

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

Curriculum Vitae

Dr. Vivek Mohan is a recent Post-Doctoral Fellow from The Hong Kong Polytechnic University, Hong Kong, with a Doctoral of Engineering degree in Energy with specialization in Electric Power System Management from Asian Institute of Technology, Thailand. He completed his B.Tech in Electrical & Electronics Engineering from Amrita University, Amritapuri, Kerala and M.Tech in Power Systems from Government Engineering College Thrissur under Calicut university, Kerala. He works in power system analysis, risk and uncertainty management, power market, microgrid energy management, waste to energy technologies, renewable energy and optimization. He has 3 years of teaching experience.



Employment Profile:

Duration	Post	Organization
Aug 2017 – Jan 2018	Post-Doctoral fellow at Department of Electrical Engineering	The Hongkong polytechnic University, Hong Kong
Aug 2016 – June 2017	Assistant Professor (Selection Grade) at Department of Electrical and Electronics Engineering	Amrita University, Coimbatore, India
Nov 2011- July 2013	Assistant Professor, Department of Electrical and Electronics Engineering	Vidya Academy of Science and technology, kerala, India
July 2011 – Nov 2011	Assistant Professor, Department of Electrical and Electronics Engineering	Amrita School of Engineering, Amritapuri, Kerala, india

Academic Qualifications:

Examination	Board / University	Year	Division/ Grade	Subjects
D.Eng (Doctor of Engineering)	Asian Institute of Technology, Thailand	2016	Distinction for Course Work	Energy – Electric Power System Management
M.Tech	Government Engineering College Thrissur, Calicut University, Kerala, india.	2011	First class	Power systems
B.Tech	Amrita School of Engineering, Amritapuri	2009	First class	Electrical and Electronics Engineering

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Details of Academic Work:

- (i) Curriculum Development:- Developed elective course 'Optimization in Power Systems' for M.Tech-Renewable Energy Technology at Amrita University, Coimbatore, Tamilnadu, India.
- (ii) Courses taught at Postgraduate and Undergraduate levels:- Power System Analysis, Power System Optimization, Power System Protection, Optimal Control Theory, Control Engineering, Electrical Machines, Basic Electrical Engineering.
- (iii) Projects guided at Postgraduate level:- 1) Real Time Energy Management and Voltage Droop Control in Solar Powered Stand-Alone DC Microgrid 2) Optimal Energy Planning of a Rural Community in Jharghand.

Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
18-11-2016 to 20-11-2016	Short Term Training on PIC micro controllers	Local	Participant	Amrita School of Engineering	Kollam, Kerala, india
04-03-2010 to 06-03-2010	National Conference on Power, Instrumentation, Control and Computing	National	Student Organizer	Government Engineering College	Thrissur, Kerala, india
21-11-2009 to 22-11-2009	Energy Auditing for Young Engineers - 2009	National	Participant	Energy Conservation Society	Kerala, India
26-11-2012 to 30-11-2012	Recent advancements in Power Electronics	Local	Participant	Vidya Academy of Science and Technology	Thrissur, Kerala, India
02-01-2013 to 04-01-2013	Numerical and Scientific Computation for Engineers	Local	Participant	ISTE	Thrissur, Kerala, India

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02-01-2012 to 06-01-2012	International Conference on Power, Signals, Control and Computation - 2012	International	Participant and Organizer	Vidya Academy of Science and Technology	Thrissur, Kerala, India
02-07-2012 to 07-07-2012	Teaching Excellence and Methodologies	National	Participant	Indian Society for Technical Education	Kerala, India
24 th to 25 th June 2015	Tap Energy 2015	International	Paper presenter	Amrita School of Engineering	Kerala, India
6 th to 8 th August 2015	Smart Grid Technologies, ICSGT 2015	International	Paper presenter	Amrita School of Engineering	Coimbatore, Tamilnadu, india
19 th to 21 st March 2014	ICUE 2014	International	Paper Presenter	Asian Institute of Technology	Thailand
3rd to 6 th November 2016	ISGT Asia 2015	International	Paper Presenter	IEEE Power and Energy Society	Bangkok, Thailand

Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
International Conference on Power, Signals, Control and Computation - 2012	International	02-01-2012 to 06-01-2012	Organizer	Thrissur, Kerala
2014 International Conference and Utility Exhibition on Green Energy for Sustainable Development	International	19-03-2014 to 21-03-2014	Student Co convener	Thailand
IEEE ISGT ASIA 2015	International	03-11-2015 to 06-11-2015	Student convener	Bangkok, Thailand

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Publications:

