Research Profile

Centre for Image Processing & Analysis

Research Focus: Computer Vision

Automated Image Processing, Feature Segmentation Quantitative Analysis

Research Group

Team led by Prof. Paul Whelan, Professor of Computer Vision, with over 27 years experience in developing computer vision solutions in industry and academia.

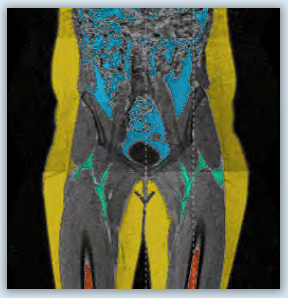
22 members including 3 faculty and 7 staff and Adjunct Members and Visiting Researchers

Core Expertise

Design and development of novel computer based solutions enabling automatic extraction of key image features with a view to a robust and reliable quantitative analysis, classification or tracking of key data within the scene.

3 Key Application Areas

Consumer



Industrial

Bio-Medical

Commercial Experience

Two start-up companies: Spin-out Jaliko and student start-up Exraylab
7 Patent Applications Filed
3 Commercial Licences

JALIKO

EXRAYLAB
MIS Spinal Simulators

Research Profile

Centre for Image Processing & Analysis

Industry Collaborations

Current Innovation Partnership with Reprodoc

Innovative use of ultrasound to automatically manage reproduction in cattle

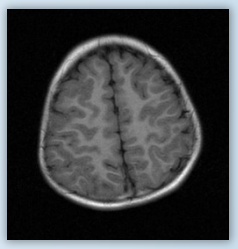
Examples of Ongoing Research

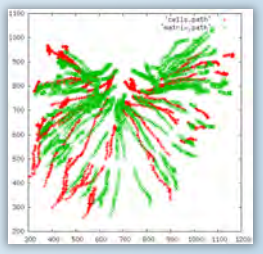
Spectral Mesh Processing for 3D Craniofacial Dysmorphology

White Matter Volume assessment in premature infants on MRI

National Biophotonics & Imaging Platform:

- Tracking in Cellular and Molecular Biology
- Automated Segmentation/Classification of Mitochondria from TEM Images,
- CAD for Ultrasound of the Carotid Artery





Where could CIPA expertise help other businesses

Diverse imaging expertise, tools and techniques that can be deployed across a wide range of sectors

High level applications include: key feature/event detection, controlling processes, automatic inspection, video tracking, motion analysis, image restoration, surveillance, computer aided diagnosis

As engineers, CIPA's focus is on developing reliable and robust computer vision solutions.

For More Information Contact : Paddy O'Boyle
paddy.oboyle@invent.dcu.ie +353 1 700 7003