

No	Title	First author		Co author		Corresponding	
IWSS-P1-01	Change of benthic environment by covering of fly ash-cement mixture along the passage of time	Kyeongmin Kim	Pukyong National University	Sung Hoon Ryu Sinya Nakashita In-Cheol Lee	Pukyong National University Hiroshima University Pukyong National University	Kyunghoi Kim	Pukyong National University
IWSS-P1-02	Measurement of lead in seawater using gold nanoparticles modified screen printed carbon electrode	Yong-Gu Lee	Sungkyunkwan University			Am Jang	Sungkyunkwan University
IWSS-P1-03	Analysis of optimum mixture ratio of the granulated coal ash for the remediation of coastal sediment	Gyeong Seck	Pukyong National University	Shinya Nakashita In-Cheol Lee Jong-Ryol Kim	Hiroshima University Pukyong National University Korea Fisheries Resources Agency	Kyunghoi Kim	Pukyong National University
IWSS-P1-04	Investigation of air nano bubbles effects for fouling control in pressure driven membrane process	H.N.P Dayarathne	Sungkyunkwan University			Am Jang	Sungkyunkwan University
IWSS-P1-05	Fouling control in forward osmosis membrane using free-radical generated from collapsing of Micro-Nano Bubbles (MNBS)	Rizwan Khan	Sungkyunkwan University			Am Jang	Sungkyunkwan University
IWSS-P1-06	Analysis of continuing Cesium release to the sea from the Fukushima Dai-ichi nuclear power plant until 2013	Byung-Il Min	Korea Atomic Energy Research Institute	Sora Kim ByungMo Yang Kyung-suk Suh	Korea Atomic Energy Research Institute Korea Atomic Energy Research Institute Korea Atomic Energy Research Institute	Kihyun Park	Korea Atomic Energy Research Institute
IWSS-P1-07	Simulation of radioactive cesium transfer in the Fukushima coastal marine biota using a semi-dynamic food chain model	Byung-Il Min	Korea Atomic Energy Research Institute	Kihyun Park ByungMo Yang Kyung-suk Suh	Korea Atomic Energy Research Institute Korea Atomic Energy Research Institute Korea Atomic Energy Research Institute	Sora Kim	Korea Atomic Energy Research Institute
IWSS-P1-08	A study on withering of Salix subfamilies communities in Namgang-Dam reservoir by long term inundation	Hye-Run Jung	Gyeongnam National University of Science and Technology			Ki-Heung Kim	Gyeongnam National University of Science and Technology
IWSS-P1-09	Safety assessment of drinkingwater quality management according to membrane filtration operating types on membrane resistance based of raw water changes	Yongsoo Lee	Hanyang University	Hyungsoo Kim Ha-Young Kang Keumryul Ha Muhammad Irfan	Sungkyunkwan University Hanyang University Daelim Industrial Co., Ltd. Hanyang University	Jong-Oh Kim	Hanyang University
IWSS-P1-10	A study on the control of membrane fouling using circulation coagulation inside pipe in drinking water treatment process	Chang-Ha Lee	Sungkyunkwan University	Hyungsoo Kim Ji-Young Moon Jihoon Kim	Sungkyunkwan University Korea water, Water Resources Corporation Sungkyunkwan University	Hyungsook Kim	Suwon University
IWSS-P1-11	Optimization of pilot scale plug-flow reactor for industrial wastewater containing 1,4-dioxane	Sung-su Lee	Sungkyunkwan University	Du Ri Park Soo kyo Shin Kang Hoon Lee	Sungkyunkwan University Sungkyunkwan University Sungkyunkwan University	Ick Tae Yeom	Sungkyunkwan University
IWSS-P1-12	Field observation and numerical modelling on the hydrodynamics behind a submerged breakwater	Jinhoon Kim	Kangwon National University			Yeon Myeong Jeon	Gyeongsang National University
IWSS-P1-13	Ultrafiltration and reverse osmosis membrane fouling control by the ozonation-coagulation process in treated wastewater reuse process	Mingue Kim	Sungkyunkwan University	Geonyoub Kim Jihoon Kim Wonseok Chang	Sungkyunkwan University Sungkyunkwan University Korea District Heating Corp.,	Hyungsoo Kim	Sungkyunkwan University
IWSS-P1-14	A study on scale determination of FO-RO hybrid process based on the FO recovery rate	Geonyoub Kim	Sungkyunkwan University	Junwon Jeong Jihoon Kim Mingue Kim	Sungkyunkwan University Sungkyunkwan University Sungkyunkwan University	Hyungsoo Kim	Sungkyunkwan University
