Program at a glance

| | Room A | Room B | Room C | Room D | Room E | | | | | | |
|--------------|--|--|---|--|---|--|--|--|--|--|--|
| 2-Dec | | | | | | | | | | | |
| 9:30-10:15 | Opening | | | | | | | | | | |
| 10:15-11:00 | Plenary keynote 1: Hugo Schally European Commission | | | | | | | | | | |
| 11:00-11:45 | Plenary keynote 2: Rolf Steinhilper Bayreuth University, Germany | | | | | | | | | | |
| 12:00-13:00 | Lunch | | | | | | | | | | |
| 13:00-14:20 | OS: Organizational LCA | Eco-innovation support method | Ecodesign method and tools (1) | Critical resource and urban mining | OS: Low carbon society | | | | | | |
| 14:40-16:00 | Sustainable society (1) | Eco-innovation and policy analysis | Ecodesign method and tools (2) | Critical resource recovery | OS: Designing sustainable energy futures (1) | | | | | | |
| 16:20-17:40 | Sustainable society (2) | Ecodesign policy/Eco labelling | Information feedback to design stage | Innovative assembly and disassembly process | OS: Designing sustainable energy futures (2) | | | | | | |
| 18:15-20:30 | Reception | | | | | | | | | | |
| <u>3-Dec</u> | | | | | | | | | | | |
| 9:00-10:20 | OS: Future design for sustainability (1) | OS: Locally-oriented sustainable design (1) | Green electronics (1) | OS: Additive manufacturing as sustainable manufacturing tool | Sustainable energy system | | | | | | |
| 10:40-12:00 | OS: Future design for sustainability (2) | OS: Locally-oriented sustainable design (2) | Green electronics (2) | Remanufacturing (1) | Renewable energy system assessment | | | | | | |
| 12:00-13:00 | Lunch | | | • | | | | | | | |
| 13:00-14:00 | | | Poster Session | | | | | | | | |
| 14:10-15:30 | OS: Future design for sustainability (3) | OS: Locally-oriented sustainable design (3) | Green electronics (3) Remanufacturing (2) | | Geographical sustainability assessment | | | | | | |
| 15:45-16:30 | Plenary keynote 3: Kiyoto Furuta C | Canon Inc., Japan | | | | | | | | | |
| 16:30-17:15 | Plenary keynote 4: John Disharoon | l Caterpillar Inc., USA | | | | | | | | | |
| 18:30-21:00 | Banquet | | | | | | | | | | |
| 4-Dec | | | | | | | | | | | |
| 9:00-10:20 | Sustainable consumption | PSS design | Sustainable manufacturing | Ecodesign of handicrafts | OS: Designing sustainable energy futures (3) | | | | | | |
| 10:40-12:00 | Prospects of ecodesign research (1) | Sustainable supply chain management | Green building | Ecodesign simulation (1) | OS: Designing sustainable energy futures (4) | | | | | | |
| 12:00-13:00 | Lunch | | | | | | | | | | |
| 13:00-14:20 | Prospects of ecodesign research (2) | | Green telecommunication and electronics | Ecodesign simulation (2) | Sustainable transportation | | | | | | |
| 14:30-15:10 | Closing&Award | | | | | | | | | | |

Plenary Keynote Speakers



Hugo Schally Head of Unit, Directorate General "Environment", "Eco-innovation and circular economy" at European Commission EU Policy Development on Eco-innovation and Circular Economy



Rolf Steinhilper, PhD Full Professor for Manufacturing and Remanufacturing Technology, Fraunhofer Group Leader, **University of Bayreuth**, **Germany** *Technology Trends and Challenges of Remanufacturing*



Kiyoto Furuta Senior General Manager of the Global Environment Center, **Canon Inc., Japan** *Canon's Environmental Activities (Tentative)*



John T. Disharoon

Director of Market Access for Caterpillar Remanufacturing, Components and Work Tools Division, Caterpillar Inc., USA Caterpillar Remanufacturing: The Business of Sustainable Development

