3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year

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Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Link
1	Yudhveer Kumar Verma		Methodology for designing and fabricating a novel SEABIN used in the marine industries		10th International Conference on Advancements in Engineering and Technology (ICAET-2022)	International	2022	ISBN No: 978-81-924893-7-7	Assistant Professor Dronacharya College of Engineering		https://ggnindia.dronacharya.info/Downloads/Admin/ICAET-2022-PAPER-21122022.pdf
2	Neha Chauhan		Methodology for designing and fabricating a novel SEABIN used in the marine industries		10th International Conference on Advancements in Engineering and Technology (ICAET-2022)	International	2022	ISBN No: 978-81-924893-7-7	Assistant Professor Dronacharya College of Engineering		https://ggnindia.dronacharya.info/Downloads/Admin/ICAET-2022-PAPER-21122022.pdf
3	Dr. Ekta Thakur	A Review on Smartwatch for Paralytic and Critically Aged Persons			6th International Conference on Communication and Electronics Systems (ICCES)	International	2-Aug-21	ISBN:978-1-6654-1182-0	Department of Electronics and Communication, Dronacharya College of Engineering Gurgaon	IEEE	https://ieeexplore.ieee.org/document/9489120
4	Dr. Ekta Thakur	Review On Application Of Drone Systems In Agriculture			6th International Conference on Signal Processing, Computing and Control (ISPCC)	International	2-Aug-21	ISBN:978-1-6654-2555-1	Department of Electronics and Communication, Dronacharya College of Engineering Gurgaon	IEEE	https://ieeexplore.ieee.org/document/9609383

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5	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Terahertz Near-Field Imaging and Sensing				2021	ISBN 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer Link	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_9
6	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Highly Directive Lens-Less Photoconductive Dipole Antenna Array for Imaging Applications				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_7
7	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Directivity Enhancement of Terahertz Photoconductive Dipole Antenna: Approach of Frequency Selective Surface				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_6
8	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Analytical Framework of Small-Gap Photoconductive Dipole Antenna: An Equivalent Circuit Model				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_5

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9	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications					2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/book/10.1007/978-3-030-68960-5
10	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Terahertz Technology for Biomedical Application				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_10
11	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Terahertz Integrated Circuit Design				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_11
12	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Terahertz Antenna Technology for Imaging and Sensing Applications				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_3

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13	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Beam-Steering Characteristics of Highly Directive Photoconductive Dipole Phased Array Antenna				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_8
14	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Terahertz Imaging Modalities: State-of-the Art and Open Challenges				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_2
15	Dr. ISHA MALHOTRA	Terahertz Antenna Technology for Imaging and Sensing Applications	Small-Gap Photoconductive Dipole Antenna for Imaging and Sensing				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-68960-5_4
16	Isha Malhotra	Terahertz Antenna Technology for Imaging and Sensing Applications	Terahertz Near-Field Imaging and Sensing				2021	ISBN: 978-3-030-68960-5	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Springer Cham	https://link.springer.com/book/10.1007/978-3-030-68960-5

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17	Neha Verma		A technical review on application oriented comparative study of IoT, IoNT, and IoBNT	Internet of Things,bioc omputing	2021 6th International Conference on Communication and Electronics Systems (ICCES)	Interna tional	2021	**ISBN:**978-1 6654-1182-0	ECE Department DCE, Gurugram, Haryana	IEEE	https://www.semanticscholar.org/paper/A-technical-review-on-application-oriented-study-of-Kumar-Anuradha/617b5c3368dfc3dc8dbca9c4ef3e6f0983e198f1
18	Abhinav Panwar	Commun ication and Computi ng Systems	Optimisation of process parameters of orbital EDM				2019	ISBN:9-780 4294-4427-2	Mechanical Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor and Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-80/optimisation-process-parameters-orbital-edm-akshay-diwan-abhinav-panwar-poshan-lal-sahu
19	Ashima Mehta	Commun ication and Computi ng Systems	CloudReports tool to implement IaaS framework with location-based authentication in cloud				2019	ISBN:9-780 4294-4427-2	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-62/cloudreports-tool-implement-iaas-framework-location-based-authentication-cloud-ashima-mehta-surya-narayan-panda
20	Ashima Mehta	Commun ication and Computi ng Systems	SLA penalty and reward strategy for cloud computing				2019	ISBN:9-780 4294-4427-2	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-50/sla-penalty-reward-strategy-cloud-computing-pooja-tiwari-ashima-mehta

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21	Ashima Mehta	Communication and Computing Systems	Empowering IoT with cloud technology				2019	ISBN:9-780 4294-4427-2	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-11/empowering-iot-cloud-technology-ashutosh-kumar-ashima-mehta
22	Ashima Mehta	Communication and Computing Systems	Retrospection on security in cloud computing				2019	ISBN:9-780 4294-4427-2	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-49/retrospection-security-cloud-computing-hansraj-ashima-mehta
23	Chandra Shekhar Singh	Communication and Computing Systems	Gravitational search optimized resource allocation in underlay cognitive radio networks				2019	ISBN:9-780 4294-4427-2	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-41/gravitational-search-optimized-resource-allocation-underlay-cognitive-radio-networks-chandra-shekhar-singh-prasad
24	Deepika	Communication and Computing Systems	Investigation of optical properties of a-Se80-xTe20Bix (x=0, 3, 9) thin films				2019	ISBN:9-780 4294-4427-2	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-28/investigation-optical-properties-se80-xte20bix-0-3-9-thin-films-deepika-prasad-sanjay-singh

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25	Deepika		Optical properties of nanostructured $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ thin films		AIP Conference Proceedings		2018	DOI:10.1063	Department of Applied Sciences, The NorthCap University,	Google Scholar	https://aip.scitation.org/doi/abs/10.1063/1.5052088
26	Dr. Brij Mohan Kumar Prasad	Communication and Computing Systems	Investigation of optical properties of a-Se80-xTe20Bix (x=0, 3, 9) thin films				2019	ISBN:9-780 4294-4427-2	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-28/investigation-optical-properties-se80-xte20bix-0-3-9-thin-films-deepika-prasad-sanjay-singh
27	Dr. Brij Mohan Kumar Prasad	Communication and Computing Systems			Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018	International	2019	ISBN:9-780 4294-4427-2	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/books/edit/10.1201/9780429444272/communication-computing-systems-prasad-karan-singh-shyam-pandey-richard-kennedy?refId=86b0b0f1-48e2-4f53-bfe7-46477fe6b35d&context=ubx
28	Dr. Ekta Thakur	Advances in Signal Processing and Communication	Mathematical Analysis of Commonly Used Feeding Techniques in Rectangular Microstrip Patch Antenna				2019	ISBN-978-981-13-2553-3	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Publisher : Springer Singapore	https://www.springerprofessional.de/en/mathematical-analysis-of-commonly-used-feeding-techniques-in-rec/16950510

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29	Manish Kumar Mishra	Communication and Computing Systems	ANALYTICAL AND EXPERIMENTAL CHARACTERIZATION OF FRICTION FORCE IN BELT MOTION				2019	ISBN:9-780 4294-4427-2	Mechanical Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-98/analytical-experimental-characterization-friction-force-belt-motion-saurabh-yadav-manish-kumar-mishra-vineet-mishra
30	Manish Kumar Mishra	Communication and Computing Systems	Best to smart green manufacturing practices for small and medium enterprises: An importance-performance analysis				2019	ISBN:9-780 4294-4427-2	Mechanical Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-36/best-smart-green-manufacturing-practices-small-medium-enterprises-importance-performance-analysis-kushal-lalwani-manish-mishra-rajesh-mattoo
31	Neha Verma	Communication and Computing Systems	Algorithms to achieve maximum power for photovoltaic system				2019	ISBN:9-780 4294-4427-2	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-75/algorithms-achieve-maximum-power-photovoltaic-system-shalini-sharma-neha-verma

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32	Nidhi Singh	Communication and Computing Systems	Enhancement of the property of black cotton soil using corn cob ash and iron ore tailings				2019	eBook ISBN9780429444272	Dronacharya College of Engineering, Gurgaon, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-40/enhancement-property-black-cotton-soil-using-corn-cob-ash-iron ore-tailings-nidhi-singh-tapish-chauhan
33	Vineet Mishra	Communication and Computing Systems	ANALYTICAL AND EXPERIMENTAL CHARACTERIZATION OF FRICTION FORCE IN BELT MOTION				2019	eBook ISBN9780429444272	Dronacharya College of Engineering, Gurgaon, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-98/analytical-experimental-characterization-friction-force-belt motion-saurabh-yadav-manish-kumar-mishra-vineet-mishra
34	Vinod Kumar	Communication and Computing Systems	Coverage preserving scheduling for life span maximization in wireless sensor network based internet of things				2019	eBook ISBN9780429444272	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-33/coverage-preserving-scheduling-life-span-maximization-wireless-sensor-network-based-internet-things-vinod-kumar-sushil-kumar

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35	Yashvardhan Soni	Communication and Computing Systems	Big Data techniques: Today and tomorrow				2019	eBook ISBN9780429444272	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-86/big-data-techniques-today-tomorrow-priyanka-khatana-yashvardhan-soni
36	Vikas Garg	Communication and Computing Systems	Profit analysis of a system of non identical units with priority and preventive maintenance				2019	eBook ISBN9780429444272	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-34/profit-analysis-system-non-identical-units-priority-preventive-maintenance-vikas-garg-pooja-jain
37	Vimmi Malhotra	Communication and Computing Systems	Mobile assistive application for visually impaired				2019	eBook ISBN9780429444272	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-35/mobile-assistive-application-visually-impaired-sushil-sharma-vimmi-malhotra?context=ubx&refId=bd9e85b5-88aa-4637-a6e6-5771c0e55dfa

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38	Swati Sharma	Communication and Computing Systems	Designing of liding mode controller				2019	ISBN:9-780 4294-4427-2	ELECTRICAL AND ELECTRONICS ENGINEERING, Dronacharya College of Engineering	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-74/designing-sliding-mode-controller-jyoti-rana-swati-sharma?context=ubx&refId=0977d011-48a4-
39	Tanvir Singh	Advances in Production and Industrial Engineering	Influence of Nanoparticle Addition (TiO2) on Microstructural Evolution and Mechanical Properties of Friction Stir Welded AA6061-T6 Joints				2019	ISBN: 978-981-15-5519-0	Mechanical ENGINEERING, Dronacharya College of Engineering	Springer	https://link.springer.com/chapter/10.1007/978-981-15-5519-0_18
40	Priya Kochar	Communication and Computing Systems	Study of blockchains implementation prospects in manufacturing sector				2019	ISBN:9-780 4294-4427-2	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-37/study-blockchains-implementation-prospects-manufacturing-sector-sumit-kumar-barkha-narang-arun-pillai-priya-kochar?context=ubx&refId=8269cf94-88be-46ec-8ebd-060750c66225

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41	Priyanka Khatana	Communication and Computing Systems	Big Data techniques: Today and tomorrow				2019	eBook ISBN97804 29444272	Computer Science &Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-86/big-data-techniques-today-tomorrow-priyanka-khatana-yashvardhan-soni
42	Rajesh Mattoo	Communication and Computing Systems	Best to smart green manufacturing practices for small and medium enterprises: An importance-performance analysis				2019	ISBN:9-780 4294-4427-2	Mechanical Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-36/best-smart-green-manufacturing-practices-small-medium-enterprises-importance-performance-analysis-kushal-lalwani-manish-mishra-rajesh-mattoo
43	Sangeeta Singla	Communication and Computing Systems	FRP bio digester for efficient waste management				2019	eBook ISBN97804 29444272	Dronacharya College of Engineering, Gurgaon, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-30/frp-bio-digester-efficient-waste-management-sangeeta-singla-vinod-kumar

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44	Pooja Jain	Communication and Computing Systems	Profit analysis of a system of non identical units with priority and preventive maintenance				2019	eBook ISBN9780429444272	Dronacharya College of Engineering, Gurgaon, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-34/profit-analysis-system-non-identical-units-priority-preventive-maintenance-vikas-garg-pooja-jain
45	Poshan Lal Sahu	Communication and Computing Systems	A COMPARATIVE STUDY BETWEEN CONSTANT WEIGHT AND VARIABLE WEIGHT FINS				2019	ISBN:9-780-4294-4427-2	Mechanical Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-32/comparative-study-constant-weight-variable-weight-fins-yogesh-chauhan-poshan-lal-sahu-ananta-shrivastava
46	Poshan Lal Sahu	Communication and Computing Systems	ADIABATIC AIR WATER 2-PHASE FLOW IN CIRCULAR MICRO-CHANNEL USING HETEROGENEOUS PARTICLE SWARM OPTIMIZATION				2019	ISBN:9-780-4294-4427-2	Mechanical Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-79/adiabatic-air-water-2-phase-flow-circular-micro-channel-using-heterogeneous-particle-swarm-optimization-sanjeev-kumar-ananta-shrivastava-poshan-lal-sahu

