



NEW PRINCE SHRI BHAVANI COLLEGE OF ENGINEERING AND TECHNOLOGY

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Tambaram - Velachery Main Road, Santhosapuram, Chennai-600 073.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Ph.D.HOLDERS

S.No.	Faculty Name	Designation	University
1	Dr.R.Sasikala	Associate Professor	Sathyabama University
2	Dr.V.Srinivasan	Assistant Professor	SRM Institute of Science and Technology

FACULTY AS SUPERVISOR

S.No.	Research Supervisor	University	Ref.No.
1	Dr.S.Senthil Kumar	Anna University	4143108

FACULTY AS RESEARCH JOURNAL REVIEWERS

S.No.	Journal Reviewer	Name of the Journal	Year
1	Dr.R.Venkatasubramanian	Journal of Emerging Technologies and Innovative Research	2022-23



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FACULTY PURSUING Ph.D.

S.No.	Name of the Faculty Member	Date of Registration	Research Area	University	Name of the Supervisor	Status
1	Mrs.M.Devi	September 2021	Converters in Electric Vehicles	Bharath University	Dr.S.Lakshmi, Associate prof./EEE, Department of EEE, Bharath Institute of Higher Education and Research, Chennai . 600073	Confirmation Completed
2	Mrs.S.Ananthi	13.7.2023	Fibre Optic Sensor	Anna University	Dr.S.Kiruba Veni, Asso. Prof., Dept. of ECE, College of Engg., Guindy, Chennai.	Coursework Completed
3	Mr.K.Sarathy	June 2017	Nanoparticles and Dielectrics	Anna University	Dr.K.C.Ramya, Professor and Head, Dept.of EEE, Sri Krishna College of Engineering and Technology	Synopsis work



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ACADEMIC RESEARCH

LIST OF PAPER PUBLICATIONS IN JOURNALS BY FACULTY

2024-2025				
Authors	Title of the Paper	Name of the Journal/ Event Publisher	DOI No./ISSN No./Vol. No./Journals	Refereed / SCI Journals
Dr.R.Venkatasubramanian	Comparative analysis of deep learning and machine learning algorithm for concrete crack detection	AIP Conference Proceedings	https://doi.org/10.1063/5.0222363	Scopus
	Integrating AI-Driven Fault Detection and protection Technique for Electric Power Components and Systems	International Journal of Renewable Energy Research	https://doi.org/10.20508/ijrer.v14i2.14553.g8890	Scopus
	Integrating Hydrogen Energy Storage into Urban Mobility Solutions	E3S Web of Conferences	https://doi.org/10.1051/e3sconf/202454011009	Scopus



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	Smart Safety Helmet for Coal Miners	2024 10th International Conference on Communication and Signal Processing (ICCSP)DOI: 10.1109/ICCSP60870.2024 12-14 April 2024	https://doi.org/10.1109/icmsp60870.2024.10543398	IEEE xplore
Mrs.M.Devi	Comparative analysis of deep learning and machine learning algorithm for concrete crack detection	AIP Conference Proceedings	https://doi.org/10.1063/5.0222363	Scopus
	Optimizing Energy Efficiency in Electric Vehicles through Fuzzy Logic and Neural Network Algorithms	2024 International Conference on Distributed Computing and Optimization Techniques (ICDCOT)	979-8-3503-8295-2/24/\$31.00 ©2024 IEEE DOI: 10.1109/ICDCOT61034.2024.10516252	IEEE xplore