IWSS-P1-15	Biodegradation of 1,4-dioxane by mixed culture and the influence of the additional carbon sources	Kang Hoon Lee	Sungkyunkwan University	Soo Kyo Shin Du Ri Park Sung Soo Lee	Sungkyunkwan University Sungkyunkwan University Sungkyunkwan University	Ick Tae Yeom	Sungkyunkwan University
IWSS-P1-16	Relationships among service quality, customer satisfaction, loyalty and perception of safety at the water theme parks	Url Ro Han	Yonsei University	Jee Hoon Han Kwang Won Park Min Jeong Kim	Yonsei University Yonsei University Hankuk University of Foreign Studies	Chul Won Lee	Yonsei University,
IWSS-P1-17	Analysis on activities and expenditures of marine leisure tourism in Korea	Jang Won Hong	Korea Maritime Institute			Jeong-In Chang	Korea Maritime Institute
IWSS-P1-18	Environmental-friendly vitalization strategy around dam by governance in Korea	Il-hwan, Seo	Chonbuk National University			Gyumin Lee	Sungkyunkwan University
IWSS-P1-19	An introduction to Aquatic Environment Life-saving Integrated System	Dae Young Kang	Lifesaving Society Korea			Jooyong Lee	Sungkyunkwan University

IWSS-P2-01	Numerical simulation on local score at Samsan Bridge piers in Korea	Sun-Kyu Park	Sungkyunkwan University	Jung Lyul Lee Jooyong Lee	Sungkyunkwan University Sungkyunkwan University	Sungnam Hong	Sungkyunkwan University
IWSS-P2-02	New priority ranking algorithm for the deteriorated coastal bridges considering network level	Sungnam Hong	Sungkyunkwan University	Jongho Park Sun-Kyu Park	Sungkyunkwan University Sungkyunkwan University		
IWSS-P2-03	Development and application of probabilistic prediction model of storage to decision-making support for water management	Minsung Kwon	Sungkyunkwan University	Kyung Soo Jun	Sungkyunkwan University	Tae-Woong Kim	Hanyang University
IWSS-P2-04	Modelling of East Sea storm waves in November 2015	Weon Mu Jeong	Korea Institute of Ocean Science and Technology	Sang-Ho Oh Kyung-Ho Ryu	Korea Institute of Ocean Science and Technology Korea Institute of Ocean Science and Technology	Han Soo Lee	Hiroshima University

IWSS-P2-05	A proposal for criterion of sudden high waves that cause marine accidents and property damage on the East coast of Korea	In-Chul Kim	Seoul National University	Jihee Oh	Seoul National University	Kyung-Duck Suh	Seoul National University
IWSS-P2-06	Designation method of dynamic intentional grounding zone in coastal region for passenger ship refuge in uncontrolled marine accident	Dan-Bee Hong	Korea Institute of Ocean Science and Technology	Sun-Hwa Kim	Korea Institute of Ocean Science and Technology	Chan-Su Yang	Korea Institute of Ocean Science and Technology
IWSS-P2-07	Simulation of storm surge and wave on the South-eastern coast of Korea during typhoon Sanba using a tide-surge-wave model	Jin-Hee Yuk	KISTI			Junghyun Park	KISTI
IWSS-P2-08	Structural review of artificial reef block using fluid-structure interaction method	Choonghyun Kang	Pusan National University	Yongmyung Park	Pusan National University	Taewan Kim	Pusan National University
IWSS-P2-09	A new unified numerical model for surge in the Norwestern Pacific	Sok Kuh Kang	Korea Institude of Ocean Science & Technology	Kyung Tae Jung Kyeong Ok Kim Eun Jin Kim Yoon Ho Seung	Korea Institude of Ocean Science & Technology Korea Institude of Ocean Science & Technology Korea Institude of Ocean Science & Technology Geo System Research Corporation		
IWSS-P2-10	Swell propagation caused by typhoon to the Yellow and South Seas	Kyeong Ok Kim	Korea Institute of Ocean Science & Technology	Jin-Hee Yuk Kyeong Tae Jung	KISTI Korea Institute of Ocean Science & Technology	Byung Ho Choi	Sungkyunkwan University
IWSS-P2-11	Optimal methods for meteotsunami arrival time to analyze propagation direction in the Yellow Sea	Myung-Seok Kim	Inha University	Hyunsu Kim Hyun-Min Eom Yoo-Keun Kim	Pusan National University Korea Meteorological Administration Pusan National University	Seung-Buhm Woo	Inha University
