***Special issue on Emerging Advances in Image and Signal Processing Techniques***

**Signals and images are now prevalent, as they may be found in a wide range of everyday scenarios, from commercial and healthcare applications to monitoring and surveillance industries. Endless situations are calling for images, and processing is done by software. The information contained in image pixels and sound bytes are vast. There is also a demand for image and signal processing in a wide range of applications. These applications specifically call for the secure and scalable methods of image and signal processing. However, encryption, decryption, compression and retrieval takes more than just reasoning; it also necessitates a level of intelligence to detect ultra-fine discrepancies.**

**We have seen significant advancements in signal processing, computers, imaging science, artificial intelligence, and their applications, all of which use computational intelligence in the recent decades. Due to these advancements and developments in the image and signal processing fields, we can now model and process signals and images using a variety of frameworks and paradigms. Nonetheless, the creation of new processing methods, which are usually created and optimized for specific applications, and the latter is a continuous process. As a result, it is critical to look into current trends in various study areas and applications worldwide. Several areas currently rely on the improvement of Image and signal processing. Areas that rely on IoT, smart sensors and automated systems call for optimizing signal processing and novel methodologies that enable them to leverage their full potential. Robust and low-complexity and low-latency filter design, signal recovery, and wavelets are all current topics in image and signal processing research. Adaptive filtering, learning algorithms for neural networks, spectrum estimation and modelling, and sensor array processing with applications in sonar and radar are among the current research interests in signal processing. There is another emergent call for research for the areas that are dependent on image processing technology. This call for research includes both aerial and microscopic imagery. This need is due to the following reasons that describe the current expensive modalities and techniques that require intelligent compression, restoration and processing techniques and are challenging to implement. Furthermore, there is a need for research that stimulates cross-fertilization between areas similar in nature and traditionally separated. These researches can pave the way for significant improvements in the healthcare industry, automotive industry, shipping industry, and pharmaceutical industry.**

**This special issue calls for the exchange of knowledge, ideas, analytical techniques, applications and experiments, novel algorithms of image and signal processing for the Internet of things platform related to aspects of the design, implementation and use of image communication systems.**

***Topics of inters:***

* **Recent trends in image and signal processing**
* **Role of emerging technologies in image and signal processing**
* **Innovative methods for compression and retrieval**
* **Designing of security related systems using image and signal processing**
* **Research opportunities for the image and signal processing**
* **Limitations of embedded systems in image and signal processing**
* **Methods to develop intelligent algorithms for image and signal processing**
* **Novel strategies for content-based image retrieval**
* **Novel methodologies for statistical signal processing**
* **Strategies for restoration and enhancement for image and signal processing**
* **Innovative methods for feature extraction and analysis of image and signals**
* **Advancements in image and signal processing methods**

***Important Dates:***

* **Submission​: ​-**
* **First decision: 25 Nov. 2023​**
* **Revision and resubmission deadline: 05 Feb. 2023**
* **Paper acceptance: 08 May. 2024**

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