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2023-2024				
Authors	Title of the Paper	Name of the Journal/Event Publisher	DOI No./ISSN No./Vol. No./Journals	Refereed / SCI Journals
Dr.R.Venkatasubramanian	Monitoring of Photovoltaic Fed Induction Motor Control using IoT	2023 2nd International Conference on Edge Computing and Applications (ICECAA)	DOI: 10.1109/ICECAA58104.2023.10212286	IEEE xplore
	An efficient minimum cost battery charging and discharging scheduling scheme for electric vehicle using hybrid energy valley - pathfinder	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	https://doi.org/10.1080/15567036.2024.2336174	Scopus
	Discussion and Application of Virtual Garment Design Technology	2023 Second International Conference on Smart Technologies for Smart Nation(Smart Tech Con)	https://doi.org/10.1109/SmartTechCon57526.2023.10391308	IEEE xplore
	Privacy-Preserving Data Mining Methods for Sensitive Information	International Conference on Technological Advancements in Computational Sciences, ICTACS 2023	https://doi.org/10.1109/ictacs59847.2023.1039008 7	IEEE xplore



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Dr.S.Parthasarathy	IoT Monitoring Scheme in Solar-based Motor Drive for Water Pump Applications	2023 2nd International Conference on Edge Computing and Applications (ICECAA)	DOI: 10.1109/ICECAA58104.2023.10212379	IEEE xplore
Mrs.S.Ananthi	Experimental investigation on foam concrete as a filler material in glass fiber reinforced gypsum panels	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2023.05.583	Elsevier
2022-2023				
Authors	Title of the Paper	Name of the Journal/Conference/Event Publisher	DOI No./ISSN No./Vol. No./Journals	Refereed / SCI Journals
Dr.R.Venkatasubramanian	Monitoring of Photovoltaic Fed Induction Motor Control using IoT	https://ieeexplore.ieee.org/xpl/conhome/10211064/proceeding	https://doi.org/10.1109/icecaa58104.2023.10212286	Scopus
	E-waste infused bituminous mix for flexible pavements	Materials Today:Proceedings	https://doi.org/10.1016/j.matpr.2023.05.354	Scopus
	AC to DC Converter Execution using EMI Filtration System	https://ieeexplore.ieee.org/xpl/conhome/10099473/proceeding	https://doi.org/10.1109/icicacs57338.2023.10099711	Scopus
Mrs.M.Devi	Design and Implementation of a Smart Home Energy Management System Using IoT and Machine Learning	E3S Web of Conferences 387, 04005 (2023)	https://doi.org/10.1051/e3sconf/202338704005	Scopus



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2021-2022

Authors	Title of the Paper	Name of the Journal/Event Publisher	ISSN No./Vol. No./Journals	Refereed / SCI Journals
Dr.R.Venkatasubramanian	Power yield improvement of wind turbine and fatigue load mitigation using predictive-based Active flow controller	Energy Reports,Elsevier	https://doi.org/10.1016/j.egy.2022.10.285	SCI Journal
Dr.R.Venkatasubramanian	Integrating Nanomaterial and High-Performance Fuzzy-Based Machine Learning Approach for Green Energy Conversion	https://www.hindawi.com/journals/jnm	https://doi.org/10.1155/2022/5793978	SCI Journal
S.Parthasarathy, C.F.Theresa Cenate, R. Alarmelumangai, M.Dhakshina Moorthy	Deep Well Robotics Manipulator	Psychology And Education	https://www.psychologyandeducation.net/pae/index.php/pae/article/view/4433/3915	Refereed Journal
K. Sarathy, C.F.Theresa Cenate	Analysis of Four Switch BLDC motor Drive for Industrial applications	Psychology And Education	https://www.psychologyandeducation.net/pae/index.php/pae/article/view/4434/3916	Refereed Journal



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2020-2021				
Authors	Title of the Paper	Name of the Journal/Event Publisher	ISSN No./Vol. No./Journals	Refereed / SCI Journals
Dr C F Theresa Cenate	Planning And Design Of A Rural Road Using Satellite Images	European Journal of Molecular & Clinical Medicine	https://ejmcm.com	Refereed Journal
Mrs. S Ananthi	Web based Prepaid Energy Meter with theft control	European Journal of Molecular & Clinical Medicine	https://ejmcm.com	Refereed Journal
Dr.S.Parthasarathy	IoT Based Fire Fighting Robot	European Journal of Molecular & Clinical Medicine	https://ejmcm.com	Refereed Journal