Oral sessions: First day (Dec. 2)

| | Room A | | Room B | | Room C | | Room D | | Room E | |
|-------------|---------------------------|---|--------------------------------------|--|-----------------------|---|----------------------|---|------------------------|---|
| 13:00-14:20 | OS: Organizational | LCA | Eco-innovation sur | oport method | Ecodesign method | and tools(1) | Critical resource a | nd urban mining | OS: Low carbon s | ociety |
| | Julia Martínez- | Guidance on Organizational Life Cycle Assessment | | State of the Art of Open Innovation and Design for Sustainability | | Reducing conflicts of interest in Eco-Design - the relation of innovation management and | | Strategy Planning Before Urban Mining: Exploring the Targets | Hiroshi Onoda | A Study on the approach to the Smart Community ~Through renewable energy projects in Saitama Prefecture~ |
| | Atsushi Inaba | Japanese Activities on Organizational LCA | Jahau Lewis Chen | Device Analysis Model in Computer-aided Innovation Software for Ecoinnovation of the Atmospheric Plasma Etching | Shinichi Fukushige | Eco-Design in the automotive Computer-Aided Design for Semi-Destructive Disassembly | Ichiro Daigo | Structure of conditions for recycling from urban mine | Hidetaka Aoki | Impact of Extreme Technologies on Low-Carbon Society |
| | Julia Martinez- Blanco | Social Organizational LCA (SOLCA) | Yumihito Yokoki | System User model in the life cycle simulation of mechanical parts based on Prospect theory | Marco Mandolini | Usability demonstration of the G.EN.ESI eco-design platform: the fridge case study | Junbeum Kim | Current Issues on Lighting Industry and System | Tomomi Nagao | Estimation of reduction in CO2 emissions by using ICT throughout Japan |
| | Discussion | | Julian Sarnes | Deriving Heuristic EcoDesign Guidelines for the Development of Components | Seong-Rin Lim | A Methodology to Identify and Analyze Key Factors in Eco- design | Shinsuke Kondoh | Linear programing approach to design competitive urban mines | Takashi Iwamoto | Development of Low-Carbon Society Businesses in Japan |
| 14:40-16:00 | Sustainable society | (1) | Eco-innovation and | 1 policy analysis | Ecodesign method | and tools (2) | Critical resource r | ecoverv | OS: Designing sus | tainable energy futures (1) |
| 14.40-10.00 | Christoph | Sustainability Indicators – | Helmut Yabar | The Promotion and Diffusion of | Shuho Yamada | Satisficing Design Method for | Tohru Kamo | Recovery of Useful Resources | Haruki Tsuchiya | Sustainable energy strategy |
| | Hollauer | Overview, Synthesis and future Research Directions | | Environmental Innovations: Streamlining the Dissemination Mechanisms | onuno Tamada | Sustainable Performance, Profitability for Manufacturer and Reduction of Environmental Loads | | from End-of-Life Photovoltaic Module by liquefaction of cured EVA | Hardki Tsaomya | primarily involving renewable resources in Japan |
| | | Postmodern Dynamics of Innovation and Knowledge in the Context of Sustainable Energy Development | Fanglin Chao | Patentability considerations on Green Sustainable Design | Daniel Kammerl | A Framework for Sustainable Product Development | Akihiro Yoshimura | Development of Recycling System of Precious Metals and Rare Metals from Secondary Resources Using "Organic Aqua Regius"- DMSO Solution Containing Conper Halides | | Continued |
