Proposition de recherche doctorale

A Method for Neuron Cell Detection and Characterization

Mots clés :

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- Unité de recherche : Laboratoire d'Informatique PARis DEscartes
- Ecole doctorale : École Doctorale Informatique, Télécommunications, Électronique de Paris
- Domaine scientifique principal : Divers

Résumé du projet de recherche (Langue 1)

Over the years since the birth of image processing, the field has been expanding its range of applications to various areas of studies. An area that made one of the strongest strides in incorporating image processing to its practice is biology, especially with an advent of High Content Screening which utilizes subcellular imaging. In accordance with such advancements, the study of neuroscience is becoming increasingly intertwined with image processing in that physical structures of individual neurons are becoming more readily available visually. Without a doubt, image processing is bringing about the advances in the field of neuroscience with a focus to improve detection and characterization of neurodegenerative diseases. This thesis is a contribution to improving the detection and characterization of individual neurons.