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47	Poshan Lal Sahu	Communication and Computing Systems	Numerical model of inverted trapezoidal fin horizontal array heat sink for heat transfer through natural convection				2019	ISBN:9-780 4294-4427-2	Mechanical Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-84/numerical-model-inverted-trapezoidal-fin-horizontal-array-heat-sink-heat-transfer-natural-convection-vishal-verma-priyanka-daga-poshan-lal-sahu
48	Priya Kochar	Communication and Computing Systems	Study of blockchains implementation prospects in manufacturing sector				2019	eBook ISBN97804 29444272	Electronics and Communication Engineering, Dronacharya College of Engineering, Gurugram, India	Taylor & Francis Group	https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-37/study-blockchains-implementation-prospects-manufacturing-sector-sumit-kumar-barkha-narang-arun-pillai-priya-kochar?context=ubx&refId=8269cf94-88be-46ec-8ebd-060750c66225
49	SANGHA MITRA VIKAS ARORA		Short Utterance Based Speaker Identification System For Resource Constrained Devices		2nd International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE)	International	2018	ISBN:978-1 5386-6918-1	Electronics and Communication Engineering Dronacharya College of Engineering Gurgaon, India	IEEE	https://ieeexplore.ieee.org/document/8742884

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50	Krishanu Kundu		Use of Firefly Algorithm for optimizing Hexagonal Antenna arrays	Communication, Computing and Internet of Things IC3IoT 2018	International Conference on Communication, Computing and Internet of Things IC3IoT 2018	International	2017-18	ISBN: 9781538624609	Dronacharya College of Engineering, Gurgaon		https://ieeexplore.ieee.org/document/8668124
51	Neha Verma		Route Narrator and Communicator for Blind, Deaf and Dumb	INDIACom-2018; IEEE Conference	5th International Conference on "Computing for Sustainable Global Development"	International	2017-18	ISBN: 9781467394178	Dronacharya College of Engineering, Gurgaon	IEEE	http://bvicam.in/INDIACom/news/INDIACom%202018%20Proceedings/Main/papers/625.pdf
52	Neha Verma		Throat Cancer-Survey Paper	INDIACom-2018; IEEE Conference	5th International Conference on "Computing for Sustainable Global Development"	International	2017-18	ISBN: 9781467394178	Dronacharya College of Engineering, Gurgaon	IEEE	http://bvicam.in/INDIACom/news/INDIACom%202018%20Proceedings/Main/papers/93.pdf
53	Mrs Jyoti Pruthi		Anti-Collision System	11th INDIACom 2017	International Conference On Computing For Sustainable Global Development,	International	2017	ISBN: 978-1665-4076-94	Dronacharya College of Engineering, Gurgaon	IEEE	http://bvicam.in/INDIACom/news/INDIACom%202017%20Proceedings/Main/papers/2518.pdf

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54	Neelam Ruhil		Smart Solar Device to Reduce toxic Gases from Environment	11th INDIACom 2017	International Conference On Computing For Sustainable Global Development,	International	2017	ISBN: 978-1665-4076-94	Dronacharya College of Engineering, Gurgaon	IEEE	http://bvicam.in/INDIACom/news/INDIACom%20201 7%20Proceedings /Main/papers/22 99.pdf
55	Neelam Ruhil		Advanced Medicine Vending Machine for Highways	11th INDIACom 2017	International Conference On Computing For Sustainable Global Development,	International	2017	ISSN NO : 2249-7455	Dronacharya College of Engineering, Gurgaon	IEEE	http://bvicam.in/INDIACom/news/INDIACom%20201 7%20Proceedings /Main/papers/23 00.pdf
56	Neelam Ruhil		Anti-Collision System	11th INDIACom 2017	International Conference On Computing For Sustainable Global Development,	International	2017	ISBN: 978-1665-4076-94	Dronacharya College of Engineering, Gurgaon	IEEE	http://bvicam.in/INDIACom/news/INDIACom%20201 7%20Proceedings /Main/papers/25 18.pdf
57	Parul Bansal		Smart Solar Device to Reduce toxic Gases from Environment	11th INDIACom 2017	International Conference On Computing For Sustainable Global Development,	International	2017	ISBN: 978-1665-4076-94	Dronacharya College of Engineering, Gurgaon	IEEE	http://bvicam.in/INDIACom/news/INDIACom%20201 7%20Proceedings /Main/papers/22 99.pdf

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58	Parul Bansal		Advanced Medicine Vending Machine for Highways	11th INDIACom 2017	International Conference On Computing For Sustainable Global Development,	International	2017	ISSN NO : 2249-7455	Dronacharya College of Engineering, Gurgaon	IEEE	http://bvicam.in/INDIACom/news/INDIACom%202017%20Proceedings/Main/papers/2300.pdf
59	Sarita Gulia		Overview: Human-Computer Interaction An Globally Uses Technique In Society	Second International Conference on Research in Intelligent and Computing in Engineering	Second International Conference on Research in Intelligent and Computing in Engineering	International	2017	ISBN: 978-83-65750-05-1	Dronacharya College of Engineering, Gurgaon	Springer	https://www.researchgate.net/publication/317493260_Overview_Human-Computer_Interaction_an_Globally_Used_Technique_in_Society
60	Sarita Gulia		A Review Paper On Cloud Computing And Its Security Concerns	Second International Conference on Research in Intelligent and Computing in Engineering	Second International Conference on Research in Intelligent and Computing in Engineering	International	2017	ISBN: 978-83-65750-05-1	Dronacharya College of Engineering, Gurgaon	ACSIS	https://www.researchgate.net/publication/317495199_A_Review_Paper_on_Cloud_Computing_and_Its_Security_Concerns
61	Vineet Kumar Mishra	Investigation on Fluid Flow and Heat Transfer through Microchannel	_	_	_		2017	ISBN: 9783330030299	Dronacharya College of Engineering, Gurugram	LAP Lambert Academic Publishing	https://www.lap-publishing.com/catalog/details/store/tr/book/978-3-330-03029-9/investigation-on-fluid-flow-and-heat-transfer-through-microchannel

Principal
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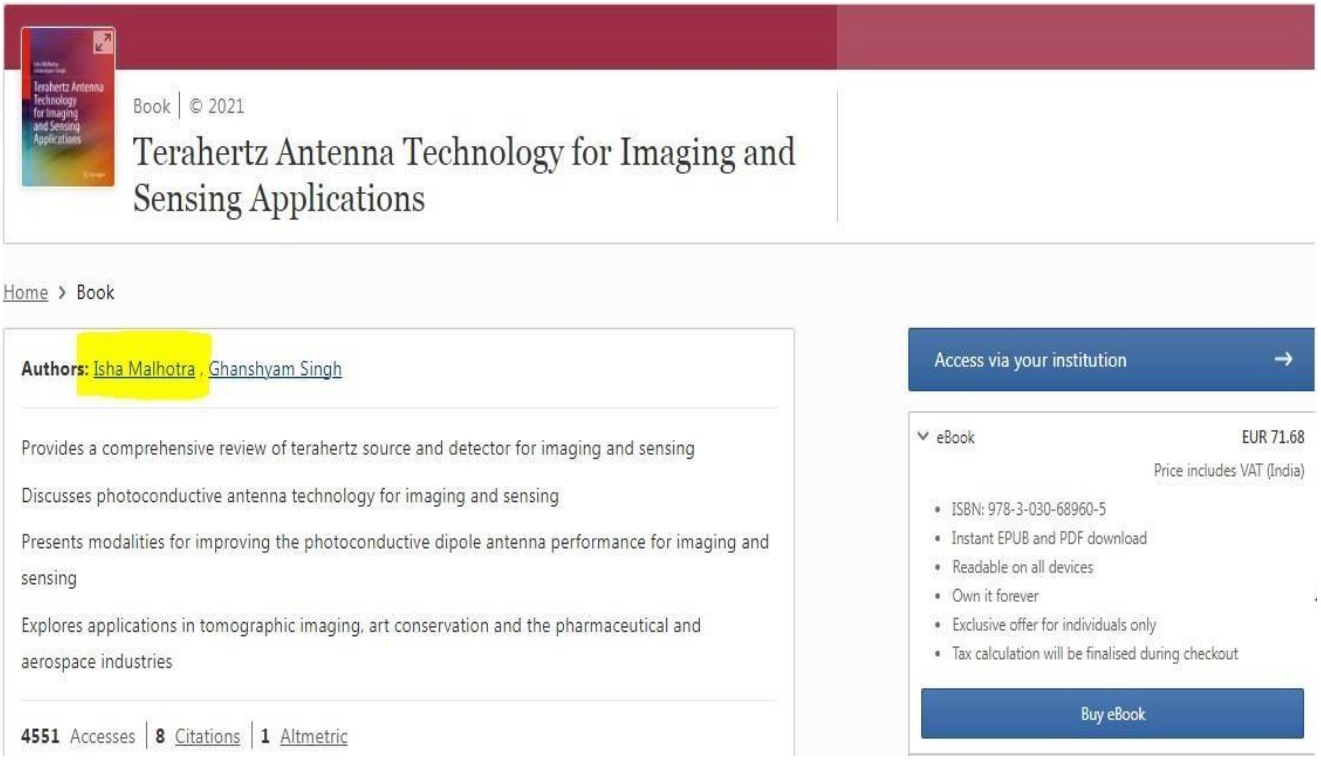
Farrukh Nagar, Gurgaon.

Title of the book/chapters published: Terahertz Antenna Technology for Imaging and Sensing Applications

Title of the paper: Terahertz Near-Field Imaging and Sensing

Name of the teacher: Dr. ISHA MALHOTRA



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Terahertz Antenna Technology for Imaging and Sensing Applications

Home › Book

Authors: Isha Malhotra , Ghanshyam Singh

Provides a comprehensive review of terahertz source and detector for imaging and sensing

Discusses photoconductive antenna technology for imaging and sensing

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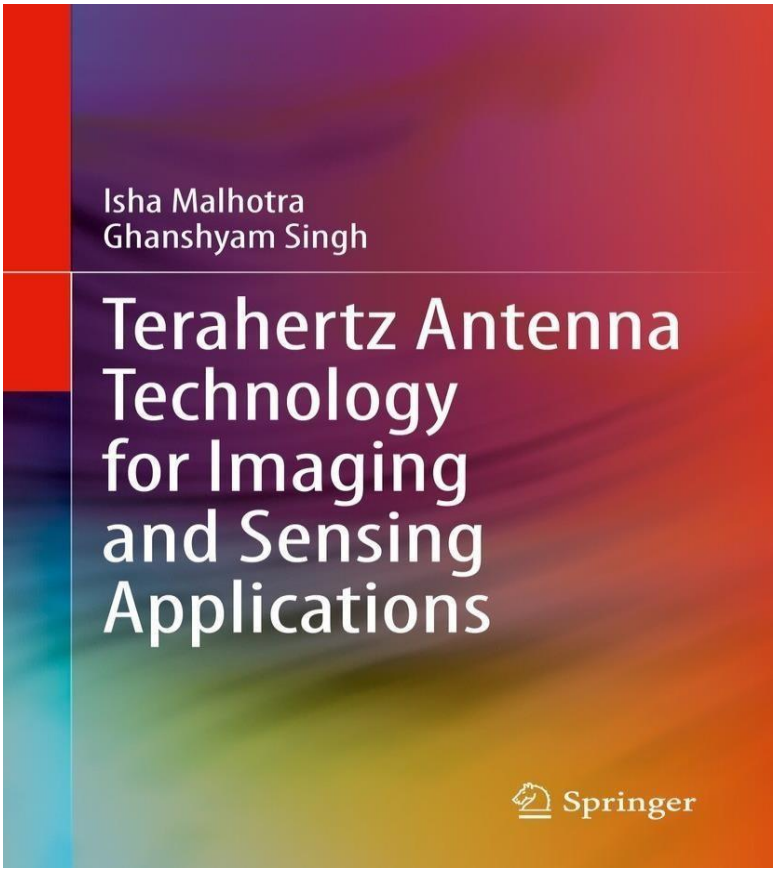
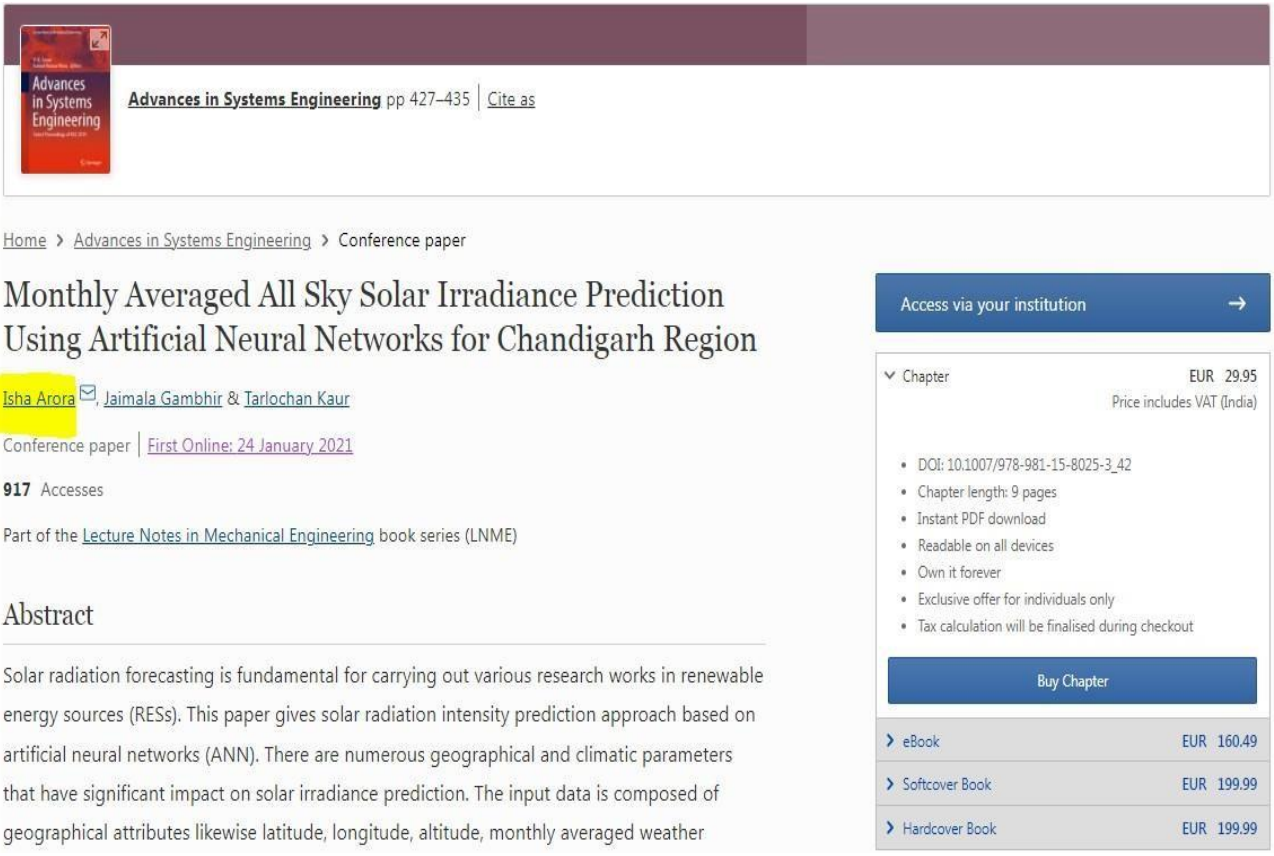


