

Special Issue Title: Recent Advancements in Image Processing using Deep Learning

Aim of Special Issue:

During past few years, deep learning and machine learning changes the eventualities in scientific disciplines and achieved state-of-art results in varied areas like medical imaging, biometrics, computer vision and graphics, pattern recognition, image rendering and image forensics and so on. Even these techniques priorly being employed in these areas and however prone to adversarial networks attacks where a trained mole will be simply deceived by creating a form of minor manipulation in input image. And such kind of weakness is vital to security related applications particularly in biometric and medical imaging. we need to design countermeasures to secure the digital image data. Indeed, in future, deep learning produce a high need within the application of biometric and forensics.

Nowadays, various image processing tools are getting developed and used to find frauds, manipulations, civil crimes, faux media news, terrorism and other image processing operations. Though biometric and forensics deals with image data security aspects however still there need to design such techniques where image processing techniques will be used for locating the inconsistencies in digital data. Therefore, the aim of this special issue is to receive innovative contributions within the domain of image security, visual analytics and image manipulation detection methods. we are expecting extremely scientific contributions with the assistance of varied methods on deep learning these areas.

The technical topics included (but not limited to):

- Deep learning-based image security applications
- Image forensics Applications
- Forensics analysis of various digital crimes
- Image Rendering Methods
- Adversarial machine learning
- Image Processing
- Medical imaging security and analysis
- Pattern Analysis
- Deep learning-based attacks and security systems in images/videos

Lead Guest Editors:

1. Dr. Manoj Kumar

Associate Professor, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India

Brand Ambassador, Bentham Science

Email: wss.manojkumar@gmail.com

<https://scholar.google.com/citations?user=jmdqiw0AAAAJ&hl=en>

2. Dr. Seyedali Mirjalili

Associate Professor, Centre for Artificial Intelligence Research and Optimisation, Torrens University, Australia and YFL (Yonsei Frontier Lab), Yonsei University, Seoul, Korea

Email: ali.mirjalili@laureate.edu.au, ali.mirjalili@gmail.com

<https://scholar.google.com/citations?user=TJHmrREAAAAJ&hl=en>

3. Dr. Octavio Loyola-González

Altair Management Consultants Corp. 303 Wyman St., Suite 300 Waltham, MA 02451, USA

Email: olg@altair.consulting

<https://scholar.google.com/citations?user=Vt2YSFAAAAAJ&hl=en>