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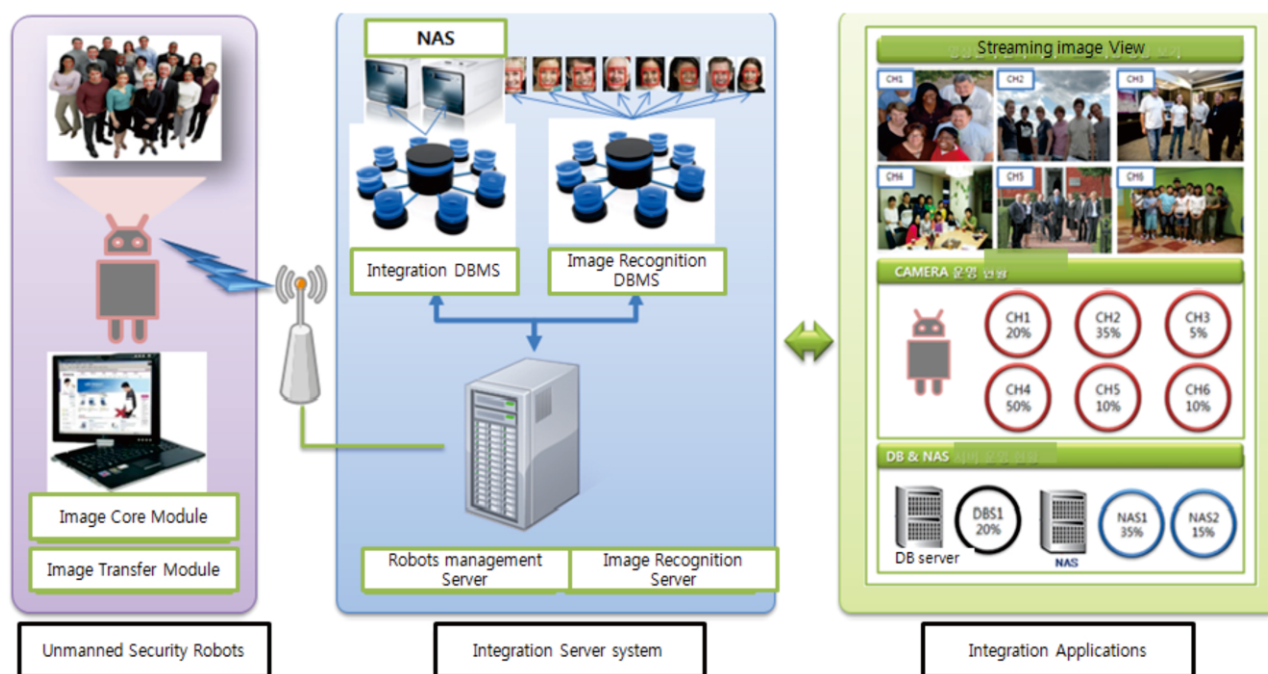


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Invited Speeches:

Title: Redundancy Models and Sparse Representations in Digital Film Restoration

Speaker: Dr. Alexander Petukhov, University of Georgia, USA

Abstract

The priceless celluloid pieces of the history disappear daily. Among possible film defects dust, dirt, scratches, flicker, color breathing, temporal instability are the most typical film damage. Possible causes are chemical, sunlight, bad projectors, and just time.

The simplest common idea behind film restoration algorithms is a combination of the redundant representation of the data with sparse models of artifacts. We discuss general principles of such algorithms and algorithms based on an opposite idea when the data are sparse in non-sparse (noisy) environment.

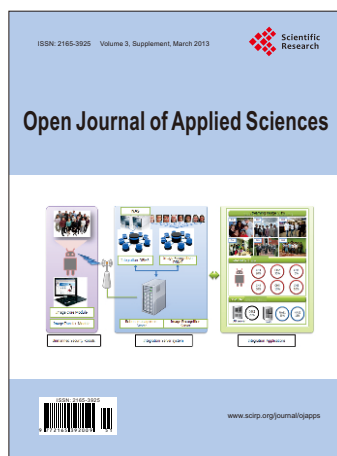
Title: Quantitative Medical Image Analysis and its Applications

Speaker: Prof. Defeng Wang, The Chinese University of Hong Kong, China

Abstract

The past decade has witnessed considerable advancements in imaging techniques, developing from structural to functional, from static to dynamic, enabling both individual- and population-based analysis. The speaker will give a brief introduction of advanced computational techniques that enable accurate and efficient extraction of useful information from neuroimages and orthopedic images with clinical application, e.g. the etiopathogenesis study of adolescent idiopathic scoliosis, neuroimage analysis for post-stroke patients, and planning of the hearing aid implantation surgery, etc.

Call for Papers



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