

COMPUTER SOCIETY OF INDIA

COIMBATORE CHAPTER

[Vaishnav Building, 92A Race Course Road, Coimbatore 641 018 Ph.: 0422 2200695 www.csi-cbe.org](#)

Invite you for the presentation on Advanced Wireless Technology Li-Fi.

By

Ms. A.Devipriya - HOD of CSE department

Ms. R.TinaSudhaa - Assistant Professor CSE

Mr. M.Sathish - Assistant Professor CSE

(All from Sriguru Institute of Technology, Coimbatore)

Date : 15/03/2016

Time: 06:30 PM

Venue: CSI Hall at the above Address

All are welcome with their colleagues and friends.

CHAIRMAN

SECRETARY

What is Li-Fi

Light Fidelity (Li-Fi) is a bidirectional, high speed and fully networked wireless communication technology similar to Wi-Fi. The term was coined by Harald Haas and is a form of visible light communication and a subset of optical wireless communications (OWC) and could be a complement to RF communication (Wi-Fi or Cellular network), or even a replacement in contexts of data broadcasting. It is so far measured to be about 100 times faster than some Wi-Fi implementations, reaching speeds of 224 gigabits per second

It is wireless and uses visible light communication or infra-red and near ultraviolet (instead of radio frequency waves) spectrum, part of optical wireless communications technology, which carries much more information, and has been proposed as a solution to the RF-bandwidth limitations

Li-Fi has the advantage of being useful in electromagnetic sensitive areas such as in aircraft cabins, hospitals and nuclear power plants without causing electromagnetic interference. Both Wi-Fi and Li-Fi transmit data over the electromagnetic spectrum, but whereas Wi-Fi utilizes radio waves, Li-Fi uses visible light. Wi-Fi is close to full capacity, Li-Fi has almost no limitations on capacity. The visible light spectrum is 10,000 times larger than the entire radio frequency spectrum. Researchers have reached data rates of over 10 Gbit/s, which is much faster than typical fast broadband. Li-Fi is expected to be ten times cheaper than Wi-Fi

SPEAKERS' PROFILE

Ms. A.Devipriya currently working as Head of Computer Science and Engineering department in Sriguru Institute of Technology, has 10+ years of experience in teaching field. She has an M.Tech in Information Technology from M.Tech from Regional Centre Anna University, Coimbatore and Pursuing PhD from Anna University Coimbatore. She has won gold medal in PG. She has been an active researcher by publishing papers in more than 10 journals. She has won the best Head award for leading the Computer Science department in innovative and research path in Sriguru Institute of Technology

Ms. R.TinaSudhaa currently working as Assistant Professor in Computer Science and Engineering department in Sriguru Institute of Technology, has 3 years of experience in teaching field. . She has an M.Tech in Information Technology with specialization of Mainframe from Regional Centre Anna University, Coimbatore. She has been an active trend setter in department as well as college. She has published papers in 2 journals and 5 conferences. She has brought in the concept of brainstorming teaching in class for the entire college

Mr. M.Sathish currently working as Assistant Professor in Computer Science and Engineering department in Sriguru Institute of Technology, has 3 years of experience in teaching field. . He has a B.Tech. in Information Technology followed by M.E in Computer Science and Engineering from Regional Centre Anna University, Trichy. He has published papers in 2 journals and 5 conferences. He has been a great researcher of Raspberry Pi which led him to open a Centre of Excellence- Raspberry Pi Club at SriGuru Institute of Technology. This club proposal transferred him to receive a national award of "Open Automation challenge – 2015" in Kalycito Company.