

Software Engineer Statistic Used To Evaluate Flood Warning System

Dr. Siripen Iamurai¹ and Prof. Pathawit Chongsermsirisakul²

SiPa Research Organization, Thailand

Email: siripen2002@gmail.com and Pathawit_C@hotmail.com

Abstract:

According to the research “Statistics that software engineering used to evaluate the flood warning: A Case study from Chiang Mai, Thailand 2024” in ITCE 2025, on 28th November 2025, Azerbaijan State Pedagogical University, Baku, Azerbaijan. Which are based on the research of “Flood Disasters Warning System. Case study from Chiang Mai, Thailand 2024” [G04], 10th IFIP WG5.15 Conference on Information Technology in Disaster Risk Reduction (ITDRR2025), on October 15th, 2025 at Kyoto University, Kyoto, Japan. And “The warning system in flood disasters, case study from Chiang Mai, Thailand” (Bosai 2025), Sendai, Japan. We designed the system structure of the software architect in the form of a level 0,1,2 data flow diagram, designed a system and performed a system by several the statistical software engineering to evaluate this flood warning system.

To analyze all the data involved in the entire system and have tested the quality of the data and software. To identify problems to be fixed and improved, to ensure the reliability of data and systems. Statistical methods in SPSS software used to solve engineering problems such as descriptive statistics, hypothesis testing, confidence intervals, linear regression, and correlation analysis, and ANOVA variance analysis, which can be used for uses to test this system we designed, and the results were satisfactory. The research will present the results in detail.

Keywords: *Software engineer statistics to evaluate the flood warning system, the Flood Warning System and data analysis method, Software quality assessment and data reliability monitoring system, a flood crisis system methodology, System and data analysis of engineering.*