Title of the book/chapters published: Advances in Systems Engineering

Title of the paper: Monthly Averaged All Sky Solar Irradiance Prediction Using Artificial Neural Networks for Chandigarh Region

Name of the teacher: Isha Arora



Advances in Systems Engineering pp 427–435 | Cite as

Home › Advances in Systems Engineering › Conference paper

Monthly Averaged All Sky Solar Irradiance Prediction Using Artificial Neural Networks for Chandigarh Region

Isha Arora, Jaimala Gambhir & Tarlochan Kaur

Conference paper | First Online: 24 January 2021

Part of the Lecture Notes in Mechanical Engineering book series (LNME)

Abstract

Solar radiation forecasting is fundamental for carrying out various research works in renewable energy sources (RESs). This paper gives solar radiation intensity prediction approach based on artificial neural networks (ANN). There are numerous geographical and climatic parameters that have significant impact on solar irradiance prediction. The input data is composed of geographical attributes likewise latitude, longitude, altitude, monthly averaged weather

Principal
Dronacharya College of Engineering
Farrukh Nagar, Gurgaon.

Title of the book/chapters published: A Review on Smartwatch for Paralytic and Critically Aged Persons

Name of the teacher: Dr. Ekta Thakur

Name of the conference: 6th International Conference on Communication and Electronics Systems (ICCES)

A Review on Smartwatch for Paralytic and Critically Aged Persons

Publisher: IEEE | Cite This | PDF

Shiksha ; Supriya Sharma ; Ekta Thakur ; Isha Malhotra All Authors

82 Full Text Views

Abstract

Document Sections

I. Introduction

II. Ease of Use

III. Sensor Data Assemblage and Analytics with Iot Core

IV. Different Applications of Smartwatch

V. Conclusion

Authors

Figures

References

Keywords

Abstract:
In this editorial, a novel approach to support the health of the paralytic old persons in everyday living is presented. As per WHO the number of aged persons is on the rise all across the world. Despite affording medical facility sometimes it becomes difficult to take care of the patient round the clock. A simple interface smartwatch, easy to use technical function could be of great help as it would be less confusing to elders/patients. The people living alone are highly prone to any kind of disease and have a higher risk of heart attack or they might fall. If no one is around it can result in an emergency site. The individual can sec0075re himself/herself by pressing the switch accordingly it produces assists with debilitating the individual. Pulse rate sensor, GSM module, motion, and temperature sensor would be used to record the data of the patients and sending signals. Smartwatches can be helpful while dealing with most cases, as they are easy to handle, affordable, and can be easily accessible.

Published in: 2021 6th International Conference on Communication and Electronics Systems (ICCES)

Date of Conference: 08-10 July 2021

INSPEC Accession Number: 21012947

Date Added to IEEE *Xplore*: 02 August 2021

DOI: 10.1109/ICCES51350.2021.9489120

ISBN Information:

Publisher: IEEE

Conference Location: Coimbatre, India

Principal
Dronacharya College of Engineering
Farrukh Nagar, Gurgaon.

Title of the book/chapters published: Review On Application Of Drone Systems In Agriculture

Name of the teacher: Dr. Ekta Thakur

Name of the conference: 6th International Conference on Signal Processing, Computing and Control (ISPCC)

Review On Application Of Drone Systems In Agriculture

Publisher: IEEE | Cite This | PDF

Supriya Sharma ; Shiksha Solanki ; Kavita Aswal ; Ekta Thakur ; Isha Malhotra **All Authors**

370 Full Text Views

Abstract

Document Sections

I. Introduction

II. Literature Survey

III. Unmanned Aerial Vehicle

IV. Advantages of Drone

V. Essential Principle - How Does Drone Work?

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References

Keywords

Abstract:
As the world population is increasing day by day so is the need of the people, especially food which act as an important element in day-to-day survival. One of the mainkind of revenue in India is Agriculture. The creation pace of harvests in horticulture depends on different boundaries like temperature, mugginess, downpour, which are common variables and not in farmer's control. The field of horticulture is additionally relying upon some of the components like bugs, sickness, manures, and so on which can be controlled by taking appropriate majors to crop. The primary point of this paper is to review about the numerous drone available. In this paper, we are going to diverse designs dependent on automated flying vehicles (UAVs). The use of advanced technology as a drone in agriculture offers the ability to deal with a variety of major or minor challenges.Majordrone applications in agriculture are irrigation, crop observance, field analysis, and bird management.

Published in: 2021 6th International Conference on Signal Processing, Computing and Control (ISPCC)

Date of Conference: 07-09 October 2021

INSPEC Accession Number: 21439028

Date Added to IEEE *Xplore*: 18 November 2021

DOI: 10.1109/ISPCC53510.2021.9609383

ISBN Information:

Publisher: IEEE

ISSN Information:

Conference Location: Solan, India

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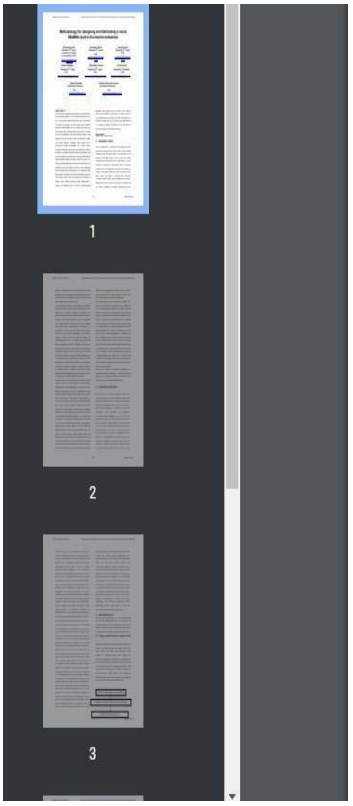
Title of the paper: Methodology for designing and fabricating a novel SEABIN used in the marine industries

Name of the teacher: Neha Chauhan

Name of the conference: 10th International Conference on Advancements in Engineering and Technology (ICAET-2022)



Methodology for designing and fabricating a novel SEABIN used in the marine industries

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Yudhveer Kumar Verma
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ABSTRACT

One of the most significant issues facing our world right now is the extreme pollution of our seas and waterways. Every day, a large amount of rubbish and plastic waste is poured into our oceans. In actuality, the ocean receives fourteen billion pounds of trash annually, most of it plastic. One of the top three threats to the continuing health of the ocean is it (along lubricants and detergents from the surface water. Because they are less expensive to run, involve less labor, and are a more natural manner of cleaning, sea bins are preferable to alternative methods now in use. The goal of the Seabin project is to promote a healthy, sustainable way of living and to increase awareness of environmental health.

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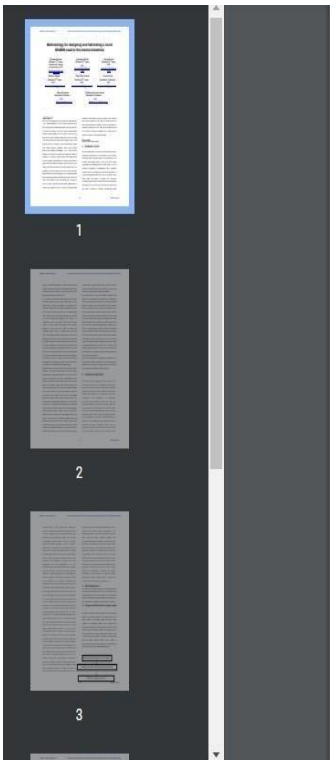
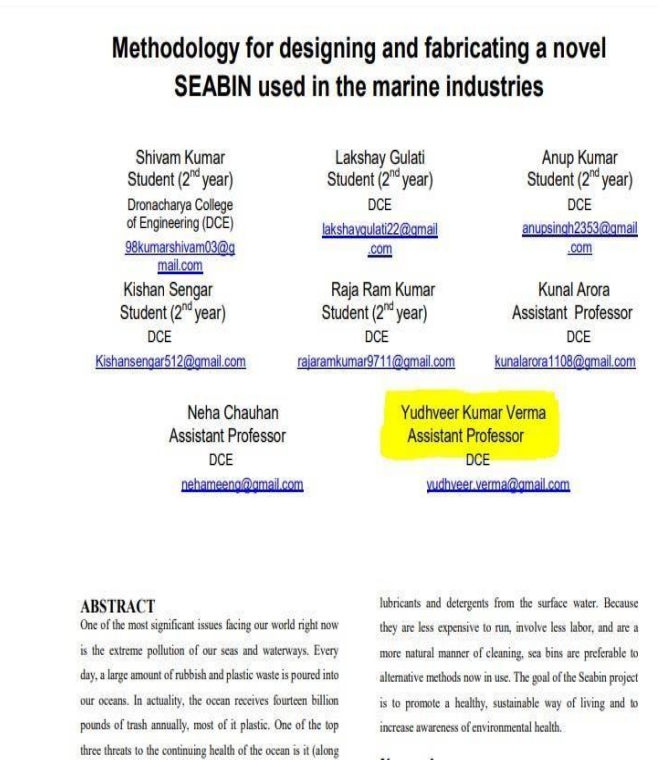
Farrukh Nagar, Gurgaon.

Title of the paper: Methodology for designing and fabricating a novel SEABIN used in the marine industries

Name of the teacher: Yudhveer Kumar Verma

Name of the conference: 10th International Conference on Advancements in Engineering and Technology (ICAET-2022)





Methodology for designing and fabricating a novel SEABIN used in the marine industries

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Yudhveer Kumar Verma
Assistant Professor
DCE
yudhveer.verma@gmail.com

ABSTRACT

One of the most significant issues facing our world right now is the extreme pollution of our seas and waterways. Every day, a large amount of rubbish and plastic waste is poured into our oceans. In actuality, the ocean receives fourteen billion pounds of trash annually, most of it plastic. One of the top three threats to the continuing health of the ocean is it (along lubricants and detergents from the surface water. Because they are less expensive to run, involve less labor, and are a more natural manner of cleaning, sea bins are preferable to alternative methods now in use. The goal of the Seabin project is to promote a healthy, sustainable way of living and to increase awareness of environmental health.

