

**Department of Physics and Computer Science**  
**Faculty of Science**  
**Dayalbagh Educational Institute (Deemed University)**

**List of Book Chapters 2014 – 2019**

<b>Author</b>	<b>Title</b>	<b>Publication Year</b>	<b>Book Details</b>	<b>Page number</b>
<b>Purnima Sethi and Sukhdev Roy</b>	All-Optical Ultrafast Adder/ Subtractor and MUX/DEMUX Circuits with Silicon Microring Resonators	2013	Eds. S. Dolev and M. Oltean Springer-Verlag Berlin Heidelberg	52-57
<b>Sukhdev Roy and Chandresh Yadav</b>	All-Optical Ultrafast Switching and Logic with Bacteriorhodopsin Protein	2013	Eds. S. Dolev and M. Oltean Springer-Verlag Berlin Heidelberg	58-62
<b>Prof. Preetvanti Singh</b>	Multiple-Objective Fractional TP With Impurites	2014	Ed. John Wang Encyclopedia of Business Analytics And Optimisation , IGI Global	29-48
<b>Sunil Pratap Singh and Prof. Preetvanti Singh</b>	A Multi-Criteria Decision Making Approach For Evaluation of MOOCs Platforms	2016	Ed. Victor C. X. Wang, Handbook of Reasearch on Learning Outcomes and Opportunities In The Digital Age , IGI Global	27-29
<b>Aman Tyagi &amp; Prof. Preetvanti Singh</b>	Health Information System	2017	Ed. Nilmini Wickramasingha,Advances in Healthcare Information System And Administration, IGI Global Book Series	24-26
<b>Sukhdev Roy</b>	Nano-Bio-Photonics: Integrating Technologies to meet Challenges in Energy, Mobility and Healthcare	2017	Eds. K.V Raghavan and P. Ghosh, Energy Engineering, Springer Nature Singapore	49-51
<b>Kajal Garg &amp; Sonali Bhatnagar</b>	Galactic Cosmic Energy Spectrum Based Simulation of Total Equivalent Dose In Human Phantom	2018	Ed. Md. Naimuddin,Proceding in Physics 203,Springer	22-23

<b>Dhruv Bhandari, Sandeep Paul And Apurva Narayan</b>	Multimodal Data Fusion and Prediction of Emotional Dimensions Using DEEP Neural Networks	2019	Eds. N.K.Verma and A.K.Ghosh, Computational Intelligence Theories, Applications and Future Directions, Springer Nature Singapore	1-7
<b>Komal Saxena, K.V.Karthik, Suryakant Kumar, D.Fujita and Anirban Bandopadhyay</b>	Wireless Communication Through Microtubule Analogue Device:Noise-Driven Machines in the Bio-System	2019	Ed. K.Ray et al., Lecture Notes in Electrical Engineering, Springer Nature Singapore	8-15
<b>Soniya,Sandeep Paul and Lotika Singh</b>	Simultaneous Structure And Parameter Learning Of Convolutional Neural Network	2019	Eds. N.K.Verma and A.K.Ghosh, Computational Intelligence Theories, Applications and Future Directions, Springer Nature Singapore	16-21
<b>Mohit Agarwal and Gur Mauj Saran Srivastava</b>	A PSO Algorithm Based Task Scheduling in Cloud Computing	2019	Eds. K. Ray et.al., Soft Computing: Theories and Applications, Advances in Intelligent Systems and Computing, Springer Nature Singapore	63-66
<b>Nirupama Singh,Mrinal R. Pai,Gurpreet Kaur,Divya,V.R. Satsangi,Rohit Shrivastav,Sahab Dass</b>	Zn <sub>1-x</sub> FexO <sub>y</sub> nanocomposites for renewable hydrogen produced efficiently via photoelectrochemical vis-a-vis photocatalytic splitting of water	2019	SN Applied Science ,Springer	