

1. Name and full correspondence address: Dr. M.Padma Lalitha
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3. Institution Annamacharya Institute of Technology & Sciences, Rajampet
4. Date of Birth 04/07/1972
5. Gender (M/F/T) F
6. Category Gen/SC/ST/OBC Gen
7. Whether differently abled (Yes/No) No
8. Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution	% of marks
1.	Ph.D	2011	Soft Computing Techniques for optimal DG Placement in RDS	Sri Venkateswara University College of Engineering, Tirupati	----
2.	M.Tech	2002	Power System Operation & Control	Sri Venkateswara University College of Engineering, Tirupati	86.2
3.	B.Tech	1994	Electrical & Electronics Engineering	JNTU College of Engineering, Anathapur	72.3

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Ph.D thesis title :Soft Computing Techniques for optimal DG Placement in RDS

Guide's Name : Dr. V.C.Veera Reddy

University : Sri Venkateswara University, Tirupati

Year of Award : 2011

10. Work experience (in chronological order).

S.No.	Positions held	Name of the Institute	From	To
1	Assistant Professor	Annamacharya Institute of Technology & Sciences, Rajampet	22/10/1999	31/3/2005
2	Associate Professor		01/04/ 2005	31/11/2005
3	Associate Professor & HOD		01/12/ 2005	12/042011
4	Professor & HOD		13/04/2011	To Till Date

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1.	Best Teacher in Electrical Engineering	ISTE AP	2018
2.	IEEE – Senior Member	IEEE	2018
3.	IE- Fellow	IEI	2017

12. Publications (List of papers published in SCI Journals, in year wise descending order).

S.No	Author(s)	Title	Name of Journal	Volume	Page	Year
1	Padma Lalitha Mareddy, Sivarami Reddy Narapureddy, Venkata Ramamurthy Dwivedula, Prahlada Rao Karanam	Optimum scheduling of machines, automated guided vehicles and tools without tool delay in a multi-machine flexible manufacturing system using symbiotic organisms search algorithm	Concurrency and Computation	Preprint	DOI: 10.1002/cpe.6950	2022
2	Mareddy Padma Lalitha, Ali Shaik, M., Visali, N	Enhancement of Voltage Profile in the Distribution system by Reconfiguring with DG placement using Equilibrium Optimizer: Enhancement of voltage profile in the distribution system	Alexandria Engineering Journal	61(5),	pp. 4081-4093	2022
3	Lalitha, M.P, Reddy, N.S., Ramamurthy, D.V., Rao, K.P.	Minimizing the total completion time on a multi-machine FMS using flower pollination algorithm	Soft Computing	26(3),	pp. 1437-1458	2022
4	M. Padma Lalitha, sivarami reddy N, S.P.Pandey, G.S.Venkatesh	Simultaneous scheduling of machines and tools in a multi machine FMS with alternative routing using symbiotic organisms search algorithm	Journal of Engineering Research	online	DOI: https://doi.org/10.36909/jer.10653	2021
5	Padma Lalitha, M., Sivarami Reddy, N., Ramamurthy, D.V	Simultaneous Scheduling of Machines and Tools in a Multi-Machine FMS with Alternate Machines Using Crow Search Algorithm	Journal of Advanced Manufacturing Systems			
6	Mareddy Padma Lalitha, Ali Shaik, M., Visali, N	Performance analysis of hybrid techniques for evaluation of power transmission cost and loss allocation based on transmission reliability margin	International Transactions on Electrical Energy Systems	31(11)		2021

7	Lalitha, M.P., Srinivasan, S., Tiwari, R., Krishnamoorthy, M., Raj, K.K.	Neural network based MPPT control with reconfigured quadratic boost converter for fuel cell application	International Journal of Hydrogen Energy	46(9),	pp. 6709-6719	2021
8	Padma Lalitha, M., Reddy, N.S., Ramamurthy, D.V., Prahlada Rao, K.	Integrated simultaneous scheduling of machines, automated guided vehicles and tools in multi machine flexible manufacturing system using symbiotic organisms search algorithm	Journal of Industrial and Production Engineering			2021
9	Padma Lalitha, M., Hema Kesavulu, O., Sekhar Dash, S., Chellammal, N.	A novel control approach for damping of resonance in a grid interfaced inverter system-fuzzy control approach	International Journal of Ambient Energy	42(14),	pp. 1607-1614	2021
10	Lalitha, M.P., Reddy, N.S., Ramamurthy, D.V., Rao, K.P.	Practical simultaneous scheduling of machines, AGVs, tool transporter and tools in a multi machine FMS using symbiotic organisms search algorithm	International Journal of Computer Integrated Manufacturing	34(2),	pp. 153-174	2021
11	Lalitha, M.P., Reddy, N.S., Ramamurthy, D.V., Rao, K.P.	Integrated scheduling of machines, AGVs and tools in multi-machine FMS using crow search algorithm	International Journal of Computer Integrated Manufacturing	32(11),	pp. 1117-1133	2019

