Health transition

IMT Atlantique covers a broad spectrum in the field of engineering for health. This ranges from the design and development of medical devices such as the study of radio-elements produced with the ARRONAX cyclotron, or XEMIS for 3-photon gamma imaging or the connected knee prostheses developed at the RHU FellowKnee, to the development of diagnostic radioisotopes.

The theme also includes the modeling of new e-Health solutions from the economic perspective in terms of societal impact, to the evaluation of medical technologies and innovation in the organization of health services. Finally, our work focuses on digital medical data security, data science and medical decision support, interventional surgery support via image processing and augmented or virtual reality, as well as functional or orthoptic rehabilitation.
Research Consortia (Chaires)

- AI-4-Child: Help for patients with cerebral palsy
- BOPA: augmented operating room innovation
- Medical imagery for interventional therapies
- M@D: Home Care
- Veterinary telemedicine

Some partners

- GIP ARRONAX
- GIS BEACHILD, child rehabilitation
- GIS VITTORIA, Big data & health
- LabEx CAMI, CominLabs, IRON
- LabCom ADMIRE with Evolucare Technologie, SEPEMED with MEDECOM, TESMARAC with Triskem International

Les projets de recherche

FellowKnee

FellowKnee

The connected knee prosthesis project
HIT

Handicap Innovation Territoire: Make disability a lever for social and technological innovation at the service of citizens.

KIMI

KIMI

Knowledge sharing in Medical Imaging

M4P

Personalised, preventive, predictive and participatory medicine applied to diabetes

MISSIVES

MISSIVES

Modelling the induction of social Stress in Immersive Virtual rEality Simulations
  • Projet Anr

ONCOSHAre

ONCOlogy big data SHAring for Research: development of a common patient-centred big data in oncology

VITAAL

VITAAL

Combatting isolation using ICT
  • CPER

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