

Poster Session Program

A: Water and Soil Management	
P-1	Revegetation of tin mining land in Belitung Island, Indonesia Hirmas Fuady Putra · Achmad Sjarmidi · Yasushi Mori
P-2	Linear macropore application to reduce surface runoff from subtropical sugarcane fields Yasushi Mori · Eisei Morioka · Thanh Long Bui · Kazutoshi Osawa · Akira Hoshikawa
P-3	The application of fine soil particles to control soil erosion in degraded soil areas Thanh Long Bui · Yasushi Mori
P-4	Soil Water Retention Curve Improvement by Cellulose Nano-Fiber in the Effects of Application Rates, Drying Temperature, Soil, and Water Types An Thuy Ngo · Yasushi Mori
P-5	Effects of paddy soil management on greenhouse gas emissions Kota Hamaoka · Yasushi Mori
P-6	CO ₂ Gas flow in an Aggregated Soil under the Shaft Tillage Cultivation Method Koharu Tasaki · Ieyasu Tokumoto · Shujiro Komiya · Kosuke Noborio · Yukiko Mori
P-7	Effect of water management during rice ripening period on rice grain protein content and quality Kazuhiro Nishida · Yushi Matsumoto · Tadashi Tsukaguchi · Shuichiro Yoshida
P-8	Which hydraulic conductance, soil or plant, controls root water uptake of soybean cultivated in rotational paddy under humid climate? Shigehiro Kubota · Kazuhiro Nishida · Shuichiro Yoshida
P-9	Impact Assessment of Sub-surface Irrigation Systems Using UAV and Soil Sensors Taiki Sunazuka · Tadao Aoda
P-10	Secondary consolidation considering clay structure Tenyu Yamaguchi · Tadao aoda
P-11	How to assess effects of CCS by biochar application on soil erodibility Sotaro MAKINO · Shoichiro HAMAMOTO · Taku NISHIMURA
P-12	Application of GeoWEPP to two watersheds with different coverages of cabbage fields in Tsumagoi, Japan Hiroyuki Yamada · Masahito Banba · Nobuyuki Kanuma · Yuta Ise · Yusuke Takata · Shoichiro Hamamoto · Taku Nishimura
P-13	Differences in Microbial Community Structure and Physico-chemical properties under Organic and Conventional Agricultural Soil Seyoon Jung · Eunmi Hong
P-14	Simulation of Soil Moisture Content in Street Tree Using RZWQM Ki-eun Jeong · Eun-mi Hong · Jae E Yang · Hyuck-soo Kim
P-15	Prediction on soil water content and density by deep neural network Donggeun Kim · Taejin Kim · Jihun Jeon · Sangbeom Jo · Younghwan Son
P-16	Development of ISMN Method Application Program for Quality Control of Soil Moisture Measurement Data Hyung Jin Shin · Jae Nam Lee · Chang Young Ha · Gyu Sang Lee · Kyoung Jae Lim
P-17	Groundwater Salinity in Drylands of Northern India K. Koda · J. Onishi · K. Matsui · G. Lee · G. Yadav · R. Yadav · Neha · P. Sharma
P-18	A Study on Spatio-Temporal Changes in Soil Salinity in Tidal Reclaimed Land Jiyeon Jeong · Minhyuk Jeung · Jina Beom · Minkyong Park · Kwangsik Yoon
P-19	Estimation of DOC concentrations of a rural stream during the unaged period Minkyong Park · Jina Beom · Minhyuk Jeung · Jiyeon Jeong · Kwangsik Yoon
P-20	Synoptic monitoring along stream for tracing critical source area Jina Beom · Jinyong Eom · Minhyuk Jeung · Kwangsik Yoon · Dongho Choi · Jaewoon Jung
P-21	Isotope balance-based simulation for oxygen and hydrogen stable isotope compositions of paddy water Yumi Yoshioka · Kimihito Nakamura · Takao Nakagiri · Hiroshi Takimoto · Hidekazu Yoshioka
P-22	Optimization of Storage Tank Installation Points for Upland Water Supply using Genetic Algorithm Rokgi Hong · Jinseok Park · Seongju Jang · Hyeokjin Lee · Inhong Song
P-23	Application of DSSAT crop model for rice cultivation and precision irrigation Hsiang-Ling Yin · Shao-Yiu Hsu · Zhi-Wei Yang · Li-yu Daisy Liu
P-24	Assessing the surface-groundwater interaction using a coupled SWAT-MODFLOW model-A case study of Zhuoshui River basin in Taiwan Min-Jing Li · Li-Chi Chiang
P-25	Effectiveness of Oversampling in Precipitation Downscaling Using Deep Learning Takeyoshi Nagasato · Kei Ishida · Daiju Sakaguchi
P-26	Higher accuracy of groundwater modeling using deep learning methods Daiju Sakaguchi · Kei Ishida · Nagasato Takeyoshi