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2019-2020				
Authors	Title	Name of the Journal/Event Publisher	ISSN No./Vol. No./Journals	Refereed / SCI Journals
Dr S Parthasarathy	A contrast of category fashions for existence coverage lapse threat	Parishodh Journal	http://www.parishodhpu.com/VOLUME-VIII-ISSUE-12-DECEMBER-2019/	Refereed Journal
Dr C F Theresa Cenate	Region of interest extraction for Lung Cancer Detection in CT Scan images	Parishodh Journal	http://www.parishodhpu.com/VOLUME-VIII-ISSUE-12-DECEMBER-2019/	Refereed Journal
	Segmentation of Hyperspectral Images using Fodpso and Feature Extraction		https://app.box.com/s/twg2y5or3iemjtchcwqpnus95gepywt	Refereed Journal
	Restoration of Images under Momentous Additive Noise		https://app.box.com/s/vngy49nub09mfushtkbc5qrz0k455ef8	
	Analysis and Mitigation of Impact for Lowpower IoT Devices		https://app.box.com/s/b904nfay57h56ozdaa88covyuykm9fzk	
	Region of Interest Extraction for Lung Cancer Detection in CT Scan Images		https://app.box.com/s/0l3r0by2oyi6fvffqe25mlwviqn301j3	



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	Histogram Based Image Segmentation Approach for Automatic Image Registration		https://app.box.com/s/whob4o1kqzi6uf616kdsctq5i61wcxxd	
	Neural Network based Image Restoration Technique		https://app.box.com/s/yvb5b7l9dy0hkk08bne686kc9a7k5so2	
Dr S Arulkumar	Innovative and smart wearable system to assist bronchial asthma patients	Parishodh Journal	http://www.parishodhpu.com/Volume-VIII-Issue-VIII-August-2019/	Refereed Journal
Mr K Sarathy	Battery strength storage systems (BESS) kingdom of the innovative artwork	Parishodh Journal	http://www.parishodhpu.com/Volume-VIII-Issue-VIII-August-2019/	Refereed Journal
Mrs M Devi	Modeling and Simulation of Various Luo Converter Topologies fed BLDC Drive Using Solar PV Array	Parishodh Journal	ISSN NO: 2347-6648	Refereed Journal
	An Intelligent and Non Integer Order Coordinate Control for LFC of Multi Area Power System Integrated with EVs		ISSN NO: 2347-6648	Refereed Journal
	Performance Unified Power Quality Conditioner Using Instantaneous Reactive Power Theory		ISSN NO: 2347-6648	Refereed Journal
Mr K Kumarasaravanan	Twitter based totally catastrophe innovative management system using records mining	Parishodh Journal	http://www.parishodhpu.com/Volume-VIII-Issue-VIII-August-2019/	Refereed Journal



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LIST OF PAPER PUBLICATIONS IN CONFERENCES BY FACULTY

2023-2024					
Authors	Title of the Paper	Name of the Conference/Event Publisher	Name of the Organiser	DOI No./ISSN No./Vol.	Date of the Conference Conducted
S.Ananthi	Sensory Assistant System for Visually impaired People	CROSS ROAD '23 Bridging Biomedical and Electrical Visions for LimitlessInnovation	Dr.M.G.R. Educational and Research Institute	Conference Proceedings	06.10.2023
B.Thamizhkani	Maximum Power Extraction from PV Panels using At328 Microcontroller	CROSS ROAD '23 Bridging Biomedical and Electrical Visions for LimitlessInnovation	Dr.M.G.R. Educational and Research Institute	Conference Proceedings	06.10.2023
R.Revathi	Arduino Intruder Security Alert System	CROSS ROAD '23 Bridging Biomedical and Electrical Visions for LimitlessInnovation	Dr.M.G.R. Educational and Research Institute	Conference Proceedings	06.10.2023



