# Artificial Intelligence Optical Transmission Network

In this review, we propose a "3S" architecture for AI-driven autonomous optical network, which can aid the optical networks operated in "self-aware" of network status, "self-adaptive" of ...

ML techniques are proved to have superiority on solving complex problems, and thus recently, ML techniques have been used for many optical network applications. In this paper, a ...

Here, David Côté explains how artificial intelligence (AI) is being applied to maximize network capacity and quality of transmission (QoT). Companion articles focus on network analytics ...

AI technologies can significantly enhance the performance, efficiency, and reliability of optical networks by optimizing network operations, predicting and preventing failures, processing ...

AI (Artificial Intelligence) and more specifically optical networks are two distinct but interconnected fields that can benefit from each other in the near future. This article explores and ...

chniques for improving performance of optical communication systems and networks. The use of AI-based techniques is first studied in applications related to optical transmission, ranging...

The use of AI-based techniques is first studied in applications related to optical transmission, ranging from the characterization and operation of network components to ...

The demand for optical transceivers outside of data centers, particularly for Data Center Interconnect (DCI) applications driven by artificial intelligence (AI), is anticipated to experience solid growth over ...

Techniques from artificial intelligence have been widely applied in optical communication and networks, evolving from early machine learning (ML) to the recent deep learning (DL).

This paper presents a comprehensive review of the application of AI techniques for improving performance of optical communication systems and networks.

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