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Central emergency response management system

Central Emergency Response Management system (CERM) facilitates estimation of dispatch response time and route or direction from the origin of the resource to incident site. The dispatch determined the capability required to a specific incident. Its core technology is Call Taking Management System (CTMS) which applies stochastic optimization to collaborate sub-systems and make everything else complete. They are connected end to end to create a consolidated database system leading to a criminal information system and incident command system which includes call taking and logging module, resource unit dispatch and geo-mapping module, SMS messaging services module, resource availability and dispatch. It can record audio patch from the telephone line through the audio input of the PC (client computer). The provided information on incident, incident type, location and other important information needed by the dispatcher (police). The map provides an aerial view (satellite image) of the location of an incident for the nearest equivalent search parameter within 10,000 meters from the center of crime. This technology shows the best route possible from the unit resource (of the crime) origin to the incident site. The control also shows text-based instruction, estimated time and distance.

Biography

Menchita F Dumlao is currently the Research Director of Philippine Women's University, Philippines. Concurrently, she is an Associate Professor and Program Chair of Department of Information Technology and Technology Consultant of Imergex Information Technology, Inc. Her research interest is in the area of data science, machine learning and artificial intelligence.

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