



1. **Name:** Prof. Soven Kumar Dana
2. **Designation:** Professor
3. **Department:** Electronics and Communication Engineering (NSUT East Campus)
4. **Qualification:** Ph.D., M.E., B.E.
5. **Experience:** 22+ Years
6. **Email:** sovenkd@gmail.com, soven.kumar.dana@nsut.ac.in

Prof. Soven Kumar Dana has received B.E. in Electronics and Telecommunication Engineering from Bengal Engineering College, Shibpur, the University of Calcutta and M.E. in Electronics and Telecommunication Engineering from Jadavpur University, Kolkata. He has been selected and recommended by the Ministry of HRD, Government of India for the Japan Government Scholarship for research study in Japan; he has studied in Japan and has received PhD from Kyoto Institute of Technology, Kyoto, Japan as Japan Government Scholar. He has authored several papers and his papers have been published in various international journals including the IEEE Transactions and Conferences.

He has several years of experience in the Industry and has worked in leading roles as Senior Manager and Director in reputed organizations. He has experience of working in Government of India organization as well as in MNCs on the R&D of Electronics, Communications, Optical Networking and Networked Systems. He has authored two granted Patents on networking system design - an Indian Patent and a US Patent.

Presently, he is Professor in the Department of Electronics and Communication Engineering. His current research interest includes AI & ML and Optical Networking. He has been a member of the IEEE. He has conducted the Optical Networking panel discussion of IEEE-ANTS 2015 conference in Indian Statistical Institute, Kolkata.

Patent Grants

1. S. K. Dana, C. P. S. Dogra, S. Kumar, E. Heistermann, System for translating instruction in a switch node, United States Patent - US 9288558, Mar 15, 2016.
2. S. K. Dana, A. K. Gupta, A. Srivastava, Lightwave communication system for transmission of voice signals, India Patent No – 226593, Dec 19, 2008.

Publications

1. S.K.Dana, H.Shimasaki, and M. Tsutsumi, Efficient Optical Control of Millimeter-waves in a Slot Line on Semiconductor Plasma Substrates, IEEE Transactions on Microwave Theory and Techniques, Vol. 50, No. 1, pp. 207-210, January 2002.
2. S. K. Dana, T. Ueda and M. Tsutsumi, Optical Isolator-Modulator in a Microstrip Line on Yttrium Iron Garnet Single Crystal, IEICE Transactions on Electronics, Vol. E 84-C, No.3, pp 325-330, March 2001.
3. Shubham Mittal, Soven K Dana, 'Gender Recognition from Facial Images using Hybrid Classical-Quantum Neural Network' IEEE SCES 2020, Prayagraj, India, SCOPUS indexed, DOI: 10.1109/SCES50439.2020.9236711
4. Abhishek Khansali, Arti M. K., Soven K. Dana, Manoranjan Kumar, 'Modified AMI Modulation Scheme for High-Speed Bandwidth Efficient Optical Transmission Systems', International Conference on Innovative Computing and Communications, New Delhi, 2020 DOI: 10.1007/978-981-15-5113-0_26
5. M. Tsutsumi, T. Ueda, and S. K. Dana, Optical Interactions with Microwave in the Single Crystal of Yttrium Iron Garnet, IEEE Transactions on Magnetics, Vol 35, No. 5, pp.3172-3174, Sept. 1999.
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9. S. K. Dana, T. Ueda, and M. Tsutsumi, Measurement of Magnetostatic Surface Wave Profiles in a Layered YIG Structure Using Optical Probing Technique, IEICE Conference, C-3-134, Yokohama, Japan, March 1999.
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12. S. K. Dana, T. Ueda, and M. Tsutsumi, Optical Isolator-Modulator Using a Microstrip Line on Yttrium Iron Garnet Single Crystal, Digest, International Conference on Ferrites, pp. 300, Kyoto, Japan, Sept. 2000.
13. S. K. Dana, T. Ueda, and M. Tsutsumi, Optical Isolator-Modulator Using a Microstrip Line on Yttrium Iron Garnet Single Crystal, Proceedings, International Conference on Ferrites, pp. 867-869, Kyoto, Japan, Sept. 2000.
14. S. K. Dana, T. Ueda and M. Tsutsumi, Theory on Optical Isolator-Modulator in YIG Film Waveguide, Proceedings, OFFSET 2000, Japan-China joint meeting on optical fiber science and electromagnetic theory, pp. 91-94, Osaka, Dec. 2000.

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17. M. Tsutsumi, S. K. Dana, and H. Shimasaki, Optical Control of Millimeter Waves Using Slot Line on Semiconductor Plasma Substrate, Proceedings, Asia Pacific Microwave Conference, Vol. 2, pp. 327-330, Singapore, December 1999.
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19. M. Tsutsumi, S. K. Dana, and T. Ueda, Optical Isolator-Modulator Using Single Crystal of YIG, IEICE Conference, C-3-7, Hiroshima, Japan, March 2000.
20. S. K. Dana, A. K. Gupta, and A. Srivastava, Development of a Field Deployable Erbium Doped Fiber Amplifier for Ultra High Speed Long-haul Optical Links, Conference-Photonics 96, Madras, India, December 1996.
21. Asim Kar and S. K. Dana, A new temperature compensated LED driver circuit for fiber-optic digital communication, All India Seminar on Opto-electronics Education, Research and Technology, Lucknow, India, December 18-19, 1993.

Research Guidance

Supervised several MTech dissertations and BTech projects in the areas including Quantum Technologies, AI & ML and Optical Networking.

Other Roles

Earlier, he has been the Head of the Department of SAH, NSUT East Campus and the In-charge as the Training and Placement Officer in NSUT East Campus.
