Design of Multiple Sensors Monitoring System using Small Flying Vehicle

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Abstract—**Recently, as deteriorated buildings such as high-rise buildings, chemical plant structures have various social problems and heavy economic loss due to its cracking, fire and collapse, it leads to national loss eventually. In order to prevent these problems in advance, this study intends to suggest test data control and efficient information provision service in structural safety test system using small flying vehicles being mounted with multiple sensors. The goal of this study is to store and control multiple sensor data, image and thermal infrared image data transmitted from small flying vehicle through its synchronization and to design integrated control system for safety test that provides test result and historical data management.**

(Pt9)Keyword—**Multi-Sensor, Small Flying Vehicles, Sensor Fusion, Monitoring System**

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