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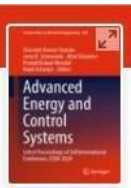
Title of the book/chapters published: Advanced Energy and Control Systems

Title of the paper: Electricity Price Forecasting Using LSTM Network and K-Means Clustering by Considering the Effect of Wind Power Generation

Name of the teacher: Dr. JYOTHI VARANASI



Advanced Energy and Control Systems pp 29–41 | Cite as

Electricity Price Forecasting Using LSTM Network and K-Means Clustering by Considering the Effect of Wind Power Generation

Jyothi Varanasi & M. M. Tripathi

Conference paper | First Online: 04 January 2022

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Part of the Lecture Notes in Electrical Engineering book series (LNEE,volume 820)

Abstract

Deregulation of the electricity market offers minimum electricity prices to consumers and benefits utility companies with increased gains. Market participants (suppliers and consumers)

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Title of the book/chapters published: Printed Antennas

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Name of the teacher: Dr. Ekta Thakur

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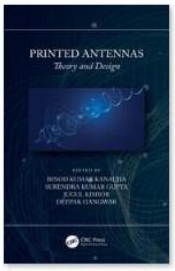

Chapter

Advances in Patch Antenna Design Using EBG Structures

By Ekta Thakur, Naveen Jaglan, Samir Dev Gupta, Binod Kumar Kanaujia

Book Printed Antennas

Edition	1st Edition
First Published	2020
Imprint	CRC Press
Pages	38
eBook ISBN	9780367420451

Principal
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Farrukh Nagar, Gurgaon.

Title of the paper: Advances in Systems Engineering

Name of the teacher: Isha Arora

Name of the conference: Monthly Averaged All Sky Solar Irradiance Prediction Using Artificial Neural Networks for Chandigarh Region

Advances in Systems Engineering pp 427–435 | Cite as

Monthly Averaged All Sky Solar Irradiance Prediction Using Artificial Neural Networks for Chandigarh Region

Isha Arora, Jaimala Gambhir & Tarlochan Kaur

Conference paper | First Online: 24 January 2021

917 Accesses

Part of the Lecture Notes in Mechanical Engineering book series (LNME)

Abstract

Solar radiation forecasting is fundamental for carrying out various research works in renewable energy sources (RESs). This paper gives solar radiation intensity prediction approach based on artificial neural networks (ANN). There are numerous geographical and climatic parameters that have significant impact on solar irradiance prediction. The input data is composed of

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Title of the book/chapters published: Solar Irradiance Forecasting using Decision Tree and Ensemble Models

Name of the teacher: Isha Arora

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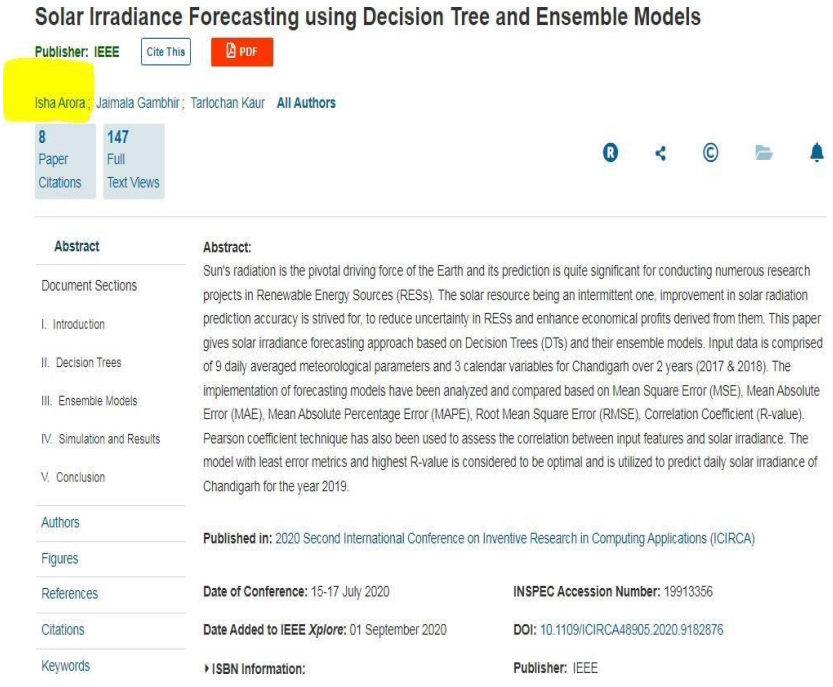

Solar Irradiance Forecasting using Decision Tree and Ensemble Models

Publisher: IEEE | Cite This | PDF

Isha Arora ; Jaimala Gambhir ; Tarlochan Kaur All Authors

8 Paper Citations | 147 Full Text Views

Abstract
Document Sections
I. Introduction
II. Decision Trees
III. Ensemble Models
IV. Simulation and Results
V. Conclusion
Authors
Figures
References
Citations
Keywords

Abstract:
Sun's radiation is the pivotal driving force of the Earth and its prediction is quite significant for conducting numerous research projects in Renewable Energy Sources (RESs). The solar resource being an intermittent one, improvement in solar radiation prediction accuracy is strived for, to reduce uncertainty in RESs and enhance economical profits derived from them. This paper gives solar irradiance forecasting approach based on Decision Trees (DTs) and their ensemble models. Input data is comprised of 9 daily averaged meteorological parameters and 3 calendar variables for Chandigarh over 2 years (2017 & 2018). The implementation of forecasting models have been analyzed and compared based on Mean Square Error (MSE), Mean Absolute Error (MAE), Mean Absolute Percentage Error (MAPE), Root Mean Square Error (RMSE), Correlation Coefficient (R-value). Pearson coefficient technique has also been used to assess the correlation between input features and solar irradiance. The model with least error metrics and highest R-value is considered to be optimal and is utilized to predict daily solar irradiance of Chandigarh for the year 2019.

Published in: 2020 Second International Conference on Inventive Research in Computing Applications (ICIRCA)

Date of Conference: 15-17 July 2020
INSPEC Accession Number: 19913356
Date Added to IEEE *Xplore*: 01 September 2020
DOI: 10.1109/ICIRCA48905.2020.9182876
ISBN Information:
Publisher: IEEE

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Title of the book/chapters published: Terahertz Antenna Technology for Imaging and Sensing Applications

Title of the paper: Terahertz Near-Field Imaging and Sensing

Name of the teacher: Isha Malhotra

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Terahertz Antenna Technology for Imaging and Sensing Applications

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Authors: Isha Malhotra , Ghanshyam Singh

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Discusses photoconductive antenna technology for imaging and sensing

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Explores applications in tomographic imaging, art conservation and the pharmaceutical and aerospace industries

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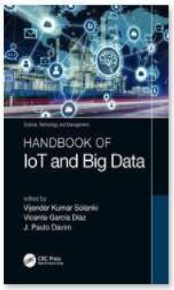
Title of the paper: Learner to Advanced: Big Data Journey

Name of the teacher: Neha Singla



Chapter

Learner to Advanced: Big Data Journey

By Meenu Gupta, Neha Singla

Book Handbook of IoT and Big Data

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	19
eBook ISBN	9780429053290

Principal
Dronacharya College of Engineering
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Title of the paper: A technical review on application oriented comparative study of IoT, IoNT, and IoBNT

Name of the teacher: Neha Verma

Name of the conference: 2021 6th International Conference on Communication and Electronics Systems (ICCES)

A technical review on application oriented comparative study of IoT, IoNT, and IoBNT

Publisher: IEEE | Cite This | PDF

Nitin Kumar ; Anuradha ; Neha Verma ; Isha Malhotra All Authors

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Abstract

Document Sections

I. Introduction

II. Technical Background

III. Different Perceptions and Views on Iont

IV. Challenges in Engineering Molecular Communication System

V. Iot Enabling Technologies

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Abstract:
This paper proposes a comparative study on the assorted forms of the Internet of Things (IoT) setup. This paper primarily focuses on 3 prime progressive variants of the most recent technology of this field particularly, net of Things (IoT), net of Nano Things (IoNT), and net of Bio-nano Things (IoBNT). Whereas discussing the key attributes of every, their benefits, disadvantages, and application perspective also are mentioned and mentioned briefly. With the preparation and more demand of higher communication linkups, the best and quickest technologies are noticeably vital to settle on for the best setup to the communication devices so the system remains compact nonetheless economical. The prime objective of the review paper is to produce an AN correct analysis for the choice of IoT and its variant for multiple application areas as per today's demand.

Published in: 2021 6th International Conference on Communication and Electronics Systems (ICCES)

Date of Conference: 08-10 July 2021

INSPEC Accession Number: 21012969

Date Added to IEEE *Xplore*: 02 August 2021

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ISBN Information:

Publisher: IEEE

Conference Location: Coimbatre, India

Principal
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Title of the book/chapters published: Revisiting English Romantic Poetry

Title of the paper: REFLECTIONS OF DEEP-ROOTED FRUSTRATION AND LONESOME CHILDHOOD IN THE POETRY OF S.T. COLERIDGE

Name of the teacher: Parul Mishra

REFLECTIONS OF DEEP-ROOTED FRUSTRATION AND LONESOME CHILDHOOD IN THE POETRY OF S.T. COLERIDGE

Dr Parul Mishra

2020, Upanyan Publications

The identical occurrence apprehended almost all popular literature of the world. The inner emotion generally transpires many ways of art and piece might be poetry. The first sloka of Sanskrit articulated by Valmiki's mouth is supposed to the birth of rhyme in Sanskrit verse. The death of a bird potentiated him to utter few lines and it initiated history. Saint Valmiki once headed out to take a bath in Tamasa river but before it he along with his student went to applaud the natural beauty and eye witnessed the tragic episode of bird's death. The tragic feelign and sinht filled his heart to field verse.

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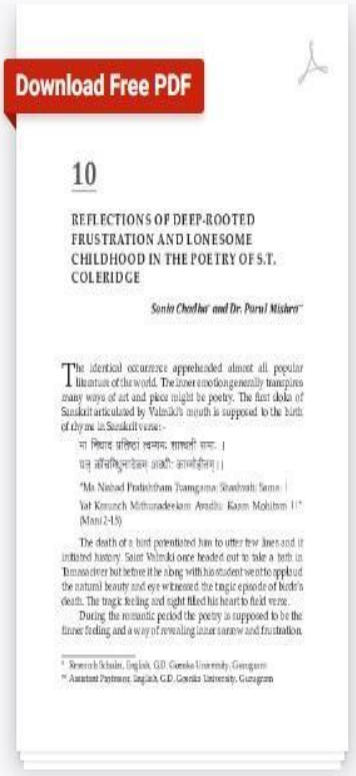

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Title of the book/chapters published: Terahertz Antenna Technology for Imaging and Sensing Applications

Title of the paper: Highly Directive Lens-Less Photoconductive Dipole Antenna Array for Imaging Applications

Name of the teacher: Dr. ISHA MALHOTRA

Terahertz Antenna Technology for Imaging and Sensing Applications pp 187–202 | Cite as

Home > Terahertz Antenna Technology for Imaging and Sensing Applications > Chapter

Highly Directive Lens-Less Photoconductive Dipole Antenna Array for Imaging Applications

Isha Malhotra & Ghanshyam Singh

Chapter | First Online: 12 May 2021

Abstract

In this chapter, a highly directive small-gap photoconductive dipole array antenna is presented for imaging system operating at terahertz frequencies. The array antenna is formed on a single photoconductive substrate to make it compact and suitable for terahertz imaging applications. The presented photoconductive dipole array antenna improves the gain as well as directivity;

