

Foreword and Editorial

International Journal of Urban Design for Ubiquitous Computing (IJUDUC)

We are very happy to publish this issue of an International Journal of Urban Design for Ubiquitous Computing by Global Vision Press.

This issue contains 3 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 paper “Development of a New Earthquake Early Warning System Based on a Three-Party Combined Judgment Analysis Engine”, Earthquake early warning systems must be capable of observing P waves (tremors) that spread at a relatively rapid rate and preemptively warn about the risk of damage that can be caused by S waves that subsequently arrive to prompt residents to evacuate immediately. Earthquake early warning systems in South Korea are capable of issuing earthquake warnings within 25 s of detecting the first P waves, and the government has pledged to reduce the time required to issue warning after detecting the first P waves to less than 10 s by 2020. In existing earthquake early warning systems, a seismograph is usually installed at one location within a building and a one-party combined judgment method is used to make earthquake judgments. This not only has low reliability but can also lead to judgment errors. The introduction of new methods for rapid issuance of warning is an issue that must be resolved. To issue rapid and accurate earthquake early warnings, this study proposes a new three-party combined judgment method that can determine whether an earthquake will occur within a maximum of 5 s after vibrations occur by selecting three major comparison patterns, reprocessing dual sensors as triple sensors, and making sub-judgments and final judgments. To increase the sophistication of earthquake judgment methods, this paper presents the “three-party combined judgment” analysis engine, which is a pattern-based earthquake identification algorithm that increases the accuracy of risk judgments by comparing information from three or more detection sensors, the vibration status of nearby buildings, the history of past earthquakes, and waveform analysis pattern data. It also presents an earthquake early warning system that was developed based on this analysis engine. The introduction of this system will allow for rapid and accurate issuance of earthquake early warnings and contribute to a reduction in earthquake judgment errors.

In the research paper “A Detailed Review on Customized Smart City Applications”, smart cities are the future target or the future goal of all the countries now a day started processing towards the goal. Developing the facilities in the existing cities such that to become smart cities and to provide better life and better facilities to the citizens living in those cities. Some of the cities in the world already had become smart and some cities are on the process of becoming smart cities. The incorporation of IoT and other related technologies with the day to day happening events and situations in the city will make these targets easier to reach. In the present paper, the current trends and the technologies that were using to convert a city to smart city and other set of applications that can be observed in the smart cities was given in details with example for better understanding.

In the paper entitled “A Survey on Solutions and Applications of Cloud Service and Storage Security”, cloud benefit reception has quickly expanded since this blog was first posted in 2010. On account of that, we thought we would give you a refresh to better mirror the consistently expanding distributed storage security challenges looked by present-day endeavors today, and how arrangements like Nasuni beat them. To begin, organizations have moved from pondering whether they should exploit the cloud to arranging how they will make it an indispensable piece of their IT frameworks. For every one of the upsides of putting away information in the cloud, be that as it may, essential security concerns remain. Above all else is that your information moves outside the entrenched and precisely developed security border of your association. That unnerves a few organizations, as it appears to conflict with a portion of the fundamental principles of good security. In any case, an appropriately planned cloud-based capacity arrangement can adequately broaden the security edge of your office, guaranteeing that your information is continuously protected in travel and very still.

August 2019

**Editors of the August Issue on
International Journal of Urban Design for Ubiquitous Computing**