Apologies in advance for cross-posting. please distribute among interested parties

----

Dear colleagues,

It is with great pleasure that we invite you to submit a paper to the following Topic.

Topic Title: **Color Image Processing: Models and Methods (CIP: MM)**

Website: https://www.mdpi.com/topics/6GC4CH653P

Editorial information and call for papers are enclosed below.

Please feel free to let us know if you need more information or have any questions.

We are looking forward to hearing from you.

With kind regards,

=== **Topic Editors** ===

Dr. Giuliana Ramella, National Reasearch Council of Italy, giuliana.ramella@cnr.it

Dr. Isabella Torcicollo, National Reasearch Council of Italy, isabella.torcicollo@cnr.it

=== **Editorial information** ===

Topic has hosted across the following MDPI journals.

Entropy, https://www.mdpi.com/journal/entropy

Applied Sciences, https://www.mdpi.com/journal/applsci

Journal of Imaging, https://www.mdpi.com/journal/jimaging

Computation, https://www.mdpi.com/journal/computation

The authors should submit their manuscripts to the journal most suitable for their research.

Review process starts as soon as the paper is submitted.

Deadline for abstract submissions: 30 July 2023

Deadline for Manuscript submissions: 30 September 2023

=== Call for papers ===

Color information plays a crucial role in digital image processing since it is a robust descriptor that can often improve data compression and simplify scene understanding for humans and automatic vision systems. Research about color presents new challenges since it makes it possible to expand the currently available methods, most of which are limited to the gray-level class of images. Furthermore, the multivariate nature of color image data requires designing appropriate models and methods at both the mathematical and percentual/computational levels. As a result, Color Image Processing (CIP) has become an active research area witnessed by many papers during the past two decades. It finds wide application in numerous fields such as, among many others, Agriculture, Biomedicine, Cultural Heritage, Remote Sensing, Defense, and Security.

This Topic aims to give an overview of the state-of-the-art in color image processing and provide present/future directions in several applicative contexts. Specifically, the Topic focuses on two aspects that traditionally are considered separately: mathematical modeling and computational design of methods. Papers presenting reviews, alternative perspectives, new models/methods in the field of CIP facing both these aspects are welcome. All submitted papers will be peer-reviewed and selected on the basis of both their quality and relevance to the theme of this Topic.

We invite original contributions that provide novel solutions to these challenging problems. Submitted papers can address theoretical or practical aspects of progress and directions in CIP.

Issues of interest include, but are not limited to:

- Information Theory and Entropy-based method for CIP
- Color space models
- Mathematical modeling for CIP
- Numerical approximation for CIP
- Color image enhancement, segmentation, and resizing
- Data augmentation for CIP
- Deep learning for CIP
- Color content-based image retrieval
- Color quality image assessment
- Biometric CIP
- Color medical imaging
- CIP Models and Methods applied to Agriculture, Cultural Heritage, Remote Sensing, Defense, and Security

Keywords:

- Color images
- Mathematical models
- Computational methods
- Color visual processing

========================