Innovative Interactive Systems

Solutions for online interactive systems

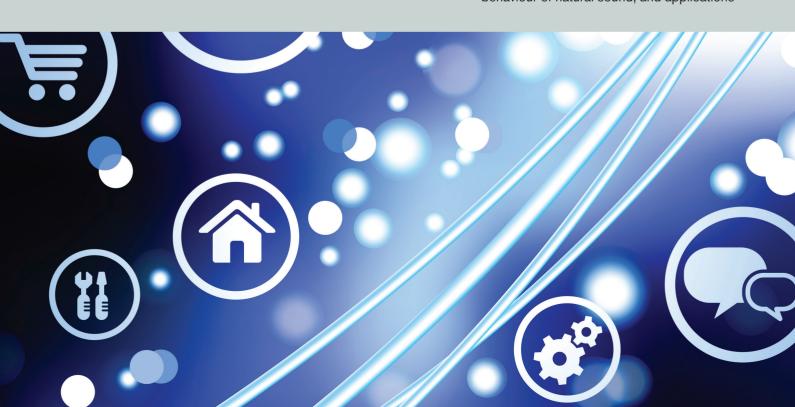The **Innovative Interactive Systems (IIS)** Research Group produces empirically designed guidelines for the design and development of systems. Offering services to a range of sectors, including education, training and development and the creative industries, the group has expertise in areas such as:

— E-learning
— Multimodal and multimedia systems
— Interactive auditory interfaces
— Internet based e-commerce systems
— Interfaces for software engineering
— Interactive computing
  and media technologies
— Social media
— Augmented reality

Expertise

IIS specialise in the following areas:
— E-learning
— E-commerce
— Software engineering
— Use and design of avatars
— Design and development of testing
  methodologies and platforms for audio-
  related perceptual evaluations
— Design and development of interactive 3D
  VR acoustic systems with haptics feedback
— Design and development of sonification
  metaphors and platforms for interactive
  sonification of various typologies of data
— General skills for recording, synthesis
  and reproduction of 3D signals
  through loudspeakers and headphone
  systems (in particular using binaural
  and Ambisonics technologies)
— Developing new methods for interactive
  environmental sound synthesis - mimicking the
  behaviour of natural sound, and applications

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Facilities

Our Creative Technology Studios boast a range of industry-standard equipment. With HD work stations, television studios with HD video cameras, green screen and virtual-studio capabilities; two fully equipped recording studios featuring analogue and digital recording systems; surround sound monitoring and a fused media and motion-capture studio, used for 3D image capture, modelling and display.

Innovative Interactive Systems can offer businesses:

— Interactive systems with increased usability
— Internet based web systems that
  creates impressive websites
— Improved learning with multimodal metaphors

Key Collaborations

— University of Ferrara (Italy)
— LIMSI-CNRS laboratory (Orsay, France)
— Centre for New Music and Audio
  Technologies, Berkeley University (USA)

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