

Going Green

EcoDesign 2005:

4th International Symposium on Environmentally Conscious Design and Inverse Manufacturing

Integration of social system design, business strategies, and technologies toward EcoDesign under the global manufacturing era

Call for Papers

December 12-14, 2005

Hitotsubashi Memorial Hall, Tokyo, Japan

Organized by

Union of EcoDesigners

(Association of EcoDesign Societies, Japan)

In cooperation with (tentative)

IEEE CS TCEE, USA

CARE Electronics, Europe

Scope

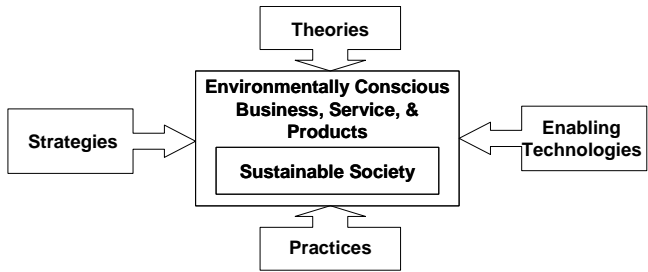
We are delighted to announce that the “EcoDesign 2005: Forth International Symposium on Environmentally Conscious Design and Inverse Manufacturing” will be held on December 12-14, 2005 in Tokyo, Japan. This symposium is organized by the Union of EcoDesigners, Japan, under the unified subtitle “Going Green” that is commonly used among IEEE International Symposium on Electronics and the Environment, CARE/Electronics Goes Green, and EcoDesign. The third symposium EcoDesign 2003 gathered over 300 participants and about 180 presentations from Europe, U.S.A., and Asia.

Next Stage of EcoDesign

The aim of EcoDesign is to construct the sustainable society by developing and deploying various environmentally conscious social systems, businesses, services, and products. While the movement of EcoDesign is successfully promoted by various legislative activities in many countries, innovative environmentally conscious businesses have not achieved majority yet, including, for instance, product & service system and servicization. In order to step forward, it is necessary to grasp the problem from a holistic viewpoint and to harmonize various enabling technologies under a clear strategy. EcoDesign 2005 includes a variety of topics such as environmentally conscious design, enabling technologies, business, social system, infrastructure and life cycle management.

Especially, the 4th symposium focuses on two special themes; EcoDesign of social system and EcoDesign in Asia. The former reflects our recognition that the global environmental issues are getting worse although our EcoDesign activities. Therefore, we need integration of various EcoDesign actions into design of sustainable social system, in addition to individual EcoDesign activities. The latter, EcoDesign in Asia, comes from the fact that rapid industrialization, growing markets, and fast increasing living standards in Asia are becoming a pivot for the global sustainability and therefore one of the main concern of EcoDesign.

The symposium welcomes presentations related to one or more aspects of these topics; practices, theories, strategies, and enabling technologies, from not only technical viewpoints, but also social, legal, economic, cultural viewpoints. As a result, EcoDesign 2005 hopes to encourage discussion and exchange information integrating these aspects among participants from various countries, various backgrounds, and various professions.



Topics

Main topics of the symposium include the following categories. Among others, 4th EcoDesign Symposium set two special themes; *EcoDesign of Social System* and *EcoDesign in Asia*. Presentations related to these themes are strongly encouraged.

EcoDesign symposium expects presentations on both of practical case studies and novel theories. And the symposium covers wide variety of subjects: not only electric and electrical products but also various products (including automobiles, heavy machines, machine tools, furniture, etc.), buildings, urban infrastructure, and society.

1) EcoDesign of Social System [Special Theme]

Design, evaluation, and management of social systems so as to change the social system into the sustainable society

2) Eco Life-style

Analysis and evaluation of customers' behavior, and new measures for achieving environmentally conscious life-styles

3) Sustainable Businesses

Development, design, evaluation of businesses for the reduction of the environmental load

4) Environmentally Conscious Products and Services

Development, design, management, and evaluation of products & services and their lifecycles

5) Sustainable Consumption and Recovery of Resource and Energy

Strategies, methodologies, and technologies of resource recovery (incl. reuse and recycling) and energy saving

Asia) EcoDesign in Asia [Special Theme]

Environmental legislation in Asia, EcoDesign practices in Asia, reuse and recycling in Asia, product & material circulation in Asia, etc.

If the topic of your presentation is related to the Asia topic, please mark "Asia" in the Abstract Submission Form, in addition to one of the above five categories.

Program (Summary)

Monday, 12 December 2005

Opening, Plenary Lectures, Technical Sessions

Tuesday, 13 December 2005

Keynote Speeches, Technical Sessions, Poster Sessions, Banquet

Wednesday, 14 December 2005

Keynote Speeches, Technical Sessions, Closing, Award Ceremony

Thursday, 15 December 2005

Technical Tours

Activities

Symposium Venue

EcoDesign 2005 is held at Hitotsubashi Memorial Hall, Tokyo, Japan, which is located at the central area of Tokyo. The hall is located at National Center of Sciences Building, which is indicated as National Institute of Informatics at the map of <http://www.nii.ac.jp/help-e.html>).



