

# Foreword and Editorial

## **International Journal on Human and Smart Device Interaction (IJHSDI)**

We are very happy to publish this issue of an International Journal on Human and Smart Device Interaction by Global Vision School Publication.

This issue contains 5 articles. Achieving such a high quality of papers would have been impossible without the huge work that was undertaken by the Editorial Board members and External Reviewers. We take this opportunity to thank them for their great support and cooperation.

In the research paper "A Study on Consumption Propensity of University Students in Consideration of their Smartphone Use Patterns ", with the wide penetration of smartphone, people of all age groups and generations face the era of smartphone. In the circumstance, a smartphone device is an essential valuable. However, it includes not only positive factors for consumers, but negative factors like impulse buying. Therefore, this study aims to find consumption habits on the basis of smartphone, to analyze the influential power of mobile consumption, and thereby to investigate how it influences university students' consumption habits. These days, university students experience youth unemployment, the lack of jobs, and the abandonment of economy. This study tries to help university students to understand the concept of economy and provide a fundamental material which helps to come up with a plan for the future generation, national economy, and the recovery of consumers' economic sovereignty. The study subjects were 100 students in two universities. They participated in a questionnaire survey, and 20 of them as a focus group had interviews. According to the focus group interview analysis, advertisements were found to highly induce their impulse buying while their mobile shopping, and it was necessary to provide the education of consumption habits for female university students in order to prevent their mobile impulse buying. Therefore, it will be necessary to develop a consumption culture project for university students, contents for mobile consumption education, and customized service for female students in a convergence way.

In the paper "The effect of odor on Visual fatigue due to smartphone", the proportion of smartphone users worldwide is 66%. Accordingly, the e-book business market utilizing smart phones is also growing steadily. In addition, research on the degree of visual fatigue and the measurement of visual fatigue are also active. On the other hand, research related to visual fatigue mitigation from smartphone is relatively inadequate. The purpose of this study was to investigate the effect of aroma odor on visual fatigue through the measurement of biometric data. The subjects were male and female, in their 20's, without olfactory disorder. Pulse wave meters were used to measure changes in LF/HF ratio. In order to add visual fatigue, we adopted a method of reading electronic books through a smartphone. Experimental results showed that LF/HF ratio was statistically significant only at some times in Group A. These results suggest that the increase of visual fatigue suppresses the olfactory relaxation and arousal effect in the competition process where sight and olfactory are transmitted to the cerebrum. Therefore, it is necessary to elucidate more clear reason through the follow-up study.

In the research “A Study on the Factors affecting Continuous Use of the Mobile Office”, this study designed a research model based on the Expectation-Confirmation Model of Bhattacharjee (2001) to identify the factors of the continued use of Cloud Computing-based mobile office by the users who have accepted mobile office services. Based on the findings of this study, the invasion of business to personal life by the use of cloud-based mobile office is viewed as a serious side effect of mobile office, which was originally intended to protect personal life and enhance the quality of life. Therefore, this study makes political and legislative suggestions to improve such negative effect and protect personal life. Also, this study also proposes a direction of improvements and development of more advanced SaaS-based mobile office. Social and political improvements are needed to protect privacy and prevent invasion of privacy caused by the acceptance of ICT.

The paper entitled “User Health Information Analysis System of Urine and Feces Separable Smart Toilet”, introduction of IoT (Internet of Things) technology coupled with the spread of smartphones, various health care devices have emerged that allow individuals to easily diagnose and manage their health conditions at home. However, it remaining as the previous inconvenient method that the diagnostic method of IoT healthcare services only combining the Internet. Therefore, in this study, the sensor-based urine and feces separable toilet proposed categorizing method of the user's toilet using scenarios and analyzing method of the urine components without previous manual process. At this time, the collected data from smart toilet has transmitted to cloud through LoRa (Long Range) wireless communication technology.

In the paper “Research and Practice on Teaching Team Construction of Applied Undergraduate Network Engineering Specialty”, based on the curriculum design of network engineering major in China, combining with the society's demand for college students' practical ability and the idea of running a school in the applied university of Heilongjiang University of Commerce and Industry, This paper analyzes and studies the construction of teaching team in network engineering specialty of computer department, and sets up an excellent teaching team with reasonable structure, specialty characteristic, strong pertinence and high service.

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