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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.
Open Journal of Applied Sciences (OJAppS) is an international peer-reviewed, open-access journal publishing in English original research studies, reviews in diverse areas of applied sciences. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in applied sciences and to keep a record of the state-of-the-art research in related areas.

**Subject Coverage**

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- Applied Physiology
- Applied Polymer Science
- Applied Psychology
- Applied Sociology
- Applied Spectroscopy
- Applied Surface Science
- Applied Toxicology
- Applied Vegetation Science
- Mathematical Methods in Applied Sciences
- Mathematical Models in Applied Sciences
- Applied Ergonomics
- Applied Neurobiology

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

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Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submission, please access the website.

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