

DESIGN OF ADVANCED INTERFACES (DIANA)



INTRODUCTION

Multidisciplinary group that has been working since 1999 on the R&D of interfaces for their application to new information and communication technologies. It is structured into the following working areas: "Networks and Radio Technologies" Analysis and modeling of technologies for next-generation wireless networks; "Human-Machine Interaction and Virtual Reality" 3D interaction and binaural audio for eXtended Reality (XR) and psychoacoustics. Brain-Computer Interfaces and new interaction paradigms; and "Electronic Systems Design" and "Innovation in Education"

RESEARCH TOPICS

- Networks and Radio Technology.
- Human-Machine Interfaces and Virtual Reality.
- Electronic Systems Design.
- Educational Innovation.

SCIENTIFIC-TECHNICAL SERVICES

- 3D interaction in virtual reality,
- Brain Computer Interfaces.
- Body area networks and fall detection systems.
- Electrónica and interactive art.
- Technology and new teaching methodologies for higher education in engineering.
- Applications for unmanned aerial vehicles.
- Wireless communication networks.
- Internet of things, IoT.
- 3D Audio and Hearing Virtual Reality.

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