Special Issue

Information Retrieval and Cyber Forensics with Data Science

Message from the Guest Editors

The rich formats of digital data and the rapid evolution of data science have provided numerous ways to create digital data on the Internet. Unfortunately, advertisers, hackers, criminals, enemies, and terrorists alike create, alter, forge, or manipulate these digital data for their commercial, political, malicious, or illegal purposes, threatening public safety, societal wellbeing, or even national security. For example, adulterated or forged images and videos may be used for propaganda; unauthorized distribution of copyrighted material violates the owner's rights; and steganography may be used for illicit cover communications, for carrying malware, or to facilitate scamming or phishing schemes, such as the use of AI-assisted face swap and synthesized voices by cyber criminals, etc. Social networks have become primary venues for digital data communications, providing a wealth of source material for cyber forensics research. Additionally, the social networks' connectivity patterns, information diffusion, and influence processes, as well as social bots, are of immense interest in the broader study of digital forensics.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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