IWSS-P2-12	Optimal location analysis of seawater desalination plants through big data image processing	Jihoon Kim	Sungkyunkwan University	Hong Sik Yun Hyungsoo Kim	Sungkyunkwan University Sungkyunkwan University	Taewoo Kim	Sungkyunkwan University
IWSS-P2-13	Algae inflow monitoring using satellite images for the process control of the Gijang desalination plant	Moonsoo Song	Sungkyunkwan University	Taewoo Kim Hong Sik Yun	Sungkyunkwan University Sungkyunkwan University	Jaemyoung Cho	Songwon University
IWSS-P2-14	Prediction of sand beach variations by coupling of hydrodynamic and extreme morphological models	Maeng-Jin Kim	Kunsan National University	Hyeon-Jeong Kim Sung-Hyun Kim	Kunsan National University Kunsan National University	Seung-Won Suh	Kunsan National University
IWSS-P2-15	Applicability of multiple submerged narrow-crested breakwaters for reduction of mean water level in rear side and flow control	Dong Soo Hur	Gyeongsang National University	Won Chul Cho Jong Sung Yoon In Ho Kim	Chung-Ang University Inje University Kangwon National University	Woo Dong Lee	Gyeongsang National University
IWSS-P2-16	Numerical analysis on energy dissipation of tsunami through vegetation zone	Yeon Myeong Jeong	Gyeongsang National University	Jong Ryul Park	National Disaster Management Research Institute	Ho Seong Jeon	Korea Institute of Civil Engineering and Building Technology
IWSS-P2-17	Thermophysiological information for harbor workers safety in summer	Jinah Yun	Pusan National University	Yoo-Keun Kim	Pusan National University,	Mi-Kyoung Hwang	Pusan National University,
IWSS-P2-18	Hydraulic experiments of sinkable floating storm surge barrier for the various wave acting	Jae-Seol Shim	Korea Institute of Ocean Science & Technology			Jong-Joo Yoon	ChungNam Institute
IWSS-P2-19	A study on the ground fixing for marine landfills	Woochang Song	Kangwon National University	Hongyoung Kim	Kangwon National University	Dongseob Song	Kangwon National University
IWSS-P2-20	A study on rip current forecasting index of Haeundae Beach	Sahong Lee	Sungkyunkwan University	Dong Hee Kim	Sungkyunkwan University	Jung Lyul Lee	Sungkyunkwan University

IWSS-P3-01	Spatiotemporal analysis between sand transport and beach erosion	In Ho Kim	Kangwon National University	Jae-Seok Choi	Kangwon National University	Hyung-Seok Lee	Hanzhong University
IWSS-P3-02	Automatic extraction of rock boundary in seabed using multibeam echosounder backscatter data	Jae one Lee	Dong-A University	Hye won Choi	Dong-A University	Jae Kang Lee	Korea Land and Geospatial Informatix Corporation
IWSS-P3-03	The preliminary analysis for the cause of rapid sea level rise near Jeju Island	Chaewook Lim	Inha University	PyeongJoong Kim Kwang-Young Jung Eunil Lee	ARA Consulting & Technology Korea Hydrographic and Oceanographic Agency Korea Hydrographic and Oceanographic Agency	Seung-Buhm Woo	Inha University
IWSS-P3-04	Optimal methods for meteotsunami arrival time to analyze propagation direction in the Yellow Sea	Myung-Seok Kim	Inha University	Hyunsu Kim Hyun-Min Eom Yoo-Keun Kim	Pusan National University Korea Meteorological Administration Pusan National University	Seung-Buhm Woo	Inha University
IWSS-P3-05	Interaction between river discharge and storm surge for assessment of water safety around urbanized area	Dong-Hwan Kim	Pukyong national university	Heon-Tae Kim	Pukyong national university	Chang-ill Yoo	Pukyong National University
IWSS-P3-06	A review of secondary beach erosion damages rely on a delay in the construction of beach erosion countermeasures	Kyu-Tae Shim	Catholic Kwandong University	Bumshick Shin	Catholic Kwandong University	Kyu-Han Kim	Catholic Kwandong University
IWSS-P3-07	Dynamic observation for wave induced current using UAV-based photogrammetry	Bumshick Shin	Catholic Kwandong University	Yushin Ahn	Michigan Technological University		