| | Avendano | The Role of Industrial Design in Effective Post-Disaster Management | Jacobus Marthinus Van Der Bank | An Analysis of the Ecodesign Scientific Network 1994-2014 | Marco Mengarelli | A LCA based platform to support a systematic introduction of environmental criteria into the design process of mechatronic products | Hiroyuki Inano | Recovery of Metals from E- waste Mediated by Molten CRT Lead Glass | Hooman Farzaneh | Comparison of solar energy potential, policy and progress in different regions |
| | | | Young Do Jung | Case Studies of Innovative Eco- Design | Egle Katiliute | Dynamic model for product eco- design: case and analysis | Otmar Deubzer | Recycling of Critical Resources from LED Products | Miguel Esteban | Recent Developments in Ocean Energy and Offshore Wind: Financial Challenges and Environmental Misconceptions |
| 16:20-17:40 | Sustainable society | (2) | Ecodesign policy/F | ico labelling | Information feedby | ack to design stage | Innovative assemb | ly and disassembly process | OS: Designing sus | tainable energy futures (2) |
| 10.20 17.10 | | From Eco to Sustainable | Tsai Chi Kuo | Eco-Design Activity in Taiwan - | | Investigating types of | | A Natural and Intuitive | Andrew John | Renewable Energy Policy |
| | | Innovation: approach and methodology to guide design initiative into the innovation world | | From Design for Environment to Design for Sustainable Consumption | | information from WEEE take- back systems in order to promote Design for Recovery | Lini enten entang | Constraint-Based Virtual Assembly System with a Wearable Haptic Interface | Chapman | Efficacy and Sustainability: The role of equity in improving energy policy outcomes |
| | - | The Need to Go Beyond "Green University" Ideas to Involve the Community at Naresuan University, Thailand | Carl Dalhammar | Rethinking the Ecodesign Policy Mix in Europe | Maike Kosiol | Potential of Common Methods to Integrate Sustainability Requirements in the Product Development Process ? a Case Study | Shigeki Koyanaka | Automatic sorting of small electronic device scraps for rare metal recycling | Benjamin C McLellan | "What if we all lived by the sun?" Demand shifting for a renewable-driven society |
| | | Uncertainty analysis for the greenhouse gas impact of raw milk | Rattanawan Mungkung | Global Initiative on UPCYCLE Carbon Footprint Certification and Label Systems for Creative Waste Management and Greenhouse Gas Reduction | Keshav Parajuly | A methodology platform for improved resource recovery from electronic products and design for end-of-life | Nozomu Mishima | Concept Proposal and Feasibility Study of Remote Recycling - Design of the Screening Mechanism | Tatsuya Kurafuchi | Potential of Cooperation of Two Facilities Dealing with Urban Biomass Resources |
| | | | Allen H. Hu | Strategy of Implementing Carbon Labeling in Taiwan by Combining SWOT and ANP | | | Nozomu Mishima | Concept Proposal and Feasibility Study of Remote Recycling - Separation Characteristics and Cost-Profit | Hiroki Shibagaki | Efficiency Improvements and Economic Evaluation by Exergy Analysis of Small Binary Power Generation with Unutilized Heat |

