

Sensor Enabled Affective Computing for Enhancing Medical Care

<https://www.neurodegenerationresearch.eu/survey/sensor-enabled-affective-computing-for-enhancing-medical-care/>

Name of Fellow

Institution

Funder

European Commission Horizon 2020

Contact information of fellow

Country

EC

Title of project/programme

Sensor Enabled Affective Computing for Enhancing Medical Care

Source of funding information

European Commission Horizon 2020

Total sum awarded (Euro)

€ 504,000

Start date of award

01/01/16

Total duration of award in years

4.0

The project/programme is most relevant to:

Alzheimer's disease & other dementias

Keywords

Affective Computing | Machine Learning | Big Data | Medical Informatics

Research Abstract

This project brings together a diverse group of subject matter experts from industry and academia under one umbrella, with the main aim of enhancing and advancing future healthcare processes and systems using sensory and machine learning technologies to provide emotional (affective) and cognitive insights into patients well-being so as to provide them with more

effective treatment across multiple medical domains. The objective is to develop technologies and methods that will lessen the enormous and growing health care costs of dementia and related cognitive impairments that burden European citizens, which is estimated to cost over €250 Billion by 2030 [1].

From a technical perspective, the primary objective is to “develop a cloud based affective computing [2] operating system capable of processing and fusing multiple sensory data streams to provide cognitive and emotional intelligence for AI connected healthcare systems”. In particular the consortium intends to:

- Specify and engineer the architecture of the SenseCare platform and will release two versions of the platform cloud infrastructure during the life of the RISE project.
- Create and evaluate two use case test pilots (relating to the dementia care and connected health medical domains) that integrate with, use and apply the services of the SenseCare platform.
- Specify and engineer a number of medical informatics applications that will run on the SenseCare platform and that will also be tested and evaluated as part of the use case test pilot phases.

The outputs of the project will lead to significant and lasting impact on the innovation potential of the individual researchers, their host organisations as well as impacting in a much wider sense at a European and global level.

Types:

Fellowships

Member States:

European Commission

Diseases:

Alzheimer's disease & other dementias

Years:

2016

Database Categories:

N/A

Database Tags:

N/A