P-27	Deep Reinforcement Learning for Conjunctive Use of Surface Water and Groundwater Hsiang-Hao Chan · Ming-Che Hu
P-28	Spectrum Network Optimization Analysis of Water Resources Systems Connection Chao-Ting Lee · Ming-Che Hu
B: Disaster Risk Management and Adaptation	
P-29	Date-based Drought Criteria of Agricultural Reservoir Analysis in Korea Chang Young Ha · Hyung Jin Shin · Jae Nam Lee · Gyu Sang Lee
P-30	Detection of Damaged Areas in Concrete Structure using Machine Learning of Digital Images Yuma Shimamoto · Kazuma Shibano · Tetsuya Suzuki · Shogo Michishita · Hiroyuki Nishida · Kazunari Iizuka
P-31	Development of Newly High-Performance Steel Sheet Pile for Construction of Irrigation and Drainage Infrastructure Norihiro Otaka · Yuji Fujimoto · Yukio Abe · Takeo Harada · Isamu Asano · Tetsuya Suzuki
P-32	Non- Destructive Identification of Water Hammer in Service Pipeline with Un-Steady Flow Conditions using Acoustic Emission Energy Parameter Tetsuya Suzuki · Masaomi Kimura · Yohei Asada · Toshiaki Iida · Yuma Shimamoto · Kazunari Inaba
P-33	On-Site Surface Damage Detection of Concrete Headworks by Laser Scan Method Kazuma Shibano · Nadezhda Morozova · Yuji Ito · Yuma Shimamoto · Atsushi Chiyoda · Yuki Tachibana · Hisaya Ito · Tetsuya Suzuki
P-34	Visualization and Quantification of Frost Damage in Service Concrete Head Works by X-ray CT and Acoustic Emission in Core Test Yuji Ito · Nadezhda Morozova · Kazuma Shibano · Yuma Shimamoto · Tetsuya Suzuki
P-35	Detection of Water Leakage in Service Pipeline System by Acoustic Emission with Time-Frequency Analysis Kazuki Kitsu · Taiki Hagiwara · Yohei Asada · Masaomi Kimura · Toshiaki Iida · Yuma Shimamoto · Tetsuya Suzuki
P-36	Watershed Flood control in Tottori Prefecture: An Introduction to the Demonstration Exhibition of a Rice Paddy Dam Yuri Yamazaki · Takashi Ishida · Takashi Takeuchi · Katsuyuki Shimizu
P-37	Consideration for the implementation of a rice paddy dam in Oro River Basin, Tottori, Japan Katsuyuki Shimizu · Yuri Yamazaki
P-38	Evaluation of Seismic Hydrodynamic Pressure Conditions in Irrigation Pipeline System by Numerical Analysis Taiki Hagiwara · Takashi Ohkubo · Hitoshi Nagumo
C: Regional Resource Management and Rural Planning	
P-39	Development of field-specific discrimination method for various paddy rice cultivation in Asia Shangyu Chen · Takanori Nagano · Natsuki Yoshikawa
P-40	Hillside Irrigation Canal Feature Extraction using Layout Charts Shinichi Takeshita · Daiki Matsuoka · Naotaka Umeda · Yushi Tsuda
P-41	Evaluation of Supplied Time Detection Algorithm on Connected Agricultural Reservoir Minhyuk Jeung · Jina Beom · Minkyong Park · Jiyeon Jeong · Kwangsik Yoon
P-42	Gauging the Synergetic Influences of Climate Change and Farming Practices on the Performance of Agricultural Reservoirs Mirza Junaid Ahmad · Kyung Sook Choi
P-43	Development of Remote Sensing Methods for Crop Identification and Salinity dynamics in Arid River Basin Haochen Liu · Takanori Nagano · Akihiko Kotera · Kenji Tanaka
P-44	Remote Sensing Image Applied Deep Learning on Agricultural Land Crop Classification Li Chen · Hsien-Cheng Lin · Yi-Ju Tung · Jia-Haur Jeng · David Chien
P-45	Improvement of Soil Physical and Chemical Properties by Planting Works to Irrigation Facilities at Paddy Field in Ghana DAN Haruyuki · ADACHI Tadashi · OKI Yoko · AGODZO Sampson · ADZRAKU Han
P-46	Water circulation and water quality in a paddy field area after farmland consolidation in Hokkaido, Japan Naoko Koshiyama · Takeshi Ootsu
P-47	Transboundary Water-Food Nexus based on Physical-Virtual Water Flows via Food Trade Network Sanghyun Lee · Makoto Taniguchi · Naoki Masuhara · Seung-Hwan Yoo · Yun-Gyeong Oh
P-48	Difference in Tensile Strength of Rice Straw Single Fibers and Fiber Bundles Toma Tsubota · Yuma Shimamoto · Tetsuya Suzuki
P-49	Estimation of Corrosion Distribution in Service Steel Sheet Pile by Spatial Statistics with the Kriging method Seika Yokobori · Taiki Hagiwara · Yuma Shimamoto · Tetsuya Suzuki
D: ICT and Smart Tech. in Agriculture and Ecosystem Management	
P-50	Evaluation of the effect of cold damage in 1993 on paddy rice yield in Kumamoto Prefecture, Japan Yuta Hamaguchi · Kei Ishida

P-51	Effect of temperature and rainfall on growth of persimmon fruit Atsushi Okayama · Atsushi Yamamoto · Tsumugu Kusudo · Masaomi Kimura · Kei Awano · Yutaka Matsuno
P-52	Flow condition analysis of a portable fishway at a steep slope section in agricultural channels to reduce the load of fish during upstream migration and rest Kei Kobayashi · Naoki Takahashi · Kazuyoshi Nakata
P-53	Assessment of River Environmental flow in Namgang Using PHABSIM Yeonjung Noh · Eunmi Hong · Yoonseok Kim · Seongjoon Kim · Jinseok Park
P-54	Measurement of river flow discharge using a combination of drone boat for bathymetric measurement and image analysis for flow velocity measurement Kento Otani · Yoichi Fujihara · Shunsuke Chono · Eiji Ichion · Yuki Nakagawa
P-55	Water Saving Device "ITAOTOSHI" OZAWA Yoshihiro
P-56	Development of a Weighing Lysimeter with a Water Supply-Drainage Pumping System Fadhil Noor · Ieyasu Tokumoto · Rin Kanda · Kenta Sakimura · Masaru Sakai
P-57	Farmer Field School: Perception using Social Media Application in Rice Farming Zakirah Othman · Federica Agnese · Wan Ahmad Jaafar bin Wan Yahaya