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2022-2023

Authors	Title of the Paper	Name of the Conference/Event Publisher	Name of the Organiser	DOI No./ISSN No./Vol.	Date of the Conference Conducted
Dr.R.Venkatasubramanian	Monitoring of Photovoltaic Fed Induction Motor Control using IoT	International Conference on Edge Computing and Applications (ICECAA)	Live4research,Tirupur, Tamil Nadu	Conference Proceedings	July 2023

2021-2022

Authors	Title of the Paper	Name of the Conference/Event Publisher	Name of the Organiser	DOI No./ISSN No./Vol.	Date of the Conference Conducted
Dr.R.Venkatasubramanian	ERR. FIX.An Automated software Debugging Tools	International Virtual Conference On Advances In Data Sciences And Theory Of Computing	Conference, Bharath Institute of Higher Education and Research	Conference Proceedings	30.3.2022, 01.04.2022
Dr.C.F.Theresa Cenate	Enabling Range free Localization for Mobile Sensor Networks	International Virtual Conference On Advances In Data Sciences And Theory Of Computing	Conference, Bharath Institute of Higher Education and Research	Conference Proceedings	30.3.2022, 01.04.2022



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2021-2022

Authors	Title of the Paper	Name of the Conference/Event Publisher	Name of the Organiser	DOI No./ISSN No./Vol.	Date of the Conference Conducted
Dr.S.Parthasarathy	Green Information Technology for Environmentally Sustainable Computing	International Virtual Conference On Advances In Data Sciences And Theory Of Computing	Conference, Bharath Institute of Higher Education and Research	Conference Proceedings	30.3.2022, 01.04.2022
K.Sarathy	Cloud Computing: A New Perspective of Efficient Approaches, Techniques and Challenges for Data Centers	International Virtual Conference On Advances In Data Sciences And Theory of Computing	Conference, Bharath Institute of Higher Education and Research	Conference Proceedings	30.3.2022, 01.04.2022
M.Devi	Predicting Data from Unauthorized User to a Authorized User Using Watermark	International Virtual Conference on Advances In Data Sciences And Theory Of Computing	Conference, Bharath Institute of Higher Education and Research	Conference Proceedings	30.3.2022, 01.04.2022
Dr.S.Sendil Kumar	Computational Cloud with inherent efficiency of load-equalizing technique	International Virtual Conference On Advances In Data Sciences And Theory Of Computing	Conference, Bharath Institute of Higher Education and Research	Conference Proceedings	30.3.2022, 01.04.2022



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2021-2022

Authors	Title of the Paper	Name of the Conference/Event Publisher	Name of the Organiser	DOI No./ISSN No./Vol.	Date of the Conference Conducted
Dr.S.Senthil Kumar	Machine Learning Supporting Technology for Data Mining In Healthcare	International Virtual Conference On Advances In Data Sciences And Theory Of Computing	Conference, Bharath Institute of Higher Education and Research	Conference Proceedings	30.3.2022, 01.04.2022
Ms.S.Ananthi	Reliable Data Delivery for Highly Dynamic MANET	International Virtual Conference On Advances In Data Sciences And Theory Of Computing	Conference, Bharath Institute of Higher Education and Research	Conference Proceedings	30.3.2022, 01.04.2022
Dr.S.Parthasarathy	Vacsaver: An Active Refrigeration System For Last Leg Vaccine Transportation	National Conference on IoT Applications in Smart Cities-NCIASC-22	Arunachala College of Engineering for Women	Conference Proceedings ISBN No. 978-93-92748-52-3	30.3.2022, 31.3.2022
Dr.C.F.Theresa Cenate	Recommendation System For Movies	National Conference on IoT Applications in Smart Cities-NCIASC-22	Arunachala College of Engineering for Women	Conference Proceedings ISBN No. 978-93-92748-52-3	30.3.2022, 31.3.2022
Dr.R.Venkatasubramanian	Smart Cleaning Robot	National Conference on IoT Applications in Smart Cities-NCIASC-22	Arunachala College of Engineering for Women	Conference Proceedings ISBN No. 978-93-92748-52-3	30.3.2022, 31.3.2022