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Vivek Mohan, R. Suresh, J. G. Singh, W. Ongsakul and N. Madhu	Microgrid Energy Management Combining Sensitivities, Interval and Probabilistic Uncertainties of Renewable Generation and Loads	<i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i>	7	262-270	June 2017	2.54
Vivek Mohan, Jai Govind Singh, Weerakorn Ongsakul	Sortino Ratio Based Portfolio Optimization Considering EVs and Renewable Energy in Microgrid Power Market	<i>IEEE transactions on Sustainable energy</i>	8	219-229	Jan 2017	4.9
Vivek Mohan, Jai Govind Singh, Weerakorn Ongsakul	An efficient two stage stochastic optimal energy and reserve management in a microgrid	<i>Elsevier Applied Energy</i>	160	28-38	2015	7.15
Vivek Mohan, Jai Govind Singh, Weerakorn Ongsakul & Reshma Suresh M.P.	Performance enhancement of online energy scheduling in a radial utility distribution microgrid	<i>Elsevier International Journal of Electrical Power and Energy Systems</i>	79	98-107	2016	3.28
Vivek Mohan, Jai Govind Singh, Weerakorn Ongsakul, Reshma Suresh M P	Economic and network feasible online power management for renewable energy integrated smart microgrid	<i>Elsevier Sustainable Energy Grids and Networks</i>	7	13-24	2016	
Sachin M K, Nimal Madhu, Vivek Mohan, Reshma Suresh and Jai Govind Singh	Generalized Approach for Enhanced Solar Energy Harvesting Using Stochastic Estimation of Optimum Tilt Angles: A Case Study of Bangkok	<i>DeGruyter-Green</i>	5	1-6	2015	

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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Venue	Year
Vivek Mohan, Jai Govind Singh, Weerakorn Ongsakul	Sortino Ratio Based Portfolio Optimization Considering EVs and Renewable Energy in Microgrid Power Market	IEEE PES General meeting	Chicago	2017
Vivek Mohan; Madhu, N; Ongsakul, W; Singh, J.G.; Reshma Suresh, M.P	Design of strategic information in the deregulated Indian power market: An agent-based approach	<i>International Conference and Utility Exhibition on Green Energy for Sustainable Development</i>	Thailand	2014
Vivek Mohan; Singh, J.G.; Ongsakul, W.; Nair, S.G	Online benefit optimization in a liberalized/free microgrid market model	<i>International Conference on Technological Advancements in Power and Energy (TAP Energy)</i>	Kerala	2015
Vivek Mohan, Reshma Suresh M P, Jai Govind Singh, Weerakorn Ongsakul, B Kalyankumar	Online Optimal Power Management Considering Electric Vehicles, Load Curtailment and Grid Trade in a Microgrid Energy Market	<i>IEEE ISGT ASIA</i>	Bangkok, Thailand	2015
Anand M.P, Vivek Mohan, Weerakorn Ongsakul, Reshma Suresh M P	Optimal Day Ahead scheduling of distributed EVs in a Smart Distribution Network	<i>IEEE ISGT ASIA</i>	Bangkok, Thailand	2015

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Vivek Mohan, Jai Govind Singh, Weerakorn Ongsakul, Arjun C Unni	Stochastic Effects of Renewable Energy and Loads on Optimizing Microgrid Market Benefits	ICSGT -Elsevier Procedia Technology	Coimbatore, India	2015
Vivek Mohan, Nimal Madhu, Jai Govind Singh, Reshma Suresh M P, Arjun C Unni	Optimal prioritization of reactive power ancillary service utilizing electric vehicles in an autonomous microgrid	ICEMS 2016	Jaipur, India	2016
Nimal Madhu, Vivek Mohan, Jai Govind Singh, Reshma Suresh M P, Sreehari G Nair	Interval effects of different load models on microgrid optimization	ICEMS 2016	Jaipur, India	2016
A. C. Unni, A. S. Junghare, Vivek Mohan and W. Ongsakul	PID, fuzzy and LQR controllers for magnetic levitation system	International Conference on Cogeneration, Small Power Plants and District Energy (ICUE)	Bangkok, Thailand	2016
Akhiya Sanal, Vivek Mohan, M.R. Sindhu	Real Time Energy Management and Bus Voltage Droop Control in Solar Powered Standalone DC Microgrid	IEEE TENSYP	Cochin, kerala, India	2017
Manoj P, Malini Frey, Renjith Mohan, Vivek Mohan, Vidal Conejo	Raising Educational Level of Rural Village Children Through Distance Learning Technology Secondary to Implementation of Reliable Sustainable Electrification System	IEEE Global Humanitarian Technology Conference (GHTC)	San Jose CA, USA	2017
Vivek Mohan, Vidal Conejo-García, Malini Frey, Renjith Mohan, Manoj Pokkiyarath, Sai Shibu, Maneesha V Ramesh and Aryadevi	Assessing Village Power Grid Problems for Development of Quality and Stable Supplemental Sustainable Energy	IEEE Global Humanitarian Technology Conference (GHTC)	San Jose CA, USA	2017

Invited Talks delivered

Topic	Date	Inviting Organization
Derivatives in Power Markets	Feb 2017	Amrita School of engineering, Kollam
Power System Analysis Toolbox (PSAT)	October 2011	Amrita Vishwa Vidyapeetham, Coimbatore
Smart Grids and Microgrids	May 2013	Amrita Centre for Wireless Networks and Applications
Efficient Energy Management Approaches in Microgrids	March 2016	Department of Electrical and Electronics Engineering, Manipal University
New methods for solving Smart grid problems	2017	Center for computational engineering

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		and networking, Amrita university
Design of strategic information in the deregulated Indian power market: An agent-based approach	May 2010	The Institution of Engineers (India)

Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member	IEEE	90354263
Member	IEEE PES	

Google Scholar & Researchgate Link:

<https://scholar.google.co.in/citations?user=pnJ4as0AAAAJ&hl=en>

https://www.researchgate.net/profile/Vivek_Mohan2