

List of Dissertation Abstract (Innovation Management and Environmental Sciences)

Name	Supervisor	Title	Abstract
Gyun Ho KIM	Hiroki HONDO	The regional employment and environment impact from decommissioning of photovoltaic and wind power plants	The present study aims to estimate regional employment and CO ₂ emissions from decommissioning of photovoltaic and wind power plants. Using hybrid method that combines process and input-output analyses, the regional employment and CO ₂ emission is calculated based on an average decommissioning cost, which is estimated from the detailed construction cost data for different types of power plants.

Xuan YAN	Daisuke NARUMI	Quantitative evaluation of the influence of outdoor temperature change on human health-About infectious disease and photochemical oxidant -	I evaluated the effects of air temperature on human health using DALY. Firstly, I calculated temperature sensitivity in recent years about infectious disease, and I considered the comparison with the past temperature sensitivity. Secondly I clarified the temperature sensitivity of the acute effects of photochemical oxidant. Thirdly I clarified temperature sensitivity of chronic influence by photochemical oxidant. Finally, I evaluated Overall health effects of temperature change.
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<p>Shangke WANG</p>	<p>Masanori YASUMOTO</p>	<p>Exploring How to Shape Knowledge to Improve the Effectiveness of Innovations under Consensus-based Standardization : The Analysis of the Citation Networks from Standard Essential Patents to Proprietary Patents in the Mobile Telecommunication Sector</p>	<p>The article attempts to explore how firms can shape knowledge to produce effective innovations under standardization. More specifically, by examining the process to encourage technology learning and innovation with the data of SEPs (standard essential patents) and Non-SEPs of the mobile telecommunication sector, this article explores how firms shape knowledge to create technologies frequently cited. The result shows that by the citations of peripheral technologies as well as core ones, firms can shape high densities of system knowledge to improve the effectiveness of innovations while expanding their knowledge base in volume. The result is expected to expand the debates of standard setters' knowledge management and provide managerial implications for practitioners.</p>
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Yanjia CHU	Masanori YASUMOTO	The Survival Analysis of SMEs in Chinese Game Industries - Focus on Niche Robustness in the Business Ecosystem-	Content industry is different from the traditional industry such as manufacturing. The content industry is mainly concerned with product development, advertising and distribution. And it has two aspects: manufacturing products and artistic creations. To explain the characteristic of the content industry, we classified game software into two categories: technology-driven game and concept-driven game. The analysis is based upon the data collected from 141 games in Qimai China website. We find four factors such as game attributes, technology level and the agency, which have influenced the performance of the niche in content industry. As a result, game life is related to game attributes and the agency.
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Ying LIU	Takatoshi ANDO	Current status and issues relating to animal-assisted activities introduced in elderly care facilities in China -Based on interviews with volunteer organizations-	In recent years, therapy dog projects have been gradually implemented in China, but I think that the level of public awareness is still low compared to guide dogs and police dogs. Then, animal-assisted therapy in China was applied mainly to children with autism, but there was less animal-assisted activity for the elderly. In this study, I examined the current status of animal-assisted activities in China and the factors involved in their introduction from the viewpoint of volunteer groups that have been engaged in animal-assisted activities for more than a decade in various places such as nursing homes and child care facilities. I would like to consider especially the obstacles. In order to improve the quality of care for the elderly, I would like to provide the facility with knowledge on the spread of animal-assisted activities.
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<p>Zhengyan WAN</p>	<p>Masanori YASUMOTO</p>	<p>Research on the relationship between technology strategy and technology development profitability in patents —Focusing on technological diversity and the position of firm in patent network and Targeting the communication industry—</p>	<p>In this paper, targeting the mobile communication industry, from the viewpoint of patents, we will confirm the relationship between the diversity of technology and technology development profitability, and examine the impact of the firm's position in the patent network on technology development profitability. As a result, Technology diversity positively effect technology development profitability, but because of the influence of each firm's position in the patent citation network, the positive effect will certainly have a negative impact on other firm' technology development return.</p>
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