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2020-2021

Authors	Title of the Paper	Name of the Conference/Event Publisher	Name of the Organiser	DOI No./ISSN No./Vol.	Date of the Conference Conducted
Dr.S.Sendil Kumar	A Review on Noise Reduction Methods For Brain MRI Images	National Conference on IoT Applications in Smart Cities-NCIASC-22	Arunachala College of Engineering for Women	Conference Proceedings ISBN No. 978-93-92748-52-3	30.3.2022, 31.3.2022
Dr S Senthil kumar	Smart Gardening System	National Conference on IoT Applications in Smart Cities-NCIASC-22	Arunachala College of Engineering for Women	Conference Proceedings ISBN No. 978-93-92748-52-3	30.3.2022, 31.3.2022
Mrs.M.Devi	Registering Preprocedure Volumetric Images With Intraprocedure 3-D Ultrasound Using An Ultrasound Imaging Model	National Conference on IoT Applications in Smart Cities-NCIASC-22	Arunachala College of Engineering for Women	Conference Proceedings ISBN No. 978-93-92748-52-3	30.3.2022, 31.3.2022
Dr.S.Parthasarathy	Deployment of Robots in Airplanes	National Conference on IoT Applications in Smart Cities-NCIASC-22	Arunachala College of Engineering for Women	Conference Proceedings ISBN No. 978-93-92748-52-3	30.3.2022, 31.3.2022
K.Sarathy	Self Sustainable Agro Technologies	National Conference on IoT Applications in Smart Cities-NCIASC-22	Arunachala College of Engineering for Women	Conference Proceedings ISBN No. 978-93-92748-52-3	30.3.2022, 31.3.2022



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2020-2021

Authors	Title of the Paper	Name of the Conference/Event Publisher	Name of the Organiser	DOI No./ISSN No./Vol.	Date of the Conference Conducted
Mrs. S Ananthi	Applications of Nano Topological Properties in Filtering the Image	Proceedings of the National Level Conference On "Recent Trends In Applied Mathematics"	V.H.N Senthilkumara Nadar College, (AUTONOMOUS) Virudhunagar	978-81-942052-2-7 (ISBN No.)	Jan,2020
Dr S Parthasarathy	Reduction on Setup and Ordering Cost in an Integrated Vendor-Buyer Supply Chain Models Reception Techniques	Proceedings of the National Level Conference On "Recent Trends In Applied Mathematics"	V.H.N Senthilkumara Nadar College, (AUTONOMOUS) Virudhunagar	978-81-942052-2-7 (ISBN No.)	Jan,2020
Dr C F Theresa Cenate	A New Approach for the Classification of EEG Using Genetic Programming with Wavelet Packets	Proceedings of the National Level Conference On "Recent Trends In Applied Mathematics"	V.H.N Senthilkumara Nadar College, (AUTONOMOUS) Virudhunagar	978-81-942052-2-7 (ISBN No.)	Jan,2020



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2020-2021

Mr K Sarathy	Support Neighborly Edge Irregular Graphs	Proceedings of the National Level Conference On "Recent Trends In Applied Mathematics"	V.H.N Senthilkumara Nadar College, (AUTONOMOUS) Virudhunagar	978-81-942052-2-7 (ISBN No.)	Jan,2020
Mrs M Devi	Elucidation of Stoichiometric Coefficients of Some Chemical Reactions of Gold and Its Compounds by Matrix Method	Proceedings of the National Level Conference On "Recent Trends In Applied Mathematics"	V.H.N Senthilkumara Nadar College, (AUTONOMOUS) Virudhunagar	978-81-942052-2-7 (ISBN No.)	Jan,2020
Mr K Kumarasaravanan	Stability Analysis for Time Delay Systems	Proceedings of the National Level Conference On "Recent Trends In Applied Mathematics"	V.H.N Senthilkumara Nadar College, (AUTONOMOUS) Virudhunagar	978-81-942052-2-7 (ISBN No.)	Jan,2020



