

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Dr. Shelas Sathyan is presently working as an Assistant Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli. He earned his PhD in Electrical Engineering from Visvesvaraya National Institute of Technology, Nagpur in 2017. He did his M. Tech in Power Electronics and Drives from Visvesvaraya National Institute of Technology, Nagpur in 2012. Prior to joining NIT Tiruchirappalli, He was an assistant professor with Department of Electrical Engineering, Shiv Nadar University, Greater Noida, Uttar Pradesh. His research area is power electronics, development of high efficient power converters for renewable energy integration, resonant power converters, wideband gap devices etc.

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology, Tiruchirappalli	14/5/18	Till Date
Assistant Professor	Shiv Nadar University	31/7/17	9/5/2018

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	VNIT-Nagpur	2017		Electrical Engineering
M. Tech	VNIT-Nagpur	2012	First Rank	Power Electronics and Drives
B. Tech	Government College of Engineering Kannur, Kerala	2009	First class(Honors)	Electrical and Electronics Engineering
HSSC	P.H.S.S. Perambra	2004	First class (Distinction)	Science

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9. Academic/Administrative Responsibilities outside the University:

Position	Institution	From	To
UG Advisor	Shiv Nadar University	15/12/2017	9/5/2018

10. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2012	Academic Excellence Award	VNIT Nagpur

11. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2012	MHRD Fellowship for PhD	MHRD and VNIT Nagpur	2012	2017
2010	MHRD Fellowship for M.Tech	MHRD and VNIT Nagpur	2010	2012

12. Publications

(A) Refereed Research Journals:

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Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Shelas Sathyan , H. M. Suryawanshi, A. B. Shitole, M. S. Ballal, and V. B. Borghate	Soft Switched Interleaved DC/DC Converter as front-end of Multi Inverter Structure for Micro Grid Applications	<i>IEEE Transactions on Power Electronics</i>	Accepted and in Press		2018	7.151
H. M. Suryawanshi, S. Pachpor, T. Ajmal, G. G. Talapur, Shelas Sathyan , M. S. Ballal, V. B. Borghate, M. R. Ramteke	Hybrid Control of High Efficient Resonant Converter for Renewable Energy System	<i>IEEE Transactions on Industrial Informatics</i>	14	1835-1845	2018	6.746
A. B. Shitole, Shelas Sathyan , H. M. Suryawanshi, G. G. Talapur, P. Chaturvedi	Soft Switched High Voltage Gain Boost Integrated Flyback Converter Interfaced Single-Phase Grid Tied Inverter for SPV Integration	<i>IEEE Transactions on Industry Applications</i>	54	482-493	2018	2.937
A. B. Shitole, H. M. Suryawanshi, Shelas Sathyan , G. G. Talapur and M. S. Ballal	A Comparative Performance Evaluation of Extended AANF with Different Parameter Estimation Techniques for Renewable Energy Integration	<i>Electric Power Components and Systems, Taylor & Francis</i>	45	1870-1880	2016	1.220
Shelas Sathyan , H. M. Suryawanshi, Bhim singh, Chandan Chakraborty, Vishal Verma and M. S. Ballal	ZVS-ZCS High Voltage Gain Integrated Boost Converter For DC Microgrid	<i>IEEE Transactions on Industrial Electronics</i>	63	6898-6908	2016	7.168
Shelas Sathyan , H. M. Suryawanshi, M. S. Ballal and A. B. Shitole	Soft Switching DC-DC Converter for Distributed Energy Sources With High Step Up Voltage Capability	<i>IEEE Transactions on Industrial Electronics</i>	62	.7039-7050	2015	7.168
Shelas Sathyan , H. M. Suryawanshi, M. S. Ballal and A. B. Shitole	Low switching stress DC-DC converter with capability of high voltage gain for low voltage energy sources	<i>European Power Electronics and Drives Journal (EPE), Taylor & Francis</i>	27	74-84	2017	0.156
A. B. Shitole, H. M. Suryawanshi, G. G. Talapur, Shelas Sathyan , M. S. Ballal, V. B. Borghate, M. Ramteke, and M. Chaudhari	Grid Interfaced Distributed Generation System with Modified Current Control Loop using Adaptive Synchronization Technique	<i>IEEE Transactions on Industrial Informatics</i>	13	2634 - 2644	2017	6.764
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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Venue	Year
A. B. Shitole, H. M. Suryawanshi, G. G. Talapur and Shelas Sathyan	Performance improvement of grid interfaced three level diode clamped inverter under various power quality events	<i>IEEE 26th International Symposium on Industrial Electronics (ISIE)</i>	821-826	Edinburgh, United Kingdom	2017
G. G. Talapur, H. M. Suryawanshi, A. B. Shitole, Shelas Sathyan and V. V. Reddy	Performance improvement of digital variable band hysteresis current control using dual processor microcontroller	<i>IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society</i>	2367-2371	Florence, Italy	2016
Shelas Sathyan , H. M. Suryawanshi, A. B. Shitole and G. G. Talapur	Soft switched high voltage gain boost integrated flyback converter	<i>IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)</i>	1-6	Trivandrum, India	2016
A. B. Shitole, H. M. Suryawanshi and Shelas Sathyan	Comparative evaluation of synchronization techniques for grid interconnection of renewable energy sources	<i>IECON 2015 - 41st Annual Conference of the IEEE Industrial Electronics Society</i>		Yokohama, Japan	2015
Shelas Sathyan and H. M. Suryawanshi	Interleaved high step up converter for renewable energy sources	<i>IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society</i>	918-923	Vienna	2013