

CLS / CCI Spring 2009 Seminar Series

4/21/2009

11:00am

Lee Cooper

Ohio State University

Location: North Decatur Building, 4th Floor Auditorium

“Unsupervised Tissue Segmentation for Large Histological Images”

Abstract:

Segmenting tissues in histological images is challenging due to their textural appearance, size, and the need to generalize results for different tissues and stains. Recent results show that in some cases an unsupervised segmentation can be achieved by using spatial distributions of cellular and subcellular components as segmentation features. The spatial distribution features have a theoretical basis that enables fast and deterministic calculation using convolutions, and their peculiar representation in feature space permits robust clustering. This talk will discuss recent segmentation results and developments in feature clustering and computation on GPU and parallel systems.



The Emory Center for Comprehensive Informatics fosters collaborative research and software development in high performance and grid computing, biomedical informatics, translational science and imaging informatics.

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The Computational and Life Sciences Strategic Initiative at Emory University explores new scientific frontiers at the interface of computation, synthetic sciences and systems biology.

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