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## **Free Space Laser Communication Technologies**

Free-space optical communication (FSO) is an optical communication technology that uses light propagating in free space to wirelessly transmit data for telecommunications or computer networking. "Free space" means air, outer space, vacuum, or something

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similar. This contrasts with using solids such as optical fiber cable. The technology is useful where the physical connections are impractical ...

## **Free-space optical communication - Wikipedia**

Laser communication in space is free-space optical communication in outer space.. In outer space, the communication range

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of free-space optical communication is currently of the order of several thousand kilometers, suitable for inter-satellite service. It has the potential to bridge interplanetary distances of millions of kilometers, using optical telescopes as beam expanders.

**Laser  
communication in  
space - Wikipedia**

Free-Space Laser



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**Free-Space Laser**  
*Page 9/31*

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**Communication  
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(2012 ...**

This book is intended for research scientists, engineers and students with an interest in the topic of free-space laser communications. It is intended as an all-inclusive source to serve the needs of those who require information about both basic concepts, as well as up-to-date advanced knowledge

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of the state-of-the-art  
in the technologies  
available today.

## **Free-Space Laser Communications - Principles and Advances ...**

technologies are cited.

Key Words: laser  
communications, free  
space, intersatellite  
links, space  
communication, space  
networks 1.

Introduction  
Communication

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technology has  
experienced a  
continual development  
to higher and higher  
carrier frequencies,  
starting from a few  
hundred kilohertz at  
Marconi's time to  
several hundred  
terahertz since we

**Space Laser  
Communications:  
Systems,  
Technologies, and ...**  
Various papers on free-  
space laser

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communication technologies are presented. Individual topics addressed include: optical intersatellite link experiment between the earth station and ETS-VI, the Goddard optical communications program, technologies and techniques for lasercom terminal size, weight, and cost reduction, laser beam acquisition and

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tracking system for  
ETS-VI laser  
communication ...

## **Free-Space Laser Communication Technologies II - NASA/ADS**

Guwahati: Researchers at Indian Institute of Technology Guwahati (IIT-G) have developed a novel free-space optical communication system using light beams that is free from the distorting effects of

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atmospheric  
turbulence. The  
research team has  
demonstrated the  
distortion-free  
transmission of text  
messages and images  
over distance of one  
kilometre even in the  
presence of turbulence  
such as ...

## **IIT-G develops novel free space optical communication ...**

The conference will  
cover subjects related

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to the latest research and technology advances, and provide an overview useful to lasercom specialists, technology managers, and communication engineers. Papers are encouraged on ongoing laser communication programs, free-space laser communication system requirements, technology and subsystem advancements, and in-depth analysis of



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**Free-Space Laser  
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XXXIII, Conference  
Details**

The fundamentals of all-optical Internet connectivity and the associated communication technologies described in this book with an emphasis on developing innovative architectures and design of optical

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communication link systems are based on the concepts and demonstrations of some of the following areas: demonstration of low earth orbit satellite-to-ground laser communications; optical antenna ...

### **Free-Space Optical Communication - an overview ...**

fSONA has brought together a team of wireless,

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communications and optics industry experts that includes some of the world's leading laser communications professionals. Our experts chair or sit on many boards, including SPIE Free Space Laser Communication Technologies, the Free Space Optics Alliance and the IEC international laser safety standards committee.

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Students for the year  
2015 2016.

## **Free Space Laser Communications | Seminar Report, PPT, PDF ...**

The present  
conference discusses  
topics in free-space  
laser communications,

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laser link  
characteristics,  
satellite laser  
communication  
systems,  
optoelectronic  
components for laser  
communications, and  
space laser subsystem  
technologies. Attention  
is given to Space  
Station-based deep-  
space communication  
experiments, the  
application of  
intersatellite links to  
operational satellite

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Laser

systems, high ...

Communication

**Free-space laser  
communication  
technologies;**

**Proceedings ...**

Concept [1] • FSO -  
optical communication  
technology that uses  
light propagating in  
free space to transfer  
data. • Line of sight  
technology. •

Bandwidth up to 2.5  
Gbps. • Uses LED or  
Laser as a light source.

3 4. FSO Transmitter

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FSO Receiver Fig. 1  
FSO Transmitter &  
Receiver images [4] 4  
5.

## Proceedings Of **Free space optics (FSO) - SlideShare**

Some space applications require large amount of data to be transferred. An examples is the transmission between different Earth-orbiting satellites (inter-satellite communications), which was first



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demonstrated by ESA  
in 2001 (ESA). It is  
possible to transmit  
tens of megabits per  
second or more over  
many thousands of  
kilometers, using  
moderate laser  
average powers of the  
order of a few watts.

## **Free-space Optical Communications - consulting on laser**

...

For free-space optical  
communication (FSOC)

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applications, a more profound advantage over arrays of independent laser transmitters (ie. 'dumb' lasers), is that frequency combs have an intrinsic phase relationship between the channels which allows 'pilot' channels to be allocated that can be digitally and coherently processed at the receiver end.

## **Chip Laser Combs**

Laser  
**for Free Space  
Optical Communication  
Technologies ...**

The unregulated visible light spectrum has recently been harnessed for energy-efficient, ultra-large bandwidth, and secure data transmission.

Besides the potential for achieving high data rate free-space communication links, i.e. the Li-Fi network, laser-based visible light communication (VLC)

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Laser  
technology also  
enables underwater  
wireless optical  
communications  
(UWOC) for many  
important ...

## **Free Space and Underwater Visible Light Communications: An**

...

Free Space Optics is an inherently Low Latency Technology, with effectively no delay between packets being

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transmitted and received at the other end, except the Line of Sight propagation delay. The Speed of Light through the air is approximately 40% higher than through fibre optics, giving customers an immediate 40% reduction in latency compared to fibre optics.

## **Free Space Optics Technology -**

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## **CableFree**

fSONA develops and deploys Free Space Optics (FSO) solutions which use advanced line-of-sight wireless laser communications technology to enable secure, high speed bandwidth connections.

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