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INESC TEC

<https://www.inesctec.pt/en/societal-impact#content>

Bilateral Meetings

- Wednesday (14:00 - 16:30)

Description

INESC TEC is a private non-profit research institution in ICT, dedicated to scientific research and technological development, technology transfer, advanced consulting and training, and pre-incubation of new technology-based companies.

Organization Type

University / R&D Institution,

Request

Clinical partners to support new medical technologies ideation and validation

INESC TEC are looking for highly motivated healthcare professionals that want to be involved in the development of new solutions for healthcare. Target technologies include medical image analysis and wearables.

Cooperation Requested

1. Technical co-operation

Offer

NeuroKinect - A novel portable and low-cost 3D video system for motion analysis in Parkinson patient

NeuroKinect is an affordable, easy to setup and operate software solution for motion assessment of neurological disease patients.

The system is protected by Intellectual Property Rights under Copyright.

Many neurological diseases, such as Parkinson's disease and epilepsy, can significantly impair the patients' motor function, often leading to a dramatic decrease in their quality of life. In these diseases, human motion analysis is seen as fundamental towards an early diagnosis and improved management. In clinical practice, neurologists usually rely on direct visual observation (or through a video) to evaluate motor symptoms following subjective methods of evaluation based on clinical scores. To address these limitations, we present the NeuroKinect, a portable and low-cost 3D video system designed to provide quantitative data on human motion in the context of neurological diseases with movement impairment.

Cooperation Offered

1. License agreement

Offer

ACCURATE-BV - CAD for blood vessel analysis in breast reconstruction surgery

Accurate-BV is an image processing algorithm that automatically tracks and retrieves clinically relevant features from each perforator blood vessel.

Patent pending: EP 16206752.4

The gold standard in autologous breast reconstruction is the Deep Inferior Epigastric Perforator (DIEP) flap. This surgical technique requires preoperative imaging studies, which are critical since selecting the portion of the lower abdominal wall to be used is based on the location and features of the perforating arteries present in the tissue. Currently, the surgical planning of DIEP flap is made resorting to the qualitative and manual assessment carried-out by radiologists. However, such fallible methodology may lead to complications, mostly because the properties of the selected blood vessels, namely the caliber, is not what was expected. The main complications resulting from this mismatch are increased operative time, surgery re-scheduling and worse clinical outcome, which may be mitigated by accurate characterization of the blood vessels in the flap.

Cooperation Offered

1. Technical co-operation
2. License agreement
3. Investment/Financing

Offer

Medical softwares to assess human health through retina

Retina CAD is a software tool for support ophthalmologists at evaluating changes in retinal blood vessels in large-scale screening programs.

Choroid CAD is a software that improves the diagnosis and clinical follow-up of ocular diseases by supporting the assessment of thickness changes of choroidal membrane.

Cooperation Offered

1. License agreement
2. Sales / Distribution
3. Investment/Financing

Offer

Intellectual Property consulting

The Technology Licensing Office at INESC TEC has a recognised experience at protecting ICT and Medical technologies through patents. We are available to help you.

Cooperation Offered

1. Other