Company profile – Fondazione Ugo Bordoni (FUB)

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Mission and activities

- Fondazione Ugo Bordoni (FUB) is an Italian not-for-profit research centre operating in telecommunications, information technology, electronics and multimedia services and in their applications to other fields. FUB is also active in the protection and promotion of cultural heritage, innovation policies and consumer protection. It supports Italian Public Administration in international fora and study groups (ITU, CEPT, etc).

- Topics of interest
  - AAT.2013.2-1 Airports
  - AAT.2013.4-8 Seamless aeronautical networking through integration of data links, radios and antennas extended beyond ATM
  - SST.2013.2-1 Next generation of train control systems in the domain of urban and main line European railway systems
  - SST.2013.2-2 New concepts for railway infrastructure and operation: adaptable, automated, resilient and high-capacity
  - SST.2013.3-1 Managing integrated multimodal urban transport network

- More information at http://www.fub.it/en
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Expertise offered

- Expertise offered relevant to FP7 Transport Sixth Call:
  - **Radio communications sub-systems**
    - Wireless communications
    - Wireless networks in outdoor and indoor environments
    - Radio Propagation and coverage analysis
    - Channel modelling
    - Measurements
    - Electromagnetic compatibility (EMC)
    - Evaluation of exposure to electromagnetic fields (EMF)
    - Network dimensioning and planning
  - **Database and information systems**
    - Information mining
    - Database planning and development
  - **Models and algorithms**
    - Prediction models (genetic algorithm, neural algorithm)
    - Scheduling algorithms
  - **ICT Security**
    - Data encryption
    - Vulnerability management

Other projects in the area

- Sigevama (http://www.aster.it/sigevama.html)
  - Co-operation project with the Airports of Bologna and Forlì, the University of Bologna and the Emilia-Romagna region for the development of an automatic monitoring system of aircraft and vehicles on the apron
- SafeTrip (http://www.safetrip.eu/)
  - Objective: provide an integrated system platform for the development of applications for the road market, i.e.:
    - Provision of real-time traffic information and warnings generated by the collection of data coming from other vehicles
    - Emergency call system
    - Real time tracking of vulnerable passengers transports
- Pandora (http://www.pandoraproject.eu/)
  - Crisis management is a major issue to prevent emergency situations from turning into disasters.
  - In the happening of a catastrophic event, it is human behaviour that determines the speed and efficacy of the crisis management effects.

Contacts

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