

Lecture 1.3 (12:20-12:45)

On Image Comparisons and Image Monitoring

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Image monitoring is a relatively new research area in data science that has wide applications in various fields such as medical diagnostics, disease monitoring, satellite imaging, security systems, and so forth. Image comparison is a key step in the process of image monitoring. In this talk, I will first discuss a novel image comparison technique based on local pixel clustering. Next, I will discuss two types of image monitoring: one based on image intensities, and another based on image features. In the literature, most methods use image intensity changes to detect out-of-control images. In this context, I will highlight the advantages of using our feature-based image monitoring. I plan to finish the talk after discussing the issue of image registration in image monitoring, and our easy-to-implement solution.