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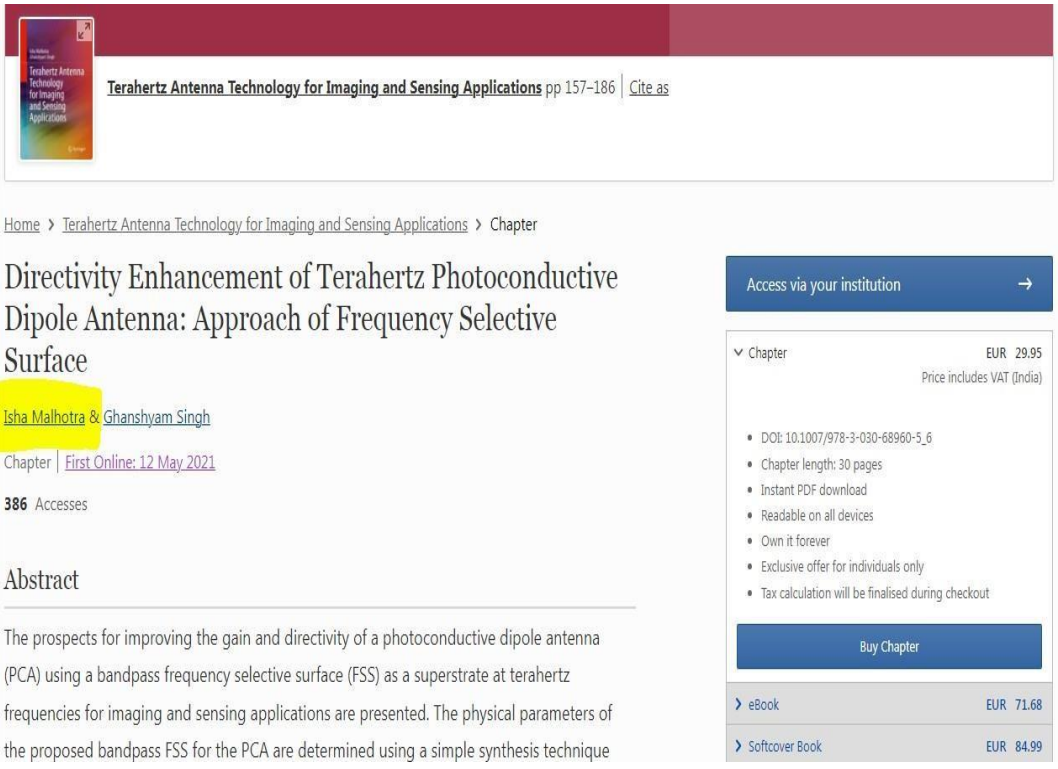
Title of the book/chapters published: Terahertz Antenna Technology for Imaging and Sensing Applications

Title of the paper: Directivity Enhancement of Terahertz Photoconductive Dipole Antenna: Approach of Frequency Selective Surface

Name of the teacher: Dr. ISHA MALHOTRA



Terahertz Antenna Technology for Imaging and Sensing Applications pp 157–186 | Cite as

Home › Terahertz Antenna Technology for Imaging and Sensing Applications › Chapter

Directivity Enhancement of Terahertz Photoconductive Dipole Antenna: Approach of Frequency Selective Surface

Isha Malhotra & Ghanshyam Singh

Chapter | First Online: 12 May 2021

Abstract

The prospects for improving the gain and directivity of a photoconductive dipole antenna (PCA) using a bandpass frequency selective surface (FSS) as a superstrate at terahertz frequencies for imaging and sensing applications are presented. The physical parameters of the proposed bandpass FSS for the PCA are determined using a simple synthesis technique

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Title of the book/chapters published: Terahertz Antenna Technology for Imaging and Sensing Applications

Title of the paper: Analytical Framework of Small-Gap Photoconductive Dipole Antenna: An Equivalent Circuit Model

Name of the teacher: Dr. ISHA MALHOTRA

Terahertz Antenna Technology for Imaging and Sensing Applications pp 129–155 | Cite as

Home › Terahertz Antenna Technology for Imaging and Sensing Applications › Chapter

Analytical Framework of Small-Gap Photoconductive Dipole Antenna: An Equivalent Circuit Model

Isha Malhotra & Ghanshyam Singh

Chapter | First Online: 12 May 2021

376 Accesses

Abstract

A compact planar antenna sources with on-chip fabrication and high directivity in order to achieve large depth-of-field for better image resolution is the prospective demand for terahertz imaging application. Therefore, in this chapter, small-gap photoconductive dipole antennas have been explored to fulfill such applications demand. However, there are certain

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Title of the paper: Terahertz Technology for Biomedical Application

Name of the teacher: Dr. ISHA MALHOTRA

Terahertz Antenna Technology for Imaging and Sensing Applications pp 39–73 | Cite as

Terahertz Imaging Modalities: State-of-the Art and Open Challenges

Isha Malhotra & Ghanshyam Singh

Chapter | First Online: 12 May 2021

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Abstract

This chapter discusses the state-of-the-art and open research challenges of the terahertz imaging modalities in terms of transmission-type and reflection-type imaging. The terahertz spectrum is a rich source of material information and allows the identification of material species such as bacterial spores hidden inside optically opaque material. Since the terahertz

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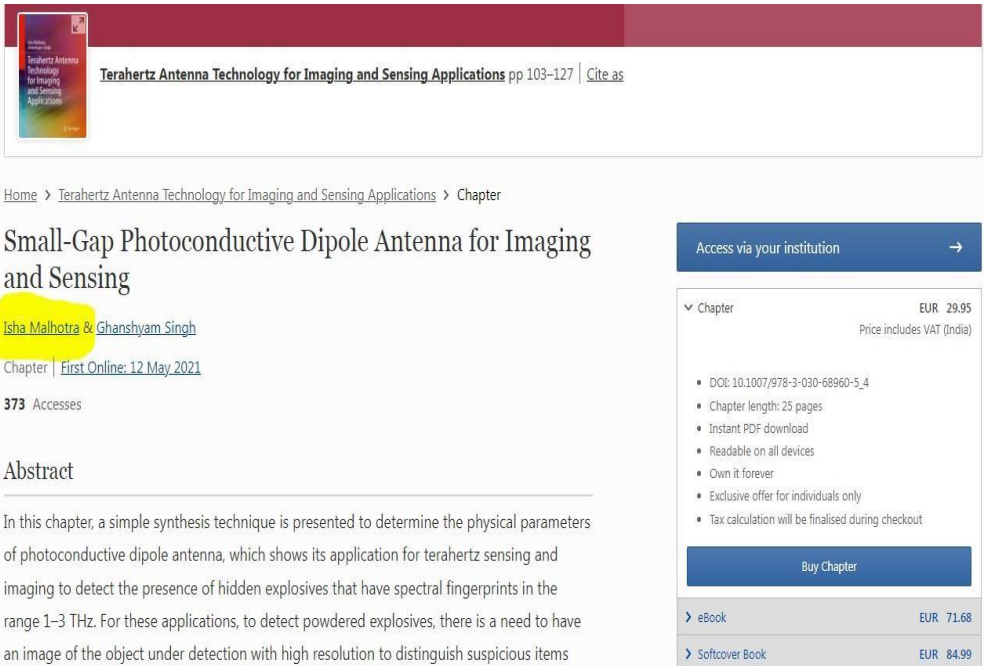
Title of the paper: Small-Gap Photoconductive Dipole Antenna for Imaging and Sensing

Name of the teacher: Dr. ISHA MALHOTRA



Terahertz Antenna Technology for Imaging and Sensing Applications pp 103–127 | Cite as

Home › Terahertz Antenna Technology for Imaging and Sensing Applications › Chapter

Small-Gap Photoconductive Dipole Antenna for Imaging and Sensing

Isha Malhotra & Ghanshyam Singh

Chapter | First Online: 12 May 2021

373 Accesses

Abstract

In this chapter, a simple synthesis technique is presented to determine the physical parameters of photoconductive dipole antenna, which shows its application for terahertz sensing and imaging to detect the presence of hidden explosives that have spectral fingerprints in the range 1–3 THz. For these applications, to detect powdered explosives, there is a need to have an image of the object under detection with high resolution to distinguish suspicious items

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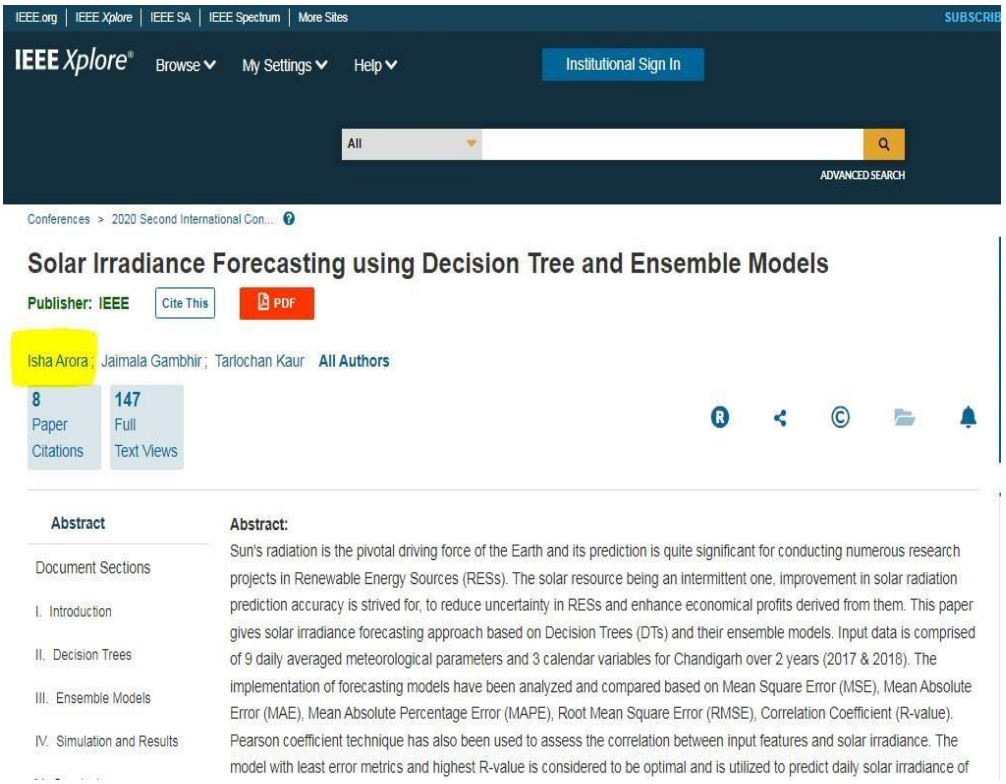
Title of the paper: Solar Irradiance Forecasting using Decision Tree and Ensemble Models

Name of the teacher: Isha Arora

Name of the conference: 2020 Second International Conference on Inventive Research in Computing Applications (ICIRCA)



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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Optimisation of process parameters of orbital EDM

Name of the teacher: Abhinav Panwar

Chapter

Optimisation of process parameters of orbital EDM

By Akshay Diwan, Abhinav Panwar, Poshan Lal Sahu

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

Electric Discharge Machining (EDM) is widely accepted process to machine hard materials such as composites and alloys being used in various industrial applications. Various methods have been employed so far to improve its performance measures such as Material Removal Rate (MRR), Tool Wear Rate (TWR) and Surface Roughness (SR).The purpose of present study is to investigate the effects of various process parameters such as peak current, pulse on time, pulse off time, speed of rotation of tool and flushing pressure on performance measures such as MRR, TWR and SR.. Taguchi method has been adopted to design the

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Cloud Reports tool to implement IaaS framework with location-based authentication in cloud

Name of the teacher: Ashima Mehta

Chapter

CloudReports tool to implement IaaS framework with location-based authentication in cloud

By Ashima Mehta, Surya Narayan Panda

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

There are many ways to setup Cloud environment and understand it by the concept of virtualization. In this paper CloudReports tool has been discussed to simulate cloud environments and simultaneously generate various kinds of reports and help researchers to carry out experiments in this domain. Location based authentication is one of the methods that helps to ensure the authenticity of the user. GPS (Global Positioning System) is used to get the geographical location of the users and only those end users can use

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: SLA penalty and reward strategy for cloud computing

Name of the teacher: Ashima Mehta

Chapter

SLA penalty and reward strategy for cloud computing

By Pooja Tiwari, Ashima Mehta

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

Cloud Computing is basically idea about to share the resources, so in order to maintain the balance between the cloud user and cloud provider, there present a service level agreement in between of them. In this paper our objective is to discuss the Penalty and Reward Provision for cloud environment. In addition while the previous in literature seen Penalty provision on breach of SLA by violating services. Earlier researcher researched on various strategies for penalty calculation on violation done from the cloud SP side. So now in this paper we have discussed the penalty provision on cloud SU and the new concept of rewards for cloud SP

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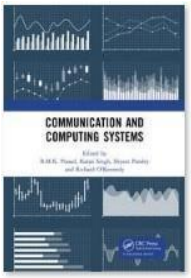
Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Empowering IoT with cloud technology

Name of the teacher: Ashima Mehta



Chapter

Empowering IoT with cloud technology

By Ashutosh Kumar, Ashima Mehta

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

The paper in theory is an approach on the above mentioned topic. The focal point of this research paper primarily targets the benefits of integration of Internet of Things with Cloud technology. The said aim of the intercommunication among objects over an IP network is to placate the function stated for them as a connected artifact. The research done focuses on the union of cloud with IoT which is called Cloud IoT paradigm and what are their usage scenarios. However, the probing done lacks elaborate investigation of the Cloud and IoT paradigms, that hold all in all new applications, benefits, challenges and analysis problems. The challenges or the problems embody security concerns and the compatibility check between the respective systems. There are multifold problems in way of the fruitful usage of both Cloud and IoT.

