

Mobile Emergency

Mobile Emergency of the DISIT Lab is a mobile application and solution to manage communication exchange during maxi emergencies in hospital and large areas. The addressed emergencies can be related to internal events (such as fire, broken pipes, etc.), as well as external events (for example the sudden arrival in the hospital of hundreds of new patients due to a terrorist attack, a natural disaster, etc.). Mobile Emergency can cut down the times of intervention and improve the coordination and the organization of the medical personnel. The solution is based on a mobile device (for example: iPhone, iPad, iPod) to be used by the medical and paramedical staff, to communicate the inception of emergencies, to communicate with the central emergency services, to organize groups of intervention and support, to get the closest exits (with and without connection), to create collaborations, to obtain help by skilled people, to access prescriptions and guidelines regarding procedures, dosages, and thus a decision support system. Some of these features are made easier by a central server collecting the information and they facilitate people to collaborate also by producing a global view of the emergency conditions in the area. With Mobile Emergency the reaction time of the whole emergency system is strongly reduced, same occurs with the induced and related damages and risks due to the lack of communications among people and agents during the emergencies. The solution is based on technologies of: artificial intelligence, semantic computing, mobile system, grid and social media. Mobile Emergency integrates the Mobile Medicine solution produced by the same group (<http://mobmed.axmedis.org>) with the aspects related to the possibility of producing and accessing a huge amount of information from the mobile device as a decision support system, even in conditions of lack of communication. The Mobile Emergency application is accessible on the Apple Store: <http://itunes.apple.com/us/app/mobile-emergency/id409326454?mt=8>

DIPARTIMENTO DI SISTEMI E INFORMATICA, UNIVERSITÀ DEGLI STUDI DI FIRENZE

The Department of Systems and Informatics of the University of Florence, includes a number of research labs; among them the DISIT Lab (Distributed Systems and Internet Technology, <http://www.disit.dsi.unifi.it>) is one of the most active in the areas of research and innovation such as: distributed systems, cross media content, distributed multimedia systems, mobile computing, media grid computing, semantic computing, symbolic music, e-learning and distance learning, e-health, semantic models, recommendations. DISIT Lab has been working on several international research projects, development and innovation projects and on technology transfer contracts. Activities are performed in collaboration with international labs and industries, and with the support of standardization bodies such as ISO MPEG. The DISIT Lab has managed to produce innovative solutions and tools which were downloaded thousand times per month, along a very long time span. DISIT Lab has received many awards, acknowledgments and positive reviews by international institutions and enterprises, and as well as by international agencies for technology innovation and research exploitation for Media Grid Computing solutions, electronic music stands, mobile solutions, social networking, etc. Recently, the DISIT Lab has started the process to set up a spin-off in the framework of the Florence University Incubator, called EffectiveMedia, where skilled experts of DISIT are engaged. The whole set of 4 innovations proposed by DISIT has been selected.

Contact:

- Paolo Nesi, nesi@dsi.unifi.it
- Website: <http://www.disit.dsi.unifi.it>
- Via S. Marta 3 - 50139 Firenze, Italy