

## List of Dissertation Abstract (Risk Management and Environmental Sciences)

Name	Supervisor	Title	Abstract
Yusuke HIRAI	Yoshihito TAKEDA	A study on Comparative methodologies among the Chemical Risk Assessments under the Chemical Management Laws and the related systems in Japan	Three methodologies were developed. i) a risk assessment classification method for each management measure under the chemical management laws in Japan, ii) a cross sectional method to compare the screening risk assessments, iii) a chronological method to compare risk assessments that contribute to the setting standard.
NINING PURWASIH	Naoya KASAI	ATMOSPHERIC CORROSION SENSOR BASED ON STRAIN MEASUREMENT WITH AN ACTIVE-DUMMY METHOD	This research describes the configuration of active dummy strain gauges and Fiber Bragg Grating sensors to reduce environmental noise during measurement, and the real environment condition using the developed atmospheric corrosion monitoring sensor and strain measurement circuit
Hongguan ZHANG	Tadahiro SHIBUTANI	STOCHASTIC ISOGEOMETRIC ANALYSIS (SIGA) METHOD FOR EVALUATION OF UNCERTAINTY IN SHAPE IN STRUCTURE	In this study, a new method is proposed that extend the classical deterministic isogeometric analysis into a probabilistic analytical framework in order to evaluate the uncertainty in shape, and aim to investigate a possible extension of IGA in the field of computational stochastic mechanics. Stochastic isogeometric analysis method for uncertainty in shape is developed by employing the geometric characteristics of the non-uniform rational basis spline and the probability characteristics of polynomial chaos expansions. The proposed method can accurately and freely evaluate problems of uncertainty in shape caused by the deformation of the structural model.
Anwar HOSSAIN	Hiroyuki MATSUDA	Antibiotics Contamination in Finfish and Shellfish Aquaculture of Bangladesh	Aquaculture is becoming a more focused industry, expanding very rapidly and produced more than doubled aquaculture production during the last decade in Bangladesh. However, aquaculture sectors are facing many problems due to different diseases particularly bacterial infections. To treat or to prevent infections, aquaculture farmers routinely used various kinds of antibiotics. Therefore, the present study for the first time investigated the antibiotics contamination in surface water of finfish and shellfish aquaculture and reported the occurrence, distribution, ecological and resistance risks of antibiotics in the surface water of freshwater finfish and brackish water shellfish aquaculture in Bangladesh.