Technical Session

The technical session consists of short presentations, full presentations, and poster presentations:

- **Short presentation:**

- > 15 min for oral presentation (incl. discussions)
- > 2 pages for a Manuscript (Letter or A4 size paper)
- > 1 page for an Extended Abstract (Letter or A4 size paper)

- **Full presentation:**

- > 25 min for oral presentation (incl. discussions)
- > 4 pages to 8 pages for a Manuscript (Letter or A4 size paper)
- > 2 pages for an Extended Abstract (Letter or A4 size paper)

- **Poster presentation:**

- > Poster sessions for presentation with a poster. This poster sessions will be conducted on specific themes and will provide opportunities for direct discussions with authors.
- > 2 pages to 8 pages for a Manuscript (Letter or A4 size paper)
- > 1 page for an Extended Abstract (Letter or A4 size paper)

Awards

Best paper awards and Best poster awards

Some distinguished papers presented at EcoDesign 2005 will be chosen as “Best paper awards” by the international EcoDesign 2005 award committee according to contents of the papers (including both of full presentations and short presentations). “Best poster awards” will be also selected according to their contents and quality of posters.

Events

A Banquet will be held on December 13, 2005 evening. Details will be given in the Advance Program.

Technical Tours

Technical tours will be held on December 15, 2005 following the symposium. Details of planned technical tours will be given in the Advanced Program. At present we are planning the following tours.

Tour 1: What effects does Japanese “home appliances recycling law” make? –Advanced recycling facility of home appliances–

According to the recycling law in Japan, advanced recycling for home appliances has been conducted from the year 2001. What problems did we have with these practices? How did we solve these problems? What have these systems brought about in the “environmentally conscious” product design? And now how are we going to improve them? This tour will give you useful information necessary for constructing recycling systems in your country.

Tour 2: Does Japan lead the world in the field of environmentally conscious products? –Eco-products Japan 2005 exhibition –

Since 1999, the “Eco-products Japan” exhibition has been held to provide a forum for exchanging and spreading ideas, information and opinions about eco-products. It features exhibitions of some 300 companies’ environmentally conscious products, in a wide range of fields, from “home use” products to “information/service” products. You will possibly understand the current state of Japan with regard to eco-products.

Procedure to Submit Abstracts and Papers

Submission of Extended Abstracts

All individuals who wish to present technical papers should submit extended abstracts by email (ecodesign2005@ecodenet.com) before March 31, 2005. The filled-out Abstract Submission Form should be attached to your abstract.

All abstracts should be formatted according to the instruction and template. Number of pages of extended abstract differs according to the preferred presentation style. The abstract should include one important figure if necessary, and some references. Submission that does not fit the above conditions might be subjected to reject. **You may down load the Abstract Submission Form and the template for abstract from the EcoDesign 2005 web site.** (<http://www.ecodenet.com/ed2005/>)

- **Short presentation:** 15 min. oral presentation (incl. discussions)
 - > **Submit one page (Letter or A4 size) abstract**
- **Full presentation:** 25 min. oral presentation (incl. discussions)
 - > **Submit two pages (Letter or A4 size) abstract**
- **Poster presentation:** poster presentation in the poster sessions
 - > **Submit one page (Letter or A4 size) abstract**

Review System of Extended Abstracts

Each extended abstract will be reviewed by the international EcoDesign 2005 program committee and be judged as accepted as short presentation, full presentation, or poster presentation, or rejected according to the following criteria, in order to keep high quality of this symposium. This review system does not imply that EcoDesign 2005 selects only academic papers. Papers describing industrial, business, and social experiences are also welcome.

- Relevance to the topics of EcoDesign 2005
- Originality
- Significance of the results
- The proposed results to the scope of EcoDesign 2005

Notification with some reviewers' comments will be sent at beginning of June, 2005 by e-mail. Any inquiry about the submission, please feel free to contact the Secretariat by e-mail at your earliest convenience.

Official Language

The official language of all presentations is English.

Completed papers for the Proceedings

Proceedings will be published from IEEE Computer Society Press. Manuscripts are limited to two pages (short presentations), 4-8 pages (full presentations), or 2-8 pages (poster presentations), including all figures, tables, and references. And the Manuscripts should be submitted before August 31, 2005. Detailed information will be sent with notification of acceptance.

Important Dates

March 31, 2005	Submission of abstracts
Beginning of June, 2005	Notification of acceptance
August 31, 2005	Submission of manuscripts
December 12–14, 2005	<i>EcoDesign 2005</i>

Symposium Secretariat

For updated information, please check EcoDesign 2005 web site (<http://www.ecodenet.com/ed2005/>).

Further information and any inquiry please contact to:

EcoDesign 2005 Secretariat
NPO EcoDesign Promotion Network
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E-mail: ecodesign2005@ecodenet.com

Symposium Organization

Symposium Chair

R. Yamamoto (The University of Tokyo, Japan)

Organizing Committee

Co-Chairs (tentative)

Y. Furukawa (Tokyo University of Agriculture and Technology, Japan)

H. Koshiibu (Green Purchase Network, Japan)

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Symposium Organizer

Union of Eco-designers

In Cooperation with:

IEEE CS TCEE, USA

CARE Electronics, Europe