Oral sessions: Second day (Dec. 3)

| | Room A | | Room B | | Room C | | Room D | | Room E | |
|-------------|------------------------|---|---------------------|---|-------------------|---|----------------------------------|--|--------------------|---|
| 9:00-10:20 | OS: Future design | for sustainability (1) | OS: Locally-oriente | ed sustainable design (1) | Green electronics | (1) | OS: Additive man | ufacturing as sustainable manuf | Sustainable energy | system |
| 2100 10120 | Tatsuyoshi Saijo | | Hideki Kobayashi | Perspectives on Sustainable Product Design Methodology Focused on Local Communities | Eri Matsunaga | | | The potential of additive manufacturing technology for realizing a sustainable society | | Green servicizing in renewable micro-generation - What about the impact on local energy autonomy? |
| | | Continued | Tamura | Proposal of a Design Method for Local Oriented Manufacturing in Developing Countries - 1st report: Problem description and knowledge representation | Kathleen Jerchel | Enabling Condition Based Maintenance of 2.5D Systems by Developing Canaries for Through Silicon Vias | Shinichi Fukushige | Design Support System for Product Renovation through Direct Digital Manufacturing | Ayu Washizu | Input-output analysis of Japan's use of renewable energy |
| | Michinori Uwasu | Future design - How to create future generations in visioning? | Sittha Sukkasi | Environment-community- human-oriented (ECHO) design: A context-appropriate design-thinking process for well-being of individuals, communities, and the local | Masatoshi Sakai | Environment Friendly Printed Electronics by Thermal Lamination | Toshitake Tateno | Bio-Degradable Mechatronic Products by Additive Manufacturing | Satoko Nasu | Estimation of Surplus Power From Energy-efficient Solar House |
| | Masashi Kuroda | Participatory deliberation for future design by creating virtual future generations – Evidence from an experimental workshop in Yahaba Town, Iwate, Japan | Jahau Lewis Chen | anvironment Integrating Innovative Principles at the Bottom of Pyramid andIntegrating Integrating Innovative Principles at the Bottom of Pyramid and TRIZ Theory to Develop Sustainable Product Design Method | Stephan Benecke | Mission Profile Oriented Design for Energy Harvesting Systems to Reduce Environmental Impacts of Autonomous Sensors | Pitchapa Lotrakul l | The Monitoring of Three- Dimensional Printer Filament Feeding Process using an Acoustic Emission Sensor | Jorge Morel | Analysis of the Roles of an Organic Chemical Hydride- Based Hydrogen Storage System in the Power Quality of a Microgrid |
| 10:40-12:00 | OS: Future design | for sustainability (2) | OS: Locally-oriente | ed sustainable design (2) | Green electronics | (2) | Remanufacturing (| (1) | Renewable energy | system assessment |
| 10.10 12.00 | | | Harald E. Otto | Unrealized Knowledge Creation Potential within the ESCO Concept at SOEs in Asia | Jacquetta J Lee | | Rolf Steinhilper | Remanufacturing Technology Developments for New Automotive Products | | Assessment of the Carbon Footprint and Energy Payback Time of a High- Concentration Photovoltaic System |
| | Benjamin C McLellan | Participatory design as a tool for effective sustainable energy transitions | | Developing an Innovation Business Model for Bottom of the Pyramid Markets | Nozomu Mishima | Evaluation of Resource Efficiency of Electrical and Electronic Equipment | Jelena Kurilova- Palisaitiene | Lean Remanufacturing: addressing system challenges | Yusuke Jinno | A proposal of the integrated performance indicator of residential fuel cell power system in consideration of eco-burden and resource depletion |
| | Yutaka Nomaguchi | Study on "System of Systems" Design Method with Uncertainty Assessment based on Robust Optimality - Case Study of Distributed Energy System Design in Mishima Area. Osaka | | The study of sustainable product design on BOP consumer | Winco KC Yung | Development of a Methodological Framework for Assessing the Social Impacts of Electronic Products | Kenta Matsui | A Negotiation Model for Closed-Loop Supply Chains with Consideration for Economically Collecting Reusable Products | Yu Suiran | The Environmental Impact Analysis Of Manufacturing Different Tubular Solid Oxide Fuel Cell Modules |
| | Tomohiro Tasaki | Design and Formulation of a Local Circular Society: Cases of Biomass Recycling and its Strategic Aspects | 0 | Pico-Solar Lantern Repair & Recycling In East Africa | Hidetaka Hayashi | Robust Micro Identification Marking on FPC Surface | Mitsutaka Matsumoto | Examination of demand forecasting for remanufacturing without information of new product sales time distribution | Kenji Koido | Well-to-wheel analysis on biomethane from food wastes in Nakhon Nayok province, Thailand |