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Retrospection on security in cloud computing

Name of the teacher: Ashima Mehta

Chapter

Retrospection on security in cloud computing

By Hansraj, Ashima Mehta

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	4
eBook ISBN	9780429444272

ABSTRACT

Cloud computing gives benefits on interest. In the ongoing time, Cloud Computing is profoundly requested administration due to the preferences like high registering force, less expense of administrations, superior, versatility, unwavering quality, openness just as accessibility. For this paper included concentrated graphical and methodical survey of different research work completed on Cloud Computing. These discoveries demonstrate that the examination in Cloud Computing got more consideration in the course of recent years. There are alluded abnormal state distributer's paper for better comprehension about the security issues in

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Gravitational search optimized resource allocation in underlay cognitive radio networks

Name of the teacher: Chandra Shekhar Singh

Chapter

Gravitational search optimized resource allocation in underlay cognitive radio networks

By Chandra Shekhar Singh, B.M.K. Prasad

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

This paper focuses on underlay cognitive radio network with sets of half-duplex downlink and uplink secondary users and a full-duplex cognitive base station. The secondary user shares multiple channels with the primary user. The proposed resource allocation technique maximizes the sum rate of all the secondary users based on transmit and interference power constraints. The power allocation can be performed using

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Investigation of optical properties of a-Se80-xTe20Bix (x=0, 3, 9) thin films

Name of the teacher: Deepika

Chapter

Investigation of optical properties of a-Se80-xTe20Bix (x=0, 3, 9) thin films

By Deepika, B.M.K. Prasad, Sanjay Singh

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

Amorphous samples of $Se_{80-x}Te_{20}Bi_x$ (x=0, 3, 9) glasses have been prepared using the melt quenching technique and thin film of the samples have been prepared using vacuum evaporation method. The thin film samples were characterized using XRD. The absorption and transmission spectra have been recorded on UV-Vis spectrophotometer in wavelength range 400-2500 nm and the data is analyzed to obtain refractive index, extinction coefficient, energy band gap etc. It was observed that refractive index increases while band gap decreases on increase of Bi content in Se-Te matrix. The narrowing of band gap may be due to large number

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Investigation of optical properties of a-Se80-xTe20Bix (x=0, 3, 9) thin films

Name of the teacher: Dr. Brij Mohan Kumar Prasad

Chapter

Investigation of optical properties of a-Se80-xTe20Bix (x=0, 3, 9) thin films

By Deepika, B.M.K. Prasad, Sanjay Singh

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
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eBook ISBN	9780429444272

ABSTRACT

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Title of the book/chapters published: Communication and Computing Systems

Name of the teacher: Dr. Brij Mohan Kumar Prasad

Name of the conference: Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018

Book

Communication and Computing Systems

Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018, Gurgaon, India

Edited By B.M.K. Prasad, Karan Singh, Shyam Pandey, Richard O'Kennedy

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Imprint	CRC Press
DOI	https://doi.org/10.1201/9780429444272
Pages	644
eBook ISBN	9780429444272
Subjects	Computer Science

66
Citation

Principal
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Title of the book/chapters published: Advances in Signal Processing and Communication

Title of the paper: Mathematical Analysis of Commonly Used Feeding Techniques in Rectangular Microstrip Patch Antenna

Name of the teacher: Dr. Ekta Thakur

Advances in Signal Processing and Communication pp 27–35 | Cite as

Home › Advances in Signal Processing and Communication › Conference paper

Mathematical Analysis of Commonly Used Feeding Techniques in Rectangular Microstrip Patch Antenna

Ekta Thakur, Dinesh Kumar, Naveen Jaglan, Samir Dev Gupta & Shweta Srivastava

Conference paper | First Online: 20 November 2018

967 Accesses | 2 Citations

Part of the Lecture Notes in Electrical Engineering book series (LNEE,volume 526)

Abstract

In the presented work, different feeding techniques are employed to design microstrip patch antenna for wireless applications. These feeding techniques are as follows: microstrip inset feed, quarter wavelength feed, and coaxial probe feed. Parameters valuated for comparing

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: ANALYTICAL AND EXPERIMENTAL CHARACTERIZATION OF FRICTION FORCE IN BELT MOTION

Name of the teacher: Manish Kumar Mishra

Chapter

Analytical and experimental characterization of friction force in belt motion

By Saurabh Yadav, Manish Kumar Mishra, Vineet Mishra

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

Dynamic friction force is the amount of force necessary to keep the two objects moving relative to each other. This dynamic friction force depends on several parameters, such as relative velocity, contact surface, normal load etc. the main aim of this project work is to analyze the effect of relative velocity on the dynamic friction. Till now only the analytical results regarding effect of relative velocity on dynamic friction are available which are based on several assumptions for simplifying the study. In this project, an effort has been

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Best to smart green manufacturing practices for small and medium enterprises: An importance-performance analysis

Name of the teacher: Manish Kumar Mishra

Chapter

Best to smart green manufacturing practices for small and medium enterprises: An importance-performance analysis

By Kushal Lalwani, Manish Mishra, Rajesh Mattoo

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	5
eBook ISBN	9780429444272

ABSTRACT

The time comes to consider about environment protection. To keep this point in conscious green manufacturing is consider as a major topic. Green manufacturing is focused on the bidirectional bond v between a manufacturing system and nature. In western countries countless studies have been concluded on green manufacturing practices to tackle the rising environment issues. In this paper IPA approach has been

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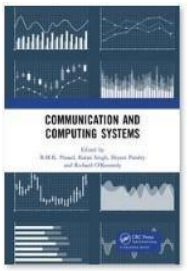
Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Algorithms to achieve maximum power for photovoltaic system

Name of the teacher: Neha Verma



Chapter

Algorithms to achieve maximum powe for photovoltaic system

By Shalini Sharma, Neha Verma

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	5
eBook ISBN	9780429444272

ABSTRACT

Due to the greenhouse effect, acid rain and much more causes recently changing the earth's climate and demand for more electricity. It shows another path to find a new source of energy that is relatively cheaper, sustainable and emits less carbon. For this solution, solar energy showed promising results. But just producing renewable energy is not sufficient, day by day we are seeking to maximize the output. Energy producing is directly proportional to the energy saving i.e. even if in existing producing system, anyhow we succeed to save energy that matters a lot.In a Solar Photovoltaic system, maximum efficiency is 44% for

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: A COMPARATIVE STUDY BETWEEN CONSTANT WEIGHT AND VARIABLE WEIGHT FINS

Name of the teacher: Poshan Lal Sahu

Chapter

A comparative study between constant weight and variable weight fins

By Yogesh Chauhan, Poshan Lal Sahu, Ananta Shrivastava

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

In the present work, comparative study between constant weight and variable weight fins has been performed. An approximate solution for the heat transfer from functionally graded annular fin is obtained. The heat transfer due to radiation has also been considered along with conduction and convection. On linear governing equation is solved using the B-spline collocation method at Gaussian quadrature collocation points.The effects of grading parameter (b),geometry parameters (n and m),radiation- conduction number (N_r), dimensionless sink temperature (θ_a) and aspect ratio (R_f) on the temperature distribution is reported. Validation is carried out with benchmark results and good agreement is observed.Moreover,the results

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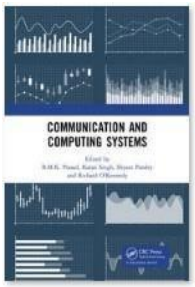
Title of the book/chapters published: Communication and Computing Systems

Title of the paper: ADIABATIC AIR WATER 2-PHASE FLOW IN CIRCULAR MICRO-CHANNEL USING HETEROGENEOUS PARTICLE SWARM OPTIMIZATION

Name of the teacher: Poshan Lal Sahu



Chapter

Adiabatic air water 2-phase flow in circular micro-channel using heterogeneous particle swarm optimization

By Sanjeev Kumar, Ananta Shrivastava, Poshan Lal Sahu

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	5
eBook ISBN	9780429444272

ABSTRACT

The goal of optimization is finding the minimum value for the target function, determining the initial values for algorithm parameters is important. In case that the initial values are not chosen rightly, the algorithm may diverge or may converge to a suboptimal solution. Important parameters in optimization algorithm

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Numerical model of inverted trapezoidal fin horizontal array heat sink for heat transfer through natural convection

Name of the teacher: Poshan Lal Sahu

Chapter

Numerical model of inverted trapezoidal fin horizontal array heat sink for heat transfer through natural convection

By Vishal Verma, Priyanka Daga, Poshan Lal Sahu

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

The objective of the present work is to develop a numerical model of inverted trapezoidal fin, horizontal array heat sink for heat transfer via free convection. The flow is assumed to be steady, laminar and uniform. The presented model is simulated at geometric parameters which go in accordance with the literature study. After validating the model parametric study for orthogonal effect of geometric parameters on heat transfer coefficient (HTC) and on heat flux (HF) is carried out. Then Design of experiment (DOE) is carried out, as a

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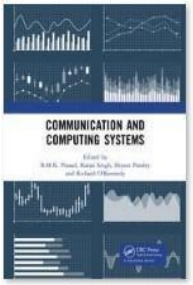
Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Study of blockchains implementation prospects in manufacturing sector

Name of the teacher: Priya Kochar



Chapter

Study of blockchains implementation prospects in manufacturing sector

By Sumit Kumar, Barkha Narang, Arun Pillai, Priya Kochar

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

This study project is focused on the study of Blockchain in various sectors primarily in manufacturing sector. Author made a detailed study related to Block chain and found out it various uses in different sectors like public sector, financial sector, etc. The main aim/objective of this white paper is to solve the problems faced by the manufacturing sector. The author uses secondary and primary sources to find out the problems and solutions for those problems by using Blockchain technology. In this study the author is able to link the various stakeholders with the manufacturing unit. This study is also helpful for the organisation to link various manufacturing processes to produce a final product which will reduce the time lag and delay in the

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Best to smart green manufacturing practices for small and medium enterprises: An importance-performance analysis

Name of the teacher: Rajesh Mattoo

Chapter

Best to smart green manufacturing practices for small and medium enterprises: An importance-performance analysis

By Kushal Lalwani, Manish Mishra, Rajesh Mattoo

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	5
eBook ISBN	9780429444272

ABSTRACT

The time comes to consider about environment protection. To keep this point in conscious green manufacturing is consider as a major topic. Green manufacturing is focused on the bidirectional bond v between a manufacturing system and nature. In western countries countless studies have been concluded on

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Designing of liding mode controller

Name of the teacher: Swati Sharma

Chapter

Designing of sliding mode controller

By Jyoti Rana, Swati Sharma

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	4
eBook ISBN	9780429444272

ABSTRACT

In this research paper I am working on "Sliding Mode Controller (CMS)". SMC is a control strategy which is not linear in nature including exceptional belongings of precision, power, and making simple changes and execution. SMS frameworks are intended to move the framework position into a particular position in the space of state, called the surface of sliding. At a point when the SS is accomplished, SMC permanents the states near to the place of the sliding surface.

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Title of the book/chapters published: Advances in Production and Industrial Engineering

Title of the paper: Influence of Nanoparticle Addition (TiO2) on Microstructural Evolution and Mechanical Properties of Friction Stir Welded AA6061-T6 Joints

Name of the teacher: Tanvir Singh

Principal
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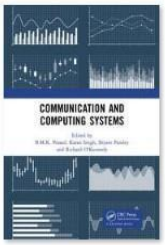
Farrukh Nagar, Gurgaon.

Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Enhancement of the property of black cotton soil using corn cob ash and iron ore tailings

Name of the teacher: Nidhi Singh



Chapter

Enhancement of the property of black cotton soil using corn cob ash and iron ore tailings

By Nidhi Singh, Tapish Chauhan

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	4
eBook ISBN	9780429444272

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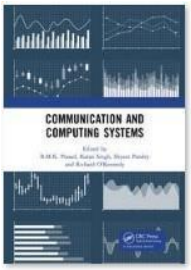
Farrukh Nagar, Gurgaon.

Title of the paper: Profit analysis of a system of non identical units with priority and preventive maintenance

Name of the teacher: Pooja Jain



Chapter

Profit analysis of a system of non identical units with priority and preventive maintenance

By Vikas Garg, Pooja Jain

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

This paper deals with a system of two unit (Original and duplicate) cold standby system with repair, preventive maintenance and priority in operation to original unit. Initially original unit is operative and duplicate unit is kept as cold standby. Duplicate unit under goes for preventive maintenance after a maximum operation time. Priority in operation is given to original unit. There is a single server who visits the system immediately as per requirements. The random variables associated to failure time, preventive

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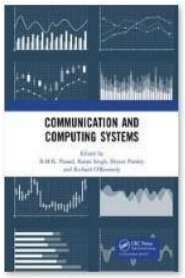
Title of the book/chapters published: Communication and Computing Systems

Title of the paper: FRP bio digester for efficient waste management

Name of the teacher: Sangeeta Singla



Chapter

FRP bio digester for efficient waste management

By Sangeeta Singla, H.A. Vinod Kumar

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

Due to the extreme urbanization, the availability of natural resources is decreasing day by day. The conventional methods of generating fuel consume much of the resources. In order to bring sustainability to these resources, efficient and economic means of generating fuel should be adopted. One such method is to use FRP bio digester to manage kitchen waste and generate fuel. At Dronacharya College of Engineering, located at Delhi-NCR- Gurgaon, FRP bio digester is installed. The waste from the college canteen, which is generated at a good amount, is utilized to create an organic processing facility which leads in the production of biogas. Biogas is cost-effective, eco-friendly, cut down the landfill waste and can generate high-quality

Principal
Dronacharya College of Engineering
Farrukh Nagar, Gurgaon.