13. Detail of patents.

S. No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/ Country	Status
1	Driver performance scoring smart system and safety-warning with Accident proneness filtering using Machine Learning	Dr. Mareddy Padma Lalitha, Dr.Nallaperumal Chellammal, Dr.N. Sivarami Reddy, Dr.Oruganti Hemakesavulu, Dr. Kanasottu Anil Naik, Dr. Girish Kumar Sharma, Dr. Subramanian Saravanan, Mr. Kannadasan Balakrishnan, Dr. Prabhat Kumar Srivastava, Mr.Pankaj Negi, Dr Barinderjit Singh, Dr. Pratap Patil	202022100928.7		Germany	Filed on 18/02/2022
2	Over voltage and under voltage protection notification using ML and IoT based system	Ayes Chinmay Dr. M Pala Prasad Reddy Prof.(Dr.) B.K. Sarkar Mr. Pawan Kumar Singh Dr. M. Padma Lalitha Dr. U. Ramesh Babu	202231004894		India	Published (50/2021)

3	Internet of Things based automatic railway gate controller	Dr. M. Padma Lalitha Akanksha Vyas Dr. U. Ramesh Babu Mr. Rushikesh Shantaram Bhalerao Prof. Nalin B. Dev Choudhury Dr. Mukesh Tiwari Rushali R. Thakkar	202141052141		India	Published (50/2021)
4	System and a method for an intelligent/ automatic tuning of power converter of electric vehicle for charging the battery thereof	Dr.K.Vaisakh Dr. M. Padma Lalitha Dr.P.Balachennaiah Dr. K. Amaresh S. Muqthiar Ali Dr.S.Jeyasudha	202041055437		India	Published (52/2020)
5	EVM- control: electric vehicle controlling system using BEAGLE BONE BLACK REV C (4G)	Dr. M. Padma Lalitha Sivakumar N S Dr. B. Venkatesh Dr. Velmurugan P Prof. Santosh Gopal Nagpure Dr. L . Priya Dr. Usha Batra	201941040658		India	Published (42/2019)

14. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
Books				
1	DG Placement using GA and PSO ISBN- 978-3-659-15970-1.	Dr. M. Padma Lalitha	LAMBERT Academic Publishing, Germany	2012
2	Hybrid Approach for DG Placement- for loss reduction and improvement of reliability ISBN- 978-3-659-34204-2.	Dr. M. Padma Lalitha	LAMBERT Academic Publishing, Germany	2013
Edited Books				
3	Proceedings of NCES-21 – ISBN- 978-93-81583-72-2.	Dr. M. Padma Lalitha, Dr.O.Hemakeasavulu Dr. P.Gopi	Excellect Publishors, New Delhi	2021
4	Proceedings of NCRAIPES-16 ISBN- 978-93-84935-88-7.	Dr. M. Padma Lalitha, Dr.O.Hemakeasavulu Mr S.Muquthiar Ali	Excellect Publishors, New Delhi	2016
5	Proceedings of NCES-14	Dr. M. Padma Lalitha, Dr.O.Hemakeasavulu R.Madan Mohan	Excellect Publishors, New Delhi	2014
6	Proceedings of NCES-12	Dr. M. Padma Lalitha, Dr.O.Hemakeasavulu	Excellect Publishors, New Delhi	2012
Book Chapters				
7	Novel ANN Based MPPT Control Strategy for Hybrid PV/Wind and Diesel Generator System	Jarugumalli Ramya Grahitha, M. Padma Lalitha & Suresh Srinivasan	Springer, Singapore <u>Lecture Notes in Electrical Engineering</u> book series <u>On Intelligent Technologies and Robotics</u> Online ISBN 978-981-16-3690-5 Print ISBN 978-981-16-3689-9	2021
8	Modeling and Simulation of Automatic Centralized Micro Grid Controller	M. Padma Lalitha, J. Jayakrishna & P. Suresh Babu	Springer, Singapore Part of the <u>Studies in Computational Intelligence</u> book series on <u>Intelligent Technologies and Robotics</u>	2021

			978-3-030-68291-0	
9	Effect of Load Model and Load Level on DG Placement by Crow Search Algorithm	Mareddy Padma Lalitha & Oruganti Hemakesavulu	Springer, Singapore Lecture Notes in Electrical Engineering, vol 569. Online ISBN978-981-13-8942-9	2019
10	Two Loop PI Controlled Cascaded Re-Boost Seven Level Inverter Fed Induction Motor System with Superior Dynamic Response	P. Bhaskara Prasad M. Padma Lalitha B. Sarvesh	Springer, Singapore Lecture Notes in Electrical Engineering, vol 569. Online ISBN978-981-13-8942-9	2019

15. Any other Information (maximum 500 words)

Consultancy works undertaken:

S.No	Title	Agency	Year	Period	Grant/Amount Mobilized (Rs)	Status
1	Academic Resource Planning App	Eddirs Innovative solutions	2019	1 year	Rs 2, 50,000	Completed
2	Rectification of capacitor bank tripping with power quality enhancement	M/S Jai Bajrang Pump Company	2020	6 months	Rs 3, 42,000	Completed
3	Power Optimization in Wireless network	VI Solutions, Bangalore	2021	6 months	Rs 2, 83,000	Completed