IWSS-P3-08	Real scale experiments on evacuation ability along stairs during flooding	Joongu Kang	Korea Institute of Civil Engineering and Building Technology	Sung-Joong Kim Dojoon Jung	Korea Institute of Civil Engineering and Building Technology National Disaster Management Institute	Yonguk Ryu	Korea Institute of Civil Engineering and Building Technology

IWSS-P3-09	An approach of coastal vulnerability assessment considering urbanization and climate change	Gyumin Lee	Sungkyunkwan University			Kyung Soo Jun	Sungkyunkwan University
IWSS-P3-10	Efficiency of debris reduction devices on bridge pier	Sung-Joong Kim	Korea Institute of Civil Engineering and Building Technology	Jong-Tae Kim Joongu Kang	Korea Institute of Civil Engineering and Building Technology Korea Institute of Civil Engineering and Building Technology	Yonguk Ryu	Korea Institute of Civil Engineering and Building Technology
IWSS-P3-11	Experimental study on flood mitigation effects by detention basin	Hyung-Jun Kim	Korea Institute of Civil Engineering and Building Technology	Kwang-Seok Yoon Hoje Seong Yonguk Ryu	Korea Institute of Civil Engineering and Building Technology Korea Institute of Civil Engineering and Building Technology	Dong Sop Rhee	Korea Institute of Civil Engineering and Building Technology
IWSS-P3-12	Warning indexation of rip current vectors by a rose diagram	Dong Hee Kim	Sungkyunkwan University	Ki Chul Park Inchul Kim	Munchang Co., Ltd. Dongseo University	Jung Lyul Lee	Sungkyunkwan University
IWSS-P3-13	Evaluation of wind and wave simulations using different global reanalyses	Ki-Young Heo	Korea Institute of Ocean Science and Technology	Kwang-Soon Park Kicheon Jun	Korea Institute of Ocean Science and Technology Korea Institute of Ocean Science and Technology	Taemin Ha	Kangwon National University
IWSS-P3-14	Meteorological analysis of the sea fog in winter season on the Gyeonggi Bay, Yellow Sea : A case study for the 106-vehicle pileup on 11 February 2015	Yoo-Keun Kim	Pusan National University	Ho-Jae Lee Jang-Won Seo Yo-Hwan Choi	Pusan National University Korea Meteorological Administration Pusan National University	Hyunsu Kim	Pusan National University
IWSS-P3-15	A study of the comparative analysis on derivation of date-driven statistical model for sustainable coastal management	Jinah Kim	Korea Institute of Ocean Science & Technology				
IWSS-P3-16	The improvement of a particle tracking simulation using drift buoy data	Jung-Woon Choi	Korea Institute of Ocean Science & Technology	Kwang-Soon Park Ki-Young Heo	Korea Institute of Ocean Science & Technology Korea Institute of Ocean Science & Technology	Jin-Yong Choi	Korea Institute of Ocean Science & Technology
IWSS-P3-17	Application of velocity bunching model to estimate waveheight of ocean waves using multiple synthetic aperture radar data	Chan-Su Yang	Korea Institute of Ocean Science & Technology	Kazuo Ouchi	IHI Corporation		
IWSS-P3-18	Variability of wave-induced current considering wave-tide interaction in Haeundae	Hak Soo Lim	Korea Institute of Ocean Science and Technology	Hee Jun Lee Jae-Seol Shim Insik Chun	Korea Institute of Ocean Science and Technology Korea Institute of Ocean Science and Technology Konkuk University		
IWSS-P3-19	Monitoring and analysis of bacterial communities during a summer season on Gyeongpo Beach, Korea	Yoon Jeong Yeon	Sungkyunkwan University	In Ho Kim	Kangwon National University	Jung Lyul Lee	Sungkyunkwan University
IWSS-P3-20	Assessment of Coastal Vulnerability to typhoon in Korea	Tae-Soon Kang	GeoSystem Research Corp.	Hyeong-Min Oh Seok-Jae Kwon Jong-Sup Lee	GeoSystem Research Corp. Korea Hydrographic and Oceanography Agency Pukyong National University		

IWSS-P4-01	Numerical simulation of tsunami force acting on vertical walls	Minsang Cho	Myongji University	Sung Won Shin	Kangwon National University	Hyun-Doug Yoon	Myongji University