Title of the paper: FPGA-based Development of Finite State-MPC for Three-Phase Grid-Connected VSI System

Name of the teacher: Vijay Kumar Singh

Name of the conference: ICPE-ECCE-Asia 2019

FPGA-based Development of Finite State-MPC for Three-Phase Grid-Connected VSI System

Publisher: IEEE Cite This PDF

Vijay Kumar Singh ; Ravi Nath Tripathi ; Tsuyoshi Hanamoto All Authors

107 Full Text Views

Abstract:
Power converters are used for grid integration of renewable sources that can achieve certain objectives through system control. Finite state - model predictive control (FS-MPC) is one of the techniques used for the grid integration of voltage source inverter (VSI) and possessing distinctive features such as fast dynamic performance and ability to incorporate constraints inherently. However, system development is one of the concern for FS-MPC due to computational delay problem. Field programmable gate array (FPGA) based system development is a way to tackle the mentioned problem because of its parallel processing nature. In this paper, FS-MPC is presented for three-phase grid-connected VSI system using modeling-based digital system design approach that is advantageous for analysis, easy debugging and FPGA-based system development. The integrated platform of MATLAB-Simulink and system generator is used for modeling and Hardware-in-the-Loop (HIL) simulation to validate the system.

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INSPEC Accession Number: 18923250
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DOI: 10.23919/ICPE2019-ECCEAsia42246.2019.8797276
ISBN Information:
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Principal
Dronacharya College of Engineering
Farrukh Nagar, Gurgaon.

Title of the paper: A Hardware-in–the-Loop Simulation Approach for Analysis of Permanent Magnet Synchronous Motor Drive

Name of the teacher: Vijay Kumar Singh

Name of the conference: ICPE-ECCE-Asia 2019

A Hardware-in-the-Loop Simulation Approach for Analysis of Permanent Magnet Synchronous Motor Drive

Publisher: IEEE Cite This PDF

Ipsita Mishra ; Ravi Nath Tripathi ; Vijay Kumar Singh ; Tsuyoshi Hanamoto All Authors

Abstract:
A hardware-in-the-loop (HIL)simulation approach providing a platform to develop a controller prototype as well as emulators for motor system and power electronic converters that allows rapid testing and proactive system evaluation with an advantage of low cost, safety, and flexibility to operate in extreme boundary conditions. However, the variety of HIL combinations can be adopted to realize a system model that is neither too simple nor to be highly complex to match the realistic behavior considering transient condition and steady state condition. In this paper, a discrete time simulation model of the permanent magnet synchronous motor (PMSM)drive system is presented for FPGA HIL simulation. Moreover, different combination of HIL approach is adopted for detailed performance analysis considering transient behavior of the system. The entire system is implemented using the MATLAB/Simulink and system generator platform provided by Xilinx for HIL simulation using FPGA.

Published in: 2019 10th International Conference on Power Electronics and ECCE Asia (ICPE 2019 - ECCE Asia)

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Date Added to IEEE *Xplore*: 15 August 2019
DOI: 10.23919/ICPE2019-ECCEAsia42246.2019.8797143
ISBN Information:
Publisher: IEEE
ISSN Information:
Conference Location: Busan, Korea (South)

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Dronacharya College of Engineering
Farrukh Nagar, Gurgaon.

Title of the paper: Discrete adaptive HCC based FS-MPC with constant Switching frequency for PMSM Drives

Name of the teacher: Vijay Kumar Singh

Name of the conference: International Conference on Electrical Machines and Systems

Discrete Adaptive HCC Based FS-MPC with Constant Switching Frequency for PMSM Drives

Publisher: IEEE | Cite This | PDF

Ipsita Mishra ; Ravi Nath Tripathi ; Vijay Kumar Singh ; Tsuyoshi Hanamoto All Authors

139 Full Text Views

Abstract

Document Sections

I. Introduction

II. Machine Model

III. Current Controller for PMSM Drive

IV. System Implementation

V. Peformance Validation

Show Full Outline

Authors

Figures

Abstract:
The finite set model predictive control (FS-MPC) exploits the advantages such as high dynamic response and flexibility. However, the spread spectrum due to variable switching frequency of FS-MPC is the main drawback associated with it. In this paper, a predictive control strategy with fixed switching frequency is proposed. A discrete adaptive based hysteresis current control (DAHCC) is combined with the basic FS-MPC as current controller to achieve constant switching frequency. The proposed current control strategy is implemented for voltage source inverter fed permanent magnet synchronous motor (PMSM). The system is implemented using the MATLAB/Simulink and system generator platform provided by Xilinx.

Published in: 2019 22nd International Conference on Electrical Machines and Systems (ICEMS)

Date of Conference: 11-14 August 2019

INSPEC Accession Number: 19222088

Date Added to IEEE *Xplore*: 05 December 2019

DOI: 10.1109/ICEMS.2019.8922261

ISBN Information:

Publisher: IEEE

ISSN Information:

Conference Location: Harbin, China

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Profit analysis of a system of non-identical units with priority and preventive maintenance

Name of the teacher: Vikas Garg

Chapter

Profit analysis of a system of non identical units with priority and preventive maintenance

By Vikas Garg, Pooja Jain

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

This paper deals with a system of two unit (Original and duplicate) cold standby system with repair, preventive maintenance and priority in operation to original unit. Initially original unit is operative and duplicate unit is kept as cold standby. Duplicate unit under goes for preventive maintenance after a maximum operation time. Priority in operation is given to original unit. There is a single server who visits the

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Mobile assistive application for visually impaired

Name of the teacher: Vimmi Malhotra

Chapter

Mobile assistive application for visually impaired

By Sushil Sharma, Vimmi Malhotra

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	4
eBook ISBN	9780429444272

ABSTRACT

People with fastidious blindness or could hear a pin drop vision regularly have a difficult foreshadow self-navigating beyond the bounds well-known environments. In rundown, terrestrial movement is such of the biggest challenges for confuse people. Therefore, they see basic challenges in mobility, advancement, trade and a marching to the beat of a different drummer living, which at the end of the day impacts their inclusion in the society.

They are given and taken for sensual feedback on others.

Principal
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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: ANALYTICAL AND EXPERIMENTAL CHARACTERIZATION OF FRICTION FORCE IN BELT MOTION

Name of the teacher: Vineet Mishra

Chapter

Analytical and experimental characterization of friction force in belt motion

By Saurabh Yadav, Manish Kumar Mishra, Vineet Mishra

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

Dynamic friction force is the amount of force necessary to keep the two objects moving relative to each other. This dynamic friction force depends on several parameters, such as relative velocity, contact surface, normal load etc. the main aim of this project work is to analyze the effect of relative velocity on the dynamic friction. Till now only the analytical results regarding effect of relative velocity on dynamic friction are available which are based on several assumptions for simplifying the study. In this project, an effort has been

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Coverage preserving scheduling for life span maximization in wireless sensor network based internet of things

Name of the teacher: Vinod Kumar

Chapter

Coverage preserving scheduling for life span maximization in wireless sensor network based internet of things

By Vinod Kumar, Sushil Kumar

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	8
eBook ISBN	9780429444272

ABSTRACT

Maintaining the full coverage and connectivity in a randomly distributed wireless sensor network is a difficult task. One easy solution of this problem lies in taking a large number of sensors. However, these large numbers of sensors needs to be scheduled properly for providing satisfactory coverage and connectivity and at the same time maximizing the life span of the network. The novelty of this paper lies in the proposal of establishment of a relative coordinates system in randomly distributed wireless sensor networks. Based on

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Big Data techniques: Today and tomorrow

Name of the teacher: Yashvardhan Soni

Chapter

Big Data techniques: Today and tomorrow

By Priyanka Khatana, Yashvardhan Soni

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

This paper is written before doing any practical work on the above topic. It is based on the research done on the topic- "Big Data Techniques: Today and Tomorrow". Big data refers to a large dataset which is not easy to handle or understand. We have given a brief description about the present scenario and the future scenario of big data. We are going to explain what big data is, how it came into existence, a brief about the technologies involved in data extraction. By the end of the paper we will get a basic knowledge about big data and its benefits and its use in our daily life also. This paper aims to analyze some of the different tools and techniques which can be applied to big data.

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Big Data techniques: Today and tomorrow

Name of the teacher: Priyanka Khatana

Chapter

Big Data techniques: Today and tomorrow

By Priyanka Khatana, Yashvardhan Soni

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

This paper is written before doing any practical work on the above topic. It is based on the research done on the topic- "Big Data Techniques: Today and Tomorrow". Big data refers to a large dataset which is not easy to handle or understand. We have given a brief description about the present scenario and the future scenario of big data. We are going to explain what big data is, how it came into existence, a brief about the technologies involved in data extraction. By the end of the paper we will get a basic knowledge about big data and its benefits and its use in our daily life also. This paper aims to analyze some of the different tools and techniques which can be applied to big data.

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Title of the book/chapters published: Communication and Computing Systems

Title of the paper: Study of blockchains implementation prospects in manufacturing sector

Name of the teacher: Priya Kochar

Chapter

Study of blockchains implementation prospects in manufacturing sector

By Sumit Kumar, Barkha Narang, Arun Pillai, Priya Kochar

Book Communication and Computing Systems

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272

ABSTRACT

This study project is focused on the study of Blockchain in various sectors primarily in manufacturing sector. Author made a detailed study related to Block chain and found out it various uses in different sectors like public sector, financial sector, etc. The main aim/objective of this white paper is to solve the problems faced by the manufacturing sector. The author uses secondary and primary sources to find out the problems and solutions for those problems by using Blockchain technology. In this study the author is able to link the various stakeholders with the manufacturing unit. This study is also helpful for the organisation to link various manufacturing processes to produce a final product which will reduce the time lag and delay in the

Principal
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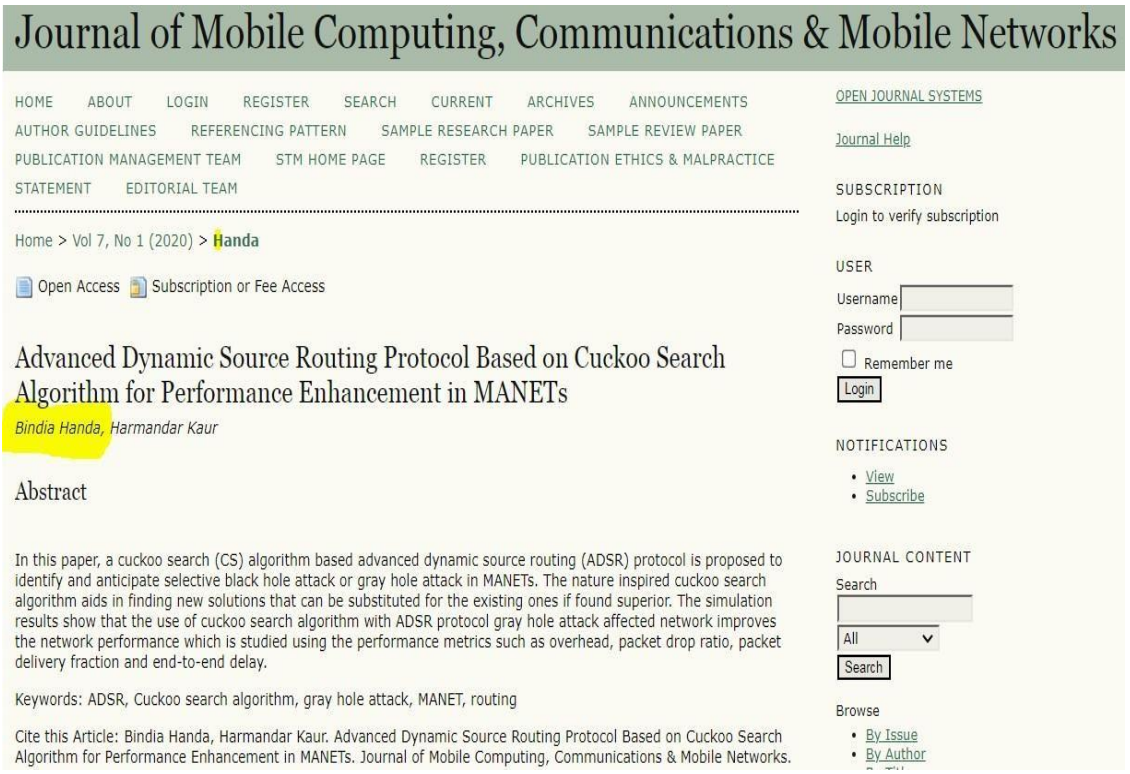
Title of the paper: Advanced Dynamic Source Routing Protocol Based on Cuckoo Search Algorithm for Performance Enhancement in MANETs

Name of the teacher: Bindia Handa

Name of the conference: 4th International Multi-Track Conference on Sciences, Engineering & Technical Innovations, CT group of Institutes, Jalandhar, Punjab, India 5-6 Oct-2018



Journal of Mobile Computing, Communications & Mobile Networks

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Advanced Dynamic Source Routing Protocol Based on Cuckoo Search Algorithm for Performance Enhancement in MANETs

Bindia Handa, Harmandar Kaur

Abstract

In this paper, a cuckoo search (CS) algorithm based advanced dynamic source routing (ADSR) protocol is proposed to identify and anticipate selective black hole attack or gray hole attack in MANETs. The nature inspired cuckoo search algorithm aids in finding new solutions that can be substituted for the existing ones if found superior. The simulation results show that the use of cuckoo search algorithm with ADSR protocol gray hole attack affected network improves the network performance which is studied using the performance metrics such as overhead, packet drop ratio, packet delivery fraction and end-to-end delay.