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List of Faculty Members with Citation Index

S.No.	Name of the Faculty Member	Scopus		Google scholar		
		h-Index	Total citations	h-Index	i - 10 index	Total citations
1	Dr.R.Venkatasubramanian	6	472	5	1	57
2	Dr.S.Senthilkumar	12	388	11	11	364
3	Dr C F Theresa Cenate	2	9	2	-	17
4	Dr.R.Sasikala	1	14	1	1	14
5	Dr.S.Parthasarathy	3	27	4	2	52
6	Mrs.S.Ananthi	-	-	1	-	4
7	Mr.K.Sarathy	-	-	1	-	5
8	Mrs.M.Devi	4 docs(requested to merge)		-	-	-
9	Mrs.R.Revathi	-	-	-	-	-
10	Dr.S.Sendilkumar	-	-	6	4	92
11	Dr.S.Arulkumar	-	-	3	1	30
12	B.Thamizhkani	-	-	1	1	-
13	Dr.V.Srinivasan	-	-	9	9	340



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DETAILS OF PATENT FILED AND GRANTED

Sl. No	Title of Patent/Discovery	Patent App. No./Jurisdiction/ Published in Patent Journal	Inventors' Name/Faculty Members/Students/ Emeritus Professors	Year of Application/ Department
1	Pneumatic-Based Power Tracking Device for PV Panel (INSTITUTION PATENT)	426007-001	Dr.Venkatasubramanian, Dr.S.Senthi Kumar, Mrs.B.Thamizhkani, Mr.M.Lakshminarayanan(III YR)	2024/EEE
2	Electronic T shirt for Visually Impaired People (INSTITUTION PATENT)	413590-001	Dr.Venkatasubramanian,Mrs.S.Ananthi, Mrs.M.Devi, Mr.Sahil Dhanaji Zimal(IV YR)	2024/EEE
3	Economic and Environmental controls for smart grids from spatiotemporal optimization of electric vehicle charging	202241001294A	Dr.R.Venkatasubramanian	28.01.2022
4	Security Protocol to prevent attacks from Programmable Matter in IoT networks	2021100959	Mr.S.Parthasarathy	14.04.2021



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Sl. No	Title of Patent/Discovery	Patent App. No./Jurisdiction/ Published in Patent Journal	Inventors' Name/Faculty Members/Students/ Emeritus Professors	Year of Application/ Department
5	Spherical dome oscillating wave energy conversion device	202041019055A	Mr.S.Parthasarathy	05.06.2020
6	Design of Secured smart mobile Real time health monitoring system using IoT FOG Computing	202141009515A	Dr.S.SenthilKumar	12.03.2021
7	A System and Method for AI Base GPS accredit Moratorium System	201941038416A	Mr.S.Parthasarathy	18.10.2019



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

LIST OF FACULTY MEMBERS PUBLISHED BOOKS

Sl.No.	Name of Faculty	Title of the Book / Book Chapter	Books / Book Chapters	Book Publication Details
1	Dr.R.Venkatasubramanian	Development and Characterization of a Low Cost Solar air Collector	Book Chapter	ISBN 978-93-94521-13-1
2	Dr.R.Venkatasubramanian	Electrical Power Transmission systems in Reactive-Power control	Book Chapter	Lulu Publication, USA, ISBN: 978-1-300-39582-9, Volume II
3	Mrs.S.Ananthi	Electric Circuit Analysis	Book	978-81-966302-4-9
4	Mrs.M.Devi	Basic Electrical and Instrumentation Engineering	Book	978-81-966302-1-8