

Special Issue

Recent Advances in DSP-Based Optical Communications

Message from the Guest Editor

Digital signal processing (DSP) is a highly promising technology which has the potential to address the challenges facing future optical communication systems. DSP can be regarded as a highly powerful yet cost-effective technology due to today's mass produced, advanced digital semiconductor technologies. The application of DSP to other optical communication networks such as metro, access, LANs and data centres, has seen a great deal of attention from researchers in recent years. DSP can be exploited for implementing functions such as highly spectrally efficient modulation formats for increased link capacities, transmission impairment mitigation for improved transmission performance and intelligent optical transceivers for software defined, reconfigurable networks. Due to the finite speed and precision of real DSP hardware however, real-time demonstrations are essential to fully validate new DSP techniques and more and more research is now addressing the challenges of real-time DSP implementation.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

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