



Advances and Evolutions in Optical Data Storage

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Message from the Guest Editor

The Special Issue provides an overview of the latest research and development in optical data storage (ODS), as well as new research and application areas of ODS technologies.

The research and development into ODS has encountered a drastic change. A rapid increase in data density, capacity, and the data transfer rate of solid state disks, hard disk drives and tape drives have made these storage options a viable player in modern data communication and storage eco-systems. In the storage eco-system, ODS is considered an extra long-term (over 50 years) cold data archive system that is “green” due to its smaller total cost and energy consumption compared to the alternatives.

While seeking to further develop ODS within the storage eco-system, the ODS research and development community, both in academia and industry, is actively seeking application areas for the ODS technology that has accumulated over the past three decades.

The Special Issue provides a perspective on current ODS technologies and technical assets, as well as its horizons, including new opportunities, killer devices and systems, which will have the same market size and technical challenges in the future.





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Message from the Editor-in-Chief

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