Workshop themes include, but are not limited to:

- \* The development of: concepts, emotion, imitation, intentionality, intersubjectivity, joint attention, learning, motivation, non-verbal and verbal communication, sensorimotor schemata, shared meaning and symbolic reference, social learning, social relationships, social understanding ("mind reading", "theory of mind"), value systems;
- \* The role of motivations, emotions, and value systems in development;
- \* Interaction between innate structure, ongoing developing structure, and experience;
- \* Related issues in algorithms, robotics, simulated robots, and embodied systems;
- \* Related issues from human and nonhuman empirical studies.

This year, we particularly encourage submissions dealing with imitation, joint attention, non-verbal and pre-verbal communication, autonomous cognitive development, coming from developmental psychology, biology, neurophysiology, robotics, and artificial intelligence.

For summaries of the papers from the latest workshops please see:

Zlatev and Balkenius (2001), Prince (2002), Berthouze and Prince (2003), and Berthouze and Metta(2004).

These papers are available at <http://www.epigenetic-robotics.org/about.html>

#### MODES OF SUBMISSION:

(1) Abstract Submission where authors submit one-page abstract. After the review, selected authors will be invited to present a poster. Posters will be allocated 1 or 2 pages in the Proceedings.

(2) Regular Submission comprising four-page extended abstract.

Based on the review, selected authors will be invited to submit either:

- a full paper (max 8-page paper in Proceedings);
- a short paper (max 4-page paper in Proceedings); or
- a poster (2-pages paper in Proceedings).

All submissions should be sent as PDF files to workshop co-chair Luc Berthouze (Luc.Berthouze@aist.go.jp).

#### IMPORTANT DATES:

~~March 15th, 2005:~~

March 28th, 2005:

Submission deadline

May 1st, 2005:

Notification of acceptance for papers and posters

June 1st, 2005:

Deadline for camera-ready papers and posters

#### INVITED SPEAKERS:

Jean Decety,

University of Washington

Masahiro Fujita,

Sony Intelligent Dynamics Laboratory, Tokyo

Eugene Goldfield,

Children's Hospital Boston

Annette Karmiloff-Smith,

University College London

Brian Scassellati,

Yale University

Please send any questions to the workshop chair:

Hideki Kozima (xkozima@nict.go.jp)

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