IWSS-P4-02	Development of automatic shoreline detection algorithm using KOMPSAT satellite data for monitoring of coastal erosion in the East Sea	Sun-Hwa Kim	Korea Institute of Ocean Science and Technology	Jae-Hoon Jeong	Korea Institute of Ocean Science and Technology	Chan-Su Yang	Korea Institute of Ocean Science and Technology
IWSS-P4-03	Numerical study of multi-level breakwater for wave energy utilization	Zhi Han	Ocean University of China	Hongda Shi	Ocean University of China	Zhen Liu	Ocean University of China
IWSS-P4-04	Evaluation of seabed classification using hyper-spectral data around the coastal area of Geoje Island, Korea	In-Tae Yang	Kangwon National University	Tri Dev Acharya Sunhui Sim Jae Kang Lee	Kangwon National University University of North Alabama Korea Land & Geospatial Informatics Corp.,	He Huang	Beijing University of Civil Engineering & Architecture
IWSS-P4-05	Evaluation of nautical chart adequacy in the coastal area around Incheon Bay using satellite imagery with AIS data	Jae-Young Roh	Pukyong National University	Moon-Seung Shin Yong-Cheol Suh	Kangwon National University Pukyong National University	Dong-Ha Lee	Kangwon National University
IWSS-P4-06	Convergence technique study of red-tide prediction in the littoral sea	Taewoo Kim	Sungkyunkwan University	Hong Sik Yun	Sungkyunkwan University		
IWSS-P4-07	Bathymetry prediction in shallow water outside of Saemankeum Seawall	Kwang Bae Kim	Gyeongnam National University of Science and Technology	Suk Bae Lee	Gyeongnam National University of Science and Technology		
IWSS-P4-08	Improvements of performance of SWAN to simulate diffraction of waves behind structures	Gun Hyeong Kim	Hanyang University	Myeong Hwan Jho	Hanyang University	Sung Bum Yoon	Hanyang University
IWSS-P4-09	Simulation of hydrodynamic variations near a flood-dominant estuarine harbor for safe navigation	Hyeon-Jeong Kim	Kunsan National University	Won-Kyung Park	Dae Young Engineering Corporation	Seung-Won Suh	Kunsan National University
IWSS-P4-10	A numerical model study on the wave and current control by coastal vegetation	Woo Dong Lee	Gyeongsang National University	Sung Won Shin Daniel Tomas Cox	Kangwon National University Oregon State University	Dong Soo Hur	Gyeongsang National University
IWSS-P4-11	Stern waves generated by random waves incident obliquely on a vertical wall	Choong Hun Shin	Hanyang University	Jong In Lee Sung Bum Yoon	Chonnam National University Hanyang University	Kyung-Ho Ryu	Hanyang University
IWSS-P4-12	Observation of wave spectrum under typhoon condition	Woo Jeong Sim	Kunil Engineering	Weon Mu Jeong Kyong-Ho Ryu	Korea Institute of Ocean Science & Technology Korea Institute of Ocean Science & Technology	Hyun-Doug Yoon	Myongji University

IWSS-P4-13	Characteristics of environmental factors for Reed of Jinudo in Nakdong Estuary	Sung Hoon Ryu	Pukyong National University			In-Cheol Lee	Pukyong National University
IWSS-P4-14	Abnormally high waves induced by typhoon Vongfong along the East Sea coast	Insik Chun	Konkuk University	Jae-Seol Shim	Korea Institute of Ocean Science and Technology	Hak Soo Lim	Korea Institute of Ocean Science and Technology
IWSS-P4-15	Tideland monitoring of South Korea's West coast with Landsat TM and MSS data from 1979 to 2010	Sunghwan Cho	Korea Land and Geospatial Informatix Copr.,	Yongmin Kim	Korea National Disaster Management Institute,	Yong Huh	Korea Land and Geospatial Informatix Copr.,
IWSS-P4-16	Temporal variability of the flow structure and thermal stratification according to river discharge in Yeongsan Lake	Jin Il Song	Inha University	Byung Il Yoon Jong Wook Kim	Inha University Inha University	Seung-Buhm Woo	Inha University
IWSS-P4-17	Coastal erosion monitoring of Yellow Sea shore line with image analysis on UAV images	Sunghwan Cho	Korea Land and Geospatial Informatix Copr.			Yong Huh	Korea Land and Geospatial Informatix Copr.
IWSS-P4-18	Topographic information of sand beach change using RTK-VRS surveying for beach safety management	Chang-ill Yoo	Pukyong National University				