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Patent Search

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Abstract:

The present invention is related to a computer implemented modulation method which is more efficient for free space optical communication system under influence of different atmospheric and fog conditions. The objective of the present invention is to overcomes the adequacies of the prior art in data loss in modulation of signal in free space communication at different atmospheric and fog of related loss of signal.

Complete Specification

Claims:

1. A computer implemented method for modulation of free-space optical (FSO) wireless communication under influence of different atmospheric and fog conditions, wherein the computer implemented method is processed by at least one computing device, wherein the computing device has the capabilities of communication and storing of the information, the computer implemented method comprising:

Receiving a digital input data, comprising a series of input data, each input signal having one of two signal data levels;

Performing a signal modulation in which message bits are encoded by transmitting a single signal data in one of 2M possible required time shifts;

Creating a digital input data group having n bits from the digital data;

Converting each digital input data group to a corresponding output symbol representing double values, wherein the output code comprises a multilevel signal data position modulated code; and

Generating an output signal comprising a series of output codes wherein the output signal has a lower transmitted power than an on-off modulated signal transmitting a series of on-off modulated output codes at the cumulative data rate.

2. The computer implemented method for modulation of free-space optical (FSO) wireless communication under influence of different atmospheric and fog conditions as claimed in claim 1, generating the output signal comprises modulated laser light as a the laser interference light intensity with phase modulation is obtained by a laser light source with phase modulation

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