| 14:10-15:30 | OS: Future design for sustainability (3) | | OS: Locally-oriented sustainable design (3) | | Green electronics (3) | | Remanufacturing (2) | | Geographical sustainability assessment | |
|-------------|--|--|---|--|-----------------------|---|-----------------------|--|--|---|
| | Yusuke Kishita | Designing Sustainable Futures Using a Backcasting Approach | Hideki Endo | A comparative analysis of consumers' perception towards remanufactured auto parts in the US and in Japan, and the implications | Hyejeong Go | Ecodesign process of Samsung Electronics in the development of electronic equipment | Carsten Bucker | Combined Remaufacturing and Upgrading of a Diesel Engine into a LPG Gas Engine for River Barges | Sergiy Smetana | Regionalized Input-Output Life Cycle Sustainability Assessment: Food Production Case Study |
| | Michinori Kimura | Examination of the Roundtable technique for Sustainable Society regional vision realize - A Case Study of Shiga Prefecture Takashima of "Takashima future-Roundtable" | Robert Wimmer | Analysis of User Needs for Solar Cooker Acceptance | Lauri Smalen | Environmental footprint of telecommunication products | Sharon Prendeville | Design for Remanufacturing and Circular Business Models | Giancarlo Raschio | Spatiotemporal tools for regional low-carbon development: linking LCA and GIS to assess clusters of GHG emissions from cocoa farming in Peru |
| | Keishiro Hara | Will people's perceptions and judgements change in view of future generations? – Evidence from a questionnaire survey | Li-Hsing Shih | Persuasive Design Aid for Products Leading to LOHAS Considering User Type | Yongje Lee | A review on the result of eco- efficiency study | Yasutaka Kainuma | A study on hybrid manufacturing/remanufacturing system | Wu-Hsun Chung | Improvement of Carbon Emissions in a Green Port via AIS and GIS |
| | Ritsuji Yoshioka | An Examination of Effective Forms of Two-Way Communication for Building a Consensus on Waterworks Policies | | | Rakesh Vazirani | Gathering a Product's Footprint for Materials Traceability, Safety, and Collaborative Sustainability | Nozomu Mishima | ~ | Tatiana Perminova | Merging Risk Assessment and Human Toxicity in Petrochemical Manufacturing |

Oral sessions: Third day (Dec. 4)

