

Foreword and Editorial

Journal of Statistical Computing and Algorithm

We are very happy to publish this issue of the Journal of Statistical Computing and Algorithm by Global Vision School Publication.

This issue contains 2 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 "Design of Risk Analysis Database System Based on Open Data for South Korea", disasters of various sizes and types are occurring globally. Disaster analysis tools are used to estimate the losses due to disasters. However, there is a limitation in the application of disaster statistical data in Korea because these data are based on the country where the tool is produced. To improve the accuracy of loss assessment, it is necessary to utilize data in consideration of each country's environment. However, the data opened at the national level are distributed among various organizations. Thus, considerable time is required to build infrastructure. In this study, we collect the open data distributed among various institutions and ensure data compatibility and interoperability through the standardization of the data in various formats. In addition to a disaster analysis system, a design method for a database system that can support various analysis systems through the data is proposed considering scalability.

In the paper "Design and Pilot Implementation of a Knowledge Sharing Platform for Hazard Analysis and Disaster Management", the design and pilot implementation of a knowledge sharing platform for hazard analysis and disaster management is presented. The proposed system will also play a critical role in supporting the development of disaster management technologies as a knowledge sharing platform as well as being used for research on hazard risk analysis. The proposed knowledge sharing platform can integrate and collaborate on disaster data analysis gathered by researchers and decision makers in the disaster risk analysis process to provide useful information for disaster prevention and improving the response to disasters. Furthermore, the results of this study can be used as appropriate guidelines to improve the preparedness and disaster management system at national level.

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**Editor(s)-in-Chief of the June Issue on
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