

# EcoDesign2023 Poster Session

Thursday, November 30, 2023: 12:00-14:00 JST (Tempyo Hall Lobby)

Poster number	Title	Authors	Affiliations
[P1] OS: Hitachi-AIST Cooperative Research on Circular Economy			
[P1-1]	Hitachi-AIST Cooperative Research on Circular Economy - Overview of Hitachi-AIST Cooperative Research on Circular Economy	*Katsumasa Miyazaki (1), Masahide Ban (3), Ippei Kono (3), Osamu Hoshino (3), Ken-ichi Miyamoto (2), Shohei Terada (1), Keiji Masui (1)	1.Hitachi-AIST Circular Economy Cooperative Research Laboratory, National Institute of Advanced Industrial Science and Technology, Japan, 2.AIST Solutions, Japan, 3.Hitachi, Ltd., Japan
[P1-2]	Hitachi-AIST Collaborative Research on the Circular Economy - Grand Design to Embody Future Vision of a Circular Economy Society and its Pathway -	*Masahide Ban (1), Keiji Masui (2), Shinichiro Morimoto (2), Masahiro Ito (1), Shohei Terada (1), Katsumasa Miyazaki (1)	1.Hitachi, Ltd., Japan, 2.Hitachi-AIST Circular Economy Cooperative Research Laboratory, National Institute of Advanced Industrial Science and Technology, Japan
[P1-3]	Hitachi-AIST Cooperative Research on Circular Economy - Development of a Digital Solution for Realizing both of Circular Economy and Carbon Neutrality	*Ippei Kono (1), Yoshiyuki Furukawa (2), Masayuki Oyamatsu (1), Keiji Masui (2), Shohei Terada (2), Katsumasa Miyazaki (2)	1.Hitachi, Ltd., Japan, 2.Hitachi-AIST Cooperative Research Laboratory on Circular Economy, National Institute of Advanced Industrial Science and Technology, Japan
[P1-4]	Hitachi-AIST Cooperative Research on Circular Economy - Planning Standardization Strategies and Their Implementation -	*Osamu Hoshino (1), Akira Nakabayashi (2), Koshi Kamigaki (3), Yoshiyuki ichihashi (1), Keiji Masui (4), Shohei Terada (4), Katsumasa Miyazaki (4)	1.Hitachi, Ltd., Japan, 2.AIST Solutions, Japan, 3.National Institute of Advanced Industrial Science and Technology, Japan, 4.Hitachi-AIST Cooperative Research Laboratory on Circular Economy, National Institute of Advanced Industrial Science and Technology, Japan
[P2] Life Cycle Sustainability Assessment			
[P2-1] [E]	Life Cycle Assessment of Nuclear Power Plant Decommissioning - A Study on First Nuclear Power Plant	*Shu-Mei Chien (1)	1.Pacific Engineers & Constructors, Ltd., Taiwan
[P2-2] [E]	Environmental and Economic Assessment Towards the Utilization of CCUS Technology in Waste Incineration Facilities.	*Tianjiao Cheng (1), Andante Hadi Pandyaswargo (1), Hiroshi Onoda (1)	1.Waseda University, Japan
[P2-3]	Environmental Impact Assessment Study for Farmed Salmon	*Takuma Mori (1), Norihiro Itsubo (2), Hiroki Ookubo (1)	1.Tokyo City University, Japan, 2.Waseda University, Japan
[P2-4]	Carbon Footprint of Tourism Industry in G20 Using Tourism Satellite Accounts.	*Akihiko Tsutsumi (1), Norihiro Itsubo (1), Ryuzo Furukawa (1)	1.Tokyo City University, Japan
[P2-5]	A Study on Calculating the Carbon Footprint of Pork from Cradle to Distribution in Korea	*Yoosung Park (1), Sungmo YEON (1), Jeong-In Kwon (1), Kyu-Hyun Park (2)	1.H.I.Pathway Co., Ltd., Korea, 2.Kangwon National University, Korea
[P2-6]	Dynamic Assessment of Carbon Footprint using Factory IoT and Sensing	*Takahiro Hashimoto (1), Hiroki Ookubo (1), Teruo Oohashi (2), Norihiro Itsubo (3)	1.Tokyo City University, Japan, 2.LEXER RESEARCH, Japan, 3.Waseda University, Japan
[P2-7]	Carbon Footprint of Alternative Meat: A Comparative Study on Plant-based and Conventional Meat	*Nichole Eunice Yanson Lalas (1), Harlene Baron Cardos (2), Atsushi Izumi (2), Koji Ochiai (2), Norihiro Itsubo (3), Hiroki Okubo (1)	1.Tokyo City University, Japan, 2.DAIZ Inc., Japan, 3.Waseda University, Japan
[P2-8]	Estimation of Carbon Footprint of Osaka Expo in 2025	*Ryusei Murata (1), Ryuzou Furukawa (1), Norihiro Itsubo (2)	1.Tokyo City University, Japan, 2.Waseda University, Japan
[P2-9]	LCA for Circular Business Model – Five Step Method and Experiences from Norway	*Lars Gunnar Furelid Tellnes (1,2), Anna-Lena Joniksen (1), Hong Wu (1)	1.Østfold University College, Norway, 2.Technical University of Cartagena, Spain
[P2-10]	Environmental and Economic Benefits of Remanufactured Automatic Transmissions	Hwan Ho Choi (1), *Jae Soon Kim (1), Youngwoon Kim (1), Jae Hak No (1), Yong Woo Hwang (1), Hong-Yoon Kang (1)	1.Inha University, Korea