| | Room A | | Room B | | Room C | | Room D | | Room E | | |
|-------------|------------------------------------|--|-------------------------|--|-------------------------|--|----------------------------------|--|-------------------------------|---|--|
| 9:00-10:20 | Sustainable consumption PSS design | | PSS design | Sustainable manufacturing | | | | Ecodesign of handicrafts | | OS: Designing sustainable energy futures (3) | |
| 9.00-10.20 | | Sustainable Consumption and Poverty Alleviation: A Case of Nigeria | Mattias Lindahl | Actors and System Maps - A Methodology for Developing Product/Service Systems | | Sustainability assessment for wireless micro systems in smart manufacturing environments | Singh Intrachooto | Eco-design and Life Cycle Assessment of Japanese Tableware from Palm- Melamine Bio-Composites | Olang Tabitha | Sustainable Energy Financing: Case Study of Kenya | |
| | Sofie Oestergaard | Food waste reduction, an overview of the field | Fumika Murakami | Qualitative Simulation for Early-Stage Service Design | Jurgis K. Staniskis | Systems Approach to Resource Efficient and Cleaner Production Solutions: Method & Implementation | Chen-Fu Chen | Consumer's Lifestyle and Its Impact on Eco-Product Aesthetics | Hiromi Ohkubo | Energy Saving Potential of Next Generation BEMS | |
| | Hoang Thanh Tung | Sustainable Development of the Food Supply Chains from Consumer's Perspective: A Case Study of Plum Supply Chain in the Northwest Upland Vietnam | Johannes Matschewsky | PSS without PSS Design - Possible Causes, Effects and Solutions | Shih-Chen Shi | Lubricating and degradability behavior of environmental friendly thin film HPMC | Muhamad Ezran Zainal Abdullah | Playground and Toys as a Medium in Promoting Green Lifestyle | Nobuyuki Kitamura | A fully renewable DC Microgrid with autonomous power distribution algorithm | |
| | | | Yutaka Dairokuno | A method of selecting customer-oriented service and delivery modes in designing environmentally benign product service systems | Supachai Vongbunyong | Selective volume fusing method for cellular structure integration | | | Yusuke Kishita | Describing Electricity Demand Scenarios Focusing on the Diffusion of Low-carbon Technologies in 2030 | |
| 10:40-12:00 | Decenants of coords | aion maaaanah (1) | Sustainable sugar | , shain managamant | Crean huilding | | Ecodesign simulat | ion (1) | OS. Designing and | tainable ananay futures (4) | |
| 10.40-12.00 | Prospects of ecode | Rapid Change of global | | chain management The Effects of Eco-Design of | Green building | Sustainability Assessment of | | A Fuzzy Monte Carlo | | stainable energy futures (4) Perovskite Solar Cells: The | |
| | Kohmei Halada | material flow and the requirement for Eco-design | Jongseok Kim | LG Household & Health Care's Dishwashing Detergent on Carbon Emission Reduction | Chisato Takahashi | High-rise and High-Density Urban Structures | AMM Sharif Ullah | Simulation Technique for Sustainable Society Scenario (3S) Simulator | Ranaporn Tantiwechwuttikul | Next Promising Technology? | |
| | Fredrik Paulson | Challenges and trends within eco-design | Sandra Link | Potentials and Constraints for Companies Improving the Resource Efficiency of their Products | Shang-Jen Chen | The method of composition of plant raw brick | Hitoshi Komoto | Simulation-based uncertainty quantification in end-of-life operations for strategic development of urban mines | Benjamin C McLellan | The minerals-energy nexus? past, present and future | |
| | Nils Nissen | Long-term Research Cycles for Green Electronics | Jessica Hanafi | Preliminary Research on the Perception and Implementation of Sustainable Supply Chain in Indonesian Companies | Ali Vakili- Ardebili | Durability; A Key to Sustainable Building Design (SBD) | Yoshitaka Tanimizu | Integrated Production and Transportation Scheduling for Low-Carbon Supply Chains | Koji Tokimatsu | Perspectives on mineral-energy nexus by a global systems modeling | |
| | | | Keagan Rubel | Engaging the supply chain on eco-design topics to stimulate innovation - BT Better Future Supplier Forum | | | | | Warathida Chaiyapa | Oil and Gas industry's role on the transition to a low-carbon future in Thailand | |
| | | | 9 | | | | | | | | |
| 13:00-14:20 | Prospects of ecode | sign research (2) | | | Green telecommu | nication and electronics | Ecodesign simulat | | Sustainable transp | | |
| | Tomohiko Sakao | Eco-Co-design - Ecodesign with Communication, Cooperation, and Co-creation: A preliminary report | | | Atsushi Terazono | Material recovery and environmental impact by informal e-waste recycling site in the Philippines | Yasuhiro Sudo | Usage of a Digital Eco-Factory for a Printed-Circuit Assembly Line | Hyung Chul Kim | Climate Change Implications of Vehicle Lightweighting: A Fleet-Based Life Cycle Assessment | |
| | Rudi Meyer | Improvisation: Negotiating needs and scarcity through design | | | Minako Hara | Analysis modeling for electricity consumption in communication buildings | Yannick De Bock | User Adapting System Design for Improved Energy Efficiency During the Use Phase of Products: Case Study of an Occupancy-Driven, SelfLearning Thermostat | Kana Matsuura | A Study on Development and Utilization of Next-Generation Mobility Equipment ~Development and Performance evaluation of Air Engine Vehicles~ | |
| | Casper Boks | The future of design for sustainable behaviour, revisited | | | Yusuke Kishita | Describing Long-term Scenarios of Electricity Consumption in the Telecommunications Industry | Yuki Yamamori | Seller-Buyer Matching for Promoting Product Reuse Using Distanced-Based User- Grouping | Yue Zhu | Study on the Diffusion of NGVs in Japan and Other Nations using the Bass Model | |
| | | | | | | | Faiz Mohd Turan | Criteria Assessment in Design Evaluation for Product Development using Integrated Fuzzy-TOPSIS | Akinori Kaneta | Environmental effect of car crusing speed in consideration of natural wind | |

Poster session (Dec. 3: 13:00-14:00)