Administrative Experience & Curriculum Development:

- Heading the Department of EEE, AITS from Dec, 2005.
- Member of Governing Body of the institute
- Member of Academic Council of the institute.
- Member of Finance Committee of the Institute.
- Chairman, Board of Studies for EEE Department of AITS, Rajampet.
- Member, Board of Studies, Department of EEE for JNTUA, Ananthapuramu.
- Handled Smart grid Technologies subject for research scholars of JNTUA, Ananthapuramu
- Developed Handouts & active learning teaching plans for the Control Systems, Smart grid Technologies , Electrical Circuits , Design of Solar PV plant for your own home, Matlab Programming- An introduction and Matlab & Simulink- An introduction.

Achievements & Awards :

- Received ISTE AP section “Best Teacher in Electrical Engineering” for the year 2018.
- All India Topper of the NPTEL online Course “Introduction to Smart Grid”.
- All India Topper of the NPTEL online Course “Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink”.
- Got 4 best paper awards.
- Google Scholar **H-Index-12, I10-Index-14**
- Research Gate Score **9.9 & H-index-7**.
- Publications have about **640 citations**.
- Published 3 patents.
- Consultancy projects -3
- **Review Member** for SCI and reputed International Journals like International Journal of Electric Power Components and Systems (T&F Publication), Journal of Electronics Systems, IET generation, transmission and distribution etc.
- **Editorial board member** for reputed International Journals.
- **Organizing Chair and resource person for AICTE-ISTE sponsored one week online induction/Refresher Program on “Challenges and opportunities in Electrical Vehicle Technology”.**
- **Coordinator and resource person for AICTE sponsored STTP on “Energy Management & control System for smart renewable energy remote power generation” for 4 phases.**
- **Organizing Chair for** 2nd International Conference on Cognitive Informatics & Soft Computing (CISC-2019)-
- **Publication Chair for** 2nd International Conference on Science, Engineering and Mathematics (ICACM-2020)-
- Publication chair and Session Chair for IEEE International Conference ICACT in 2013.
- Session Chair for International Conference ICECE organized by IRAJ on 14th July 2013
- Technical Program Committee member for First International Online Conference on Computing 2011 (IIOCC 2011), September 23-25,2011, organized by Masam Network.
- Chairperson for National Student Seminar EEL-12 & EEL-16 organized by JNTUACEP, Pulivendula.

Professional Body Membership : Senior Member IEEE, Fellow IEI, Member ISTE, Member IAENG

Curriculum Development :

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CV Links:

Vidwan - <https://vidwan.inflibnet.ac.in/myprofile>

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scopus

<https://www.scopus.com/authid/detail.uri?authorId=57201835524>

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Publons

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Google scholar

<https://scholar.google.co.in/citations?user=hYCfKL0AAAAJ>

Google Scholar Id - hYCfKL0AAAAJ

European Union Expert

<https://ec.europa.eu/research/participants/experts/web/cv>

EU Expert ID - EX2022D546714

Ph.D Scholars Guiding : 03 (2 Submitted)

M.Tech Projects Guided : 21

Events Organized :

I. Technical : 32

II. Non-Technical : 12

Technical Events Organized :

Guest Lectures/ Invited Lectures Delivered :

Sl. No.	Title of Lecture	Title of Conference/Seminar	Organized by
1	Design & Installation of Solar PV for your home	Guest Lecture	Krishna Engineering College, Ghajiabad
2	Soft computing Techniques in Smartgrid	FDP on Smartgrid	SRM University, Chennai
3	Introduction to smartgrid	Guest Lecture	JNTU college of Engineering Ananthapur, Ananthapur
4	Application of nature inspired algorithms for DG placement	AICTE sponsored STTP on Energy management and control system for smart renewable energy remote power generation	AIMS,Rajampet
5	Application of Artificial Intelligence to Power Systems	Recent trends in FACTS Controller	AIMS,Rajampet
6	Soft Computing Techniques for Optimization	Recent Trends in Manufacturing Systems- An AICTE Sponsored One Week national level staff development program	AIMS,Rajampet
7	DG- A new paradigm of power systems	Technical Lecture	IE, Kadapa Local Center
8	Application of PSO for Loss reduction in RDS	AIPS- An AICTE Sponsored One Week national level staff development program	AIMS,Rajampet

9	Application of Soft-computing to RDS	AIPS- A One day national level staff development program	AITS,Rajampet
10	Key note address	National level student conference EEL 2k12	JNTUACEP,Pulivendula
11	Distributed Generation	Guest Lecture	AITS,Tirupati
12	Distribution system losses	Guest Lecture	MITS,Udayagiri

Seminars /Workshops/Conferences Attended:

Workshops : 16

Conferences : 25

In addition during this pandemic period completed 27 courses in coursera.