[P3] Sustainable Product and Process Design			
[P3-1]	Regionally Comparison of Attachment Strategies for Designing Long Life Products	*Takeru Ibi (1), Hidenori Murata (1), Hideki Kobayashi (1)	1.Osaka University, Japan
[P3-2]	Environmentally Conscious Light-Weight Design and Fabrication with Continuous Cellulose Nanofiber String in Additive Manufacturing	*Toshitake Tateno (1)	1.Meiji University, Japan
[P3-3]	Sustainable Food Packaging Design and Guideline Development: A Case Study for Drip Coffee Packaging	*Ching-Tuan Su (1), Tseng-Ping Chiu (1), Wei-Hsuan Hsu (1), Hsin-Tien Lin (1), Eri Amasawa (2)	1.National Cheng Kung University, Taiwan, 2.The University of Tokyo, Japan
[P3-4] [E]	Design of Rice Koji Fermentation Kit to Promote Environmental Education and Microorganism Awareness in Japan	*Keiko Baba (1), Kazutoshi Tsuda (1), Tat Hing Alex Ho (1)	1.Kyoto Institute of Technology, Japan
[P3-5] [E]	Verification of Operational Effect of Solar-Powered System for Mobile Off-grid Architecture	*Satoko Nasu (1), Shota Tajima (2)	1.Independent Scholar (Former Chiba University), Japan, 2.Chiba University, Japan
[P3-6]	The Study of Electric Vehicle Charging Station Using Data Envelopment Analysis	*Tsai Chi Kuo (1), Kai-Po Chang (1), Yi-Fong Chen (1)	1.National Taiwan University of Science and Technology, Taiwan
[P3-7]	Analysis of the Effectiveness of Using an Automated Ordering System to Reduce Food Loss	*Tomoya Hachiman (1), Kazuhiko Okamoto (2), Norihiro Itsubo (3), Hiroki Ookubo (1)	1.Tokyo City University, Japan, 2.sinops.inc, Japan, 3.Waseda University, Japan
[P3-8] [E]	Readiness Status of Smart Waste Collection and Processing Technologies for Plastic Waste Recycling	*Chaoxia Shan (1), Andante Hadi PANDYASWARGO (1), Hiroshi ONODA (1)	1.Waseda University, Japan
[P3-9] [E]	Development of an Ideal Training Dataset for Visual Analysis-based Waste Sorting Robot: An Experiment with Mixed-construction Waste	*Tianhao Cheng (1), Hao Hu (2), Andante Hadi Pandyaswargo (1), Hiroshi Onoda (1)	1.Waseda University, Japan, 2.EII, Inc., Japan
[P3-10] [E]	Development of Internal Audit Process to Obtain EPD Certifications in Response to Ecodesign Regulations	*Yongjin Lee (1), Hanbi Kim (1), Nohhyun Lim (1)	1.Institute of Global Sustainability Certification, Korea
[P4] Strategic Analysis for Circular Economy and Zero-Emission Society			
[P4-1]	Development of Solar Panel Power Generation Prediction Model Using Image Analysis and Deep Learning	*Naoki Nishitani (1), Tomonori Honda (2), Norihiro Itsubo (3), Hiroki Ookubo (1)	1.Tokyo City University, Japan, 2.National Institute of Advanced Industrial Science and Technology, Japan, 3.Waseda University, Japan
[P4-2]	Research on Regional Utilization of Mobile Off-Grid Architecture	*Shota Tajima (1)	1.Chiba University, Japan
[P4-3] [E]	Organization of Integrated Strategic Elements in Urban and Regional Management using SDG Local Indicators and Fiscal Expenditure Data	*Yuki Shiga (1,4), Atsuko Hanashima (2), Lisa Ito (1), Yasuko Kitamoto (3), Masato Miyata (4), Akihiro Tokai (1)	1.Osaka University, Japan, 2.Osaka Sangyo University, Japan, 3.Osaka City Waterworks Bureau, Japan, 4.Mitsubishi UFJ Research and Consulting Co., Ltd. Japan
[P4-4]	Analysis of Reusable Cup Rental System through Cost-Benefit Method: The Case of GoodToGo in Taiwan	Christopher Widjaja (1), Cheng-Ju Hsu (1), *Hsin-Tien Lin (1)	1.National Cheng Kung University, Taiwan
[P4-5]	A Study of Changes in the Japanese Used Auto Parts Market in the Wake of the COVID-19, Russia, Ukrainian War	*Sosho Kitajima (1), Hiroshi Onoda (1)	1.Waseda University, Japan
[P4-6]	The Reduction Potential of Global Warming and Economic Benefits by Introducing eHighway in Japan	*Yutaro Maeda (1), Akihiro Yoshimura (1), Yasunari Matsuno (1)	1.Chiba University, Japan
[P4-7]	Impact of Climate Change on Water Use in Yokohama City	*Akio Onishi (1)	1.Yokohama City University, Japan

[E]: Included in the E-book published by Springer after the symposium

Presenting authors are marked with \*.