Special Issue

Robust Deep Learning Techniques for Multimedia Forensics and Security

Message from the Guest Editors

Adversarial machine learning has shown that it is possible to craft powerful jamming signals, namely adversarial examples, that can undermine the performance of AI-based detectors. Moreover, operations that media are often subject to (multiple social media sharing, compression, recapturing) can be regarded as laundering-type attacks and affect the performance of AI-based systems. Furthermore, media are evolving. Most solutions are quite naive and can only work under controlled operative conditions or thought to work under a very specific attack setting. Robust systems should be designed, departing from fully data-driven solutions based on features completely self-learned by the network and trained on the whole data under analysis, exploiting more robust structures and—whenever possible—resorting to multi-modal analysis. Focusing on the analysis of semantic attributes can also help to avoid the network relying on confounding factors, comes with the consequence that the solutions lack generality and robustness.

Guest Editors

Dr. Benedetta Tondi

Dr. Irene Amerini

Dr. Andrea Costanzo

Dr. Minoru Kuribayashi

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Journal of Imaging
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jimaging@mdpi.com

mdpi.com/journal/jimaging

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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

Editor-in-Chief

Prof. Dr. Raimondo Schettini
Department of Informatics, Systems and Communication, University of Milano-Bicocca, viale Sarca, 336, 20126 Milano, Italy

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