Keywords: ADSR, Cuckoo search algorithm, gray hole attack, MANET, routing

Cite this Article: Bindia Handa, Harmandar Kaur. Advanced Dynamic Source Routing Protocol Based on Cuckoo Search Algorithm for Performance Enhancement in MANETs. Journal of Mobile Computing, Communications & Mobile Networks.

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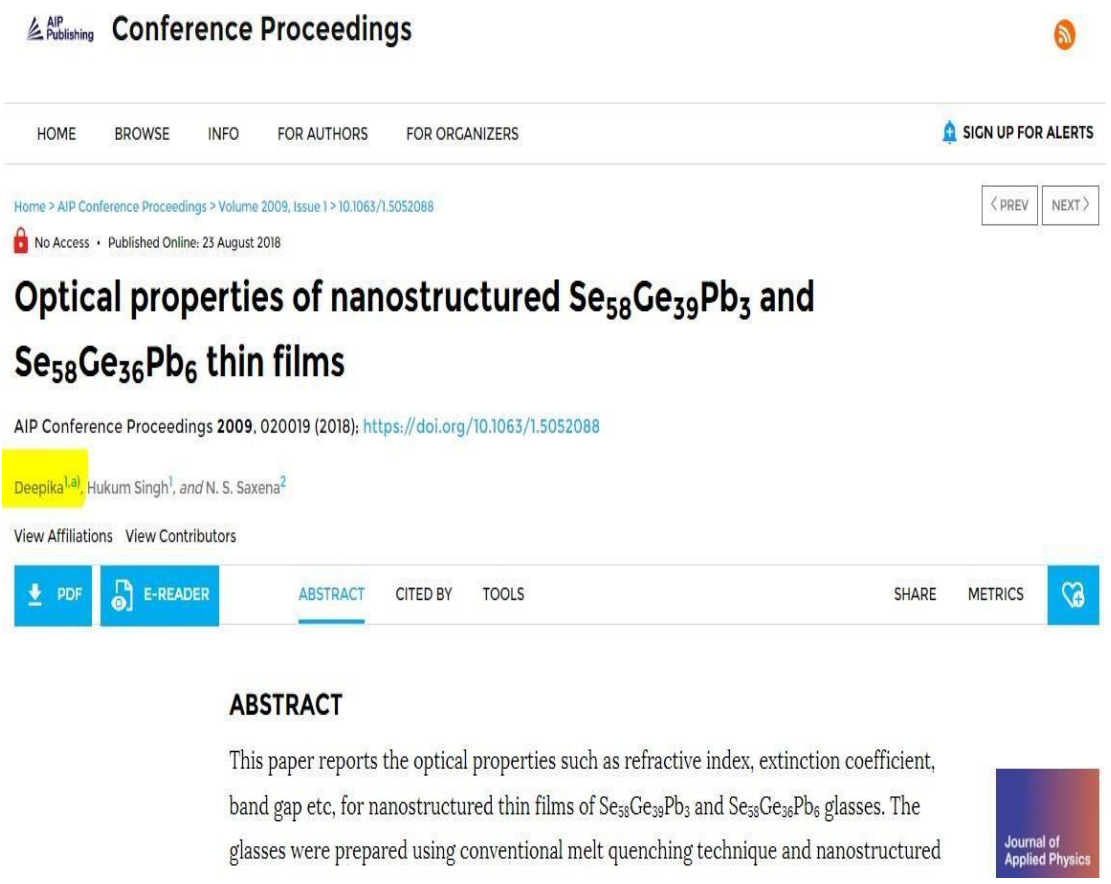
Title of the paper: Optical properties of nanostructured $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ thin films

Name of the teacher: Deepika

Name of the conference: AIP Conference Proceedings



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PREV NEXT

No Access • Published Online: 23 August 2018

Optical properties of nanostructured $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ thin films

AIP Conference Proceedings **2009**, 020019 (2018); https://doi.org/10.1063/1.5052088

Deepika[1,a], Hukum Singh[1], *and* N. S. Saxena[2]

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ABSTRACT

This paper reports the optical properties such as refractive index, extinction coefficient, band gap etc, for nanostructured thin films of $Se_{58}Ge_{39}Pb_3$ and $Se_{58}Ge_{36}Pb_6$ glasses. The glasses were prepared using conventional melt quenching technique and nanostructured

Journal of Applied Physics

Principal
Dronacharya College of Engineering
Farrukh Nagar, Gurgaon.

Title of the paper: Short Utterance Based Speaker Identification System For Resource Constrained Devices

Name of the teacher: SANGHAMITRA VIKAS ARORA

Name of the conference: 2nd International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE)

Short Utterance Based Speaker Identification System For Resource Constrained Devices

Publisher: IEEE Cite This PDF

Sanghamitra V. Arora ; Rekha Vig All Authors

43 Full Text Views

Abstract
Document Sections
I. Introduction
II. Feature extraction
III. Speaker model based on hybrid features
IV. Discussion on results
V. Conclusions
Authors
Figures
References
Keywords

Abstract:
Device manufacturers and developers are seeking viable options to enable users to interact with their wearable devices, which have a limited graphical user interface. One of the upcoming technologies in this sector is a voice user interface. But there are challenges to implementing voice-based identification methods on wearable devices due to the constrained resources. To overcome the disadvantages of short speech utterance, hybridized speech production features are proposed-Linear predictive coefficient (LPC) feature, Shifted delta cepstral (SDC) feature, Cochlea gram (CG) features, Pitch related features. A simplified version of KNN approach is used in order to classify the speakers. Overall performance of TIMIT database (which is text independent) is shown to give 97.3% recognition accuracy. The method can be useful for speaker authentication in rural areas since there would be no language barrier.

Published in: 2018 2nd International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE)

Date of Conference: 20-21 September 2018
INSPEC Accession Number: 18779636
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ISBN Information:
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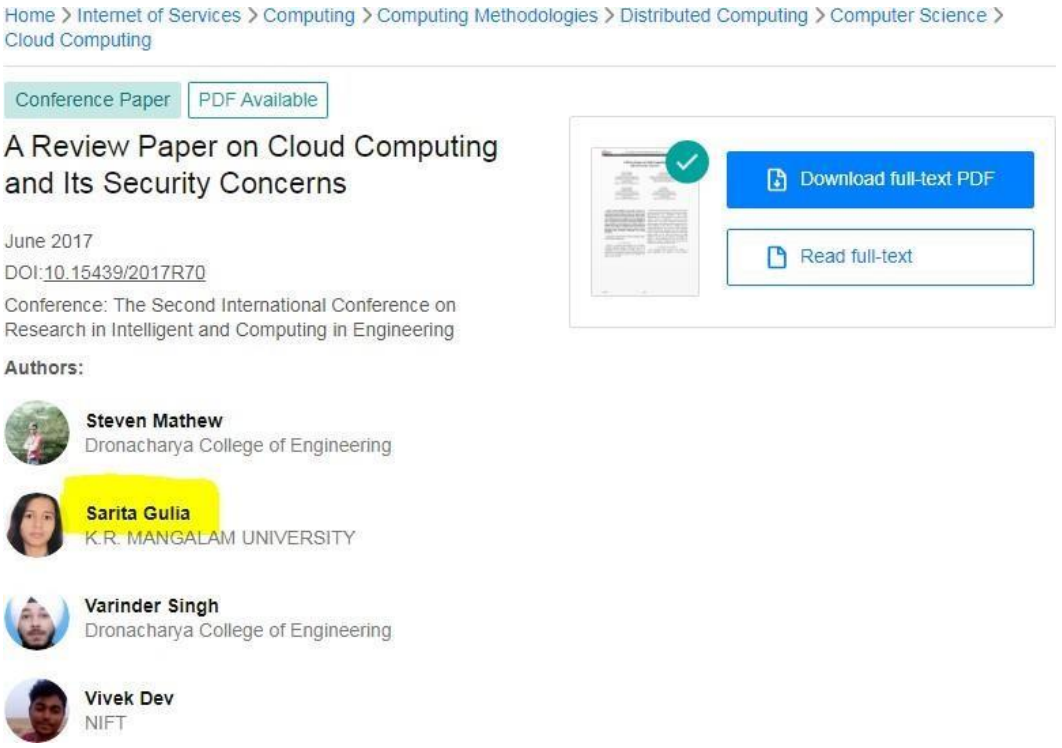
Conference Location: Ghaziabad, India

Principal
Dronacharya College of Engineering
Farrukh Nagar, Gurgaon.

Title of the paper: A Review Paper on Cloud Computing and Its Security Concerns

Name of the teacher: Sarita Gulia

Name of the conference: Second International Conference on Research in Intelligent and Computing in Engineering



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A Review Paper on Cloud Computing and Its Security Concerns

June 2017

DOI:10.15439/2017R70

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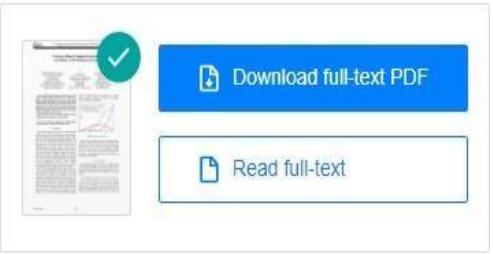

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Banasthali University

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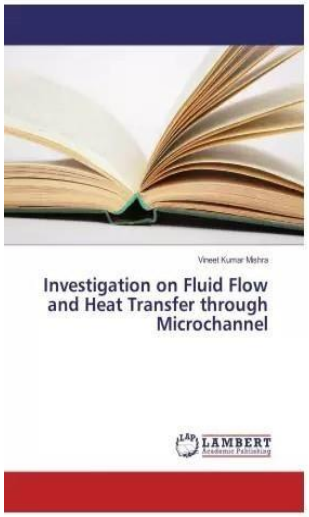
Title of the paper: Investigation on Fluid Flow and Heat Transfer through Microchannel

Name of the teacher: Vineet Kumar Mishra



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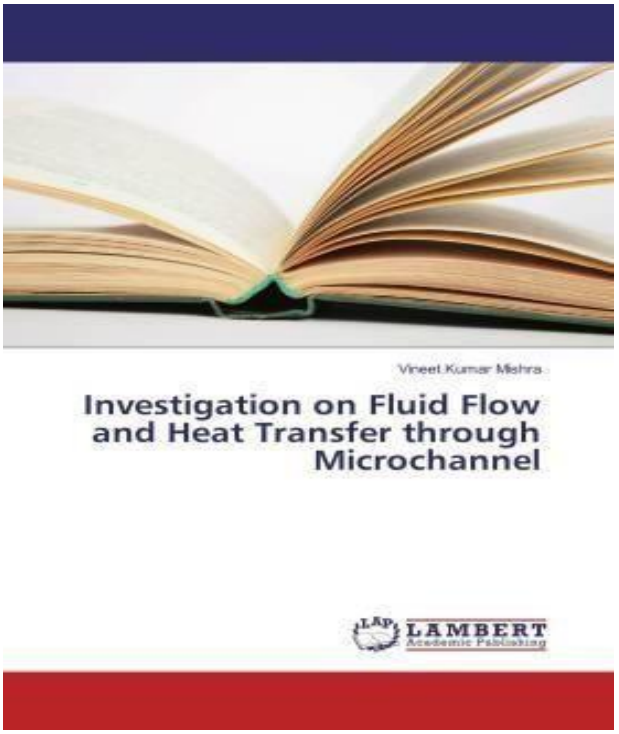

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