| Eco innovation policy | |
|------------------------------------|--|
| Jong Min Kim | Opportunities and Challenges for New Korean Integrated Pollution Prevention and Control Regulation with Product Service System |
| Rajeev Kumar Singh | Analysis of Relation between Environment Policy Instruments and Innovations: Case Study in Japan |
| Hiroshi Sao | Estimates of disaster waste and damage costs from great earthquakes along the Nankai Trough: The case of Kanagawa prefecture |
| Yu-Chen Huang | Key Success Factors of Green Innovation for Transforming Traditional Industries |
| Zhaoling Li | Quantitative analysis of China's industrial structure based on input-output table and social network analysis |
| Noriko Nozaki | Simulation Analysis of Waste Recycling Policy towards Designing a Sound Material-cycle Society: Case Study in Tokyo |
| | Introducing Integrated Waste Management Systems in Developing Countries: Case Study in Santiago de Chile |
| Ali Vakili-Ardebili | Sustainable Land Development and Management |
| Corporate strategy and con | |
| Yoshihiko Sakamoto | How Japanese companies can contribute to water sustainability |
| Tsai-Feng Kao | Research on Corporate Social Responsibility Advertising Design |
| Dai Kimura | How do public interest and knowledge affect environmental conscious consumption? |
| Taichi Kobayashi | Development of safety system for accidents in waste management and recycling facilities |
| Product ecodesign and edu | |
| Yoon-ha Kim | Decoupling of component from product for the new g-BOM design approach |
| Yuya Sakaguchi | Effects of physical life distribution of a reusable unit in environmentally-conscious products on reuse efficiency |
| Yuuki Matsumoto | Simultaneous evaluation of environmental impact and incurred cost on selection of end-of-life products recovery options |
| Lirong Zhou | A Model Based on Design Features to Evaluate Product Life Cycle |
| Li Lu | Study On The Influence Mechanism Of Planar Linkages On Energy Consumption Of Heavy-Duty Mechanical Servo Presses |
| Edilson S Ueda | Undergraduate Students Designing Environmental Concern Products - A Case Study in Design Education |
| Fanglin Chao | Sustainable and industrial useful consideration of pet companion robot for elderly |
| Sustainability assessment a | |
| Jongseok Kim | The Carbon Partnership Performance of LG Household & Health care |
| Yoosung Park | Case study for Water Footprint of the Shampoo in Korea |
| Tatsuo Hishinuma | Potential for Greenhouse Gases Mitigation at a Typical Roughage Production System in the Japanese Dairy System |
| | Batik Life Cycle Assessment Analysis (LCA) for Improving Batik Small and Medium Enterprises (SMEs) Sustainable Production in Surakarta, Indonesia |
| Ghita Yoshanti Syahrul | A Life Cycle Assessment Study of Single-Use Cups as Packages of Tea Soft Drinks in Taiwan |
| Sheng-Lung Lin Yasunari Matsuno | |
| | Estimation of electricity consumption and global warming potential in Internet in Japan Quantification of the Greenhouse gas (GHG) emission of a product service system (PSS) based on the uncertainty analysis – A case study of the lithium iron phosphate battery of a golf cart |
| Jong-Seok Lee | |
| Min-Hyeok Lee | Uncertainty Analysis of the Greenhouse Gas Emissions in the Feedstuff Production stage of the Beef Cattle Farming - case study |
| Tamas Ivancsy | Analysis of the Energy Consumption of Building Automation Systems |
| Akifumi Nakao | Design and evaluation of low carbon strategy for restructuring sewage sludge and municipal waste treatment facilities under population decline: A case study of Wakayama City, Japan |
| Kazue I. Takahashi | Environmental Effects on Biodiversity of Solar Power Facilities |
| Lei Zhang | Research on Evaluation Index System and Comprehensive Evaluation of Typical Eco-industrial Parks |
| New energy system and tec | |
| Takuya Adachi | Study of the Light Receiving Characteristics of a Plant Shoot Model by Simulating the Evolutionary Process of a Tree |
| Katsuaki Sato | Design of an Optimal Energy System for an Isolated Island (Eco-Island) in a Cold Region in Japan |
| Yuta Utsugi | Study of the Optimal Distribution of Wind and Solar Farms in Hokkaido Island using Genetic Algorithm |
| Florencia Ines Venier | Analysis of the Energy Sector in Argentina: Exploring the Potential of Biogas Production |
| Masamitsu Takabatake | Development of a Small Temperature Difference Generator Based on the Energy Storage Characteristics of a CO2 Hydrate |
| Daisuke Mikawa | Modeling and Load Response Characteristics of a Gas-hydrate Power Generation System |
| Kyosuke Ishikawa | Investigation of the Basic Characteristics of a CO2 Hydrate Using Plate Type Heat Exchangers |