



Robust Deep Learning Techniques for Multimedia Forensics and Security

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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.





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Message from the Editor-in-Chief

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