

# Dylan Lu

## Associate Professor in Power Electronics

*BE(HKPU), PhD(HKPU), SMIEEE, MIEAust*

## Academic Positions

- Associate Professor, University of Technology Sydney, Australia (7/2016-)
- Associate Professor, University of Sydney, Australia (1/2016-6/2016)
- Senior Lecturer, University of Sydney, Australia (2010-2015)
- Lecturer, University of Sydney, Australia (2006-2009)

## Industry Engagements

- Advisor, Okra Solar, Australia (2016-)
- Senior Design Engineer, Power<sup>e</sup>Lab Ltd., Hong Kong (2003-2006)
- Research Student Trainee, Newton Power Ltd., Hong Kong (2002-2003)

## Biography

Dylan Lu received his BEng(Hons) and PhD degrees in Electronic and Information Engineering from The Hong Kong Polytechnic University, Hong Kong, in 1999 and 2004 respectively.

From 2002 to 2003, he served as a Research Student Trainee with Newton Power Limited. In 2003, he joined Power<sup>e</sup>Lab Limited as a Senior Design Engineer. His major responsibilities include project development and management, customized circuit design, and contribution of research in the area of power electronics. In 2006, he joined the School of Electrical and Information Engineering, The University of Sydney, Australia, as a Lecturer where he was promoted to Associate Professor in 2016. He now holds an honorary position at the University of Sydney. From July 2013 to December 2013, he was with the University of Hong Kong as an Visiting Associate Professor. Currently, he is with the School of Electrical and Data Engineering, University of Technology Sydney as an Associate Professor.

He has published extensively in the area of power electronics. He holds two patents. His current research interests include power electronics circuits and control for efficient power conversion, power factor correction, consumer electronics, motor drives, renewable electrical energy systems, microgrid and grid-integration issues, and engineering education. He serves currently as an Associate Editor of the IEEE Transactions on Circuits and Systems II: Express Briefs, and the IET Renewable Power Generation. He is a member of the IEAust and a senior member of the IEEE.



## Dylan Dah-Chuan Lu

Associate Professor, University of Technology Sydney, Australia

Power electronics  
renewable energy systems  
engineering education

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TITLE	CITED BY	YEAR
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<a href="#">Single-stage AC/DC boost-forward converter with high power factor and regulated bus and output voltages</a> DDC Lu, HHC Lu, V Pjevalica IEEE Transactions on Industrial Electronics 56 (6), 2128-2132	65	2009
<a href="#">A single-switch ac/dc flyback converter using a CCM/DCM quasi-active power factor correction front-end</a> HS Athab, DDC Lu, K Ramar IEEE Transactions on Industrial Electronics 59 (3), 1517-1526	63	2012
<a href="#">A single phase voltage regulator module (VRM) with stepping inductance for fast transient response</a> DDC Lu, JCP Liu, FNK Poon, BMH Pong IEEE Transactions on Power Electronics 22 (2), 417-424	59	2007
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<a href="#">A novel stabilization method of LC input filter with constant power loads without load performance compromise in DC microgrids</a> M Wu, DDC Lu IEEE Transactions on Industrial Electronics 62 (7), 4552-4562	43	2015
<a href="#">Comparative study of maximum power point tracking algorithms for thermoelectric generators</a> I Laird, H Lovatt, N Savvides, D Lu, VG Agelidis Power Engineering Conference, 2008. AUPEC'08. Australasian Universities, 1-6	43	2008
<a href="#">A speed-sensorless FS-PTC of induction motors using extended Kalman filters</a> M Habibullah, DDC Lu IEEE Transactions on Industrial Electronics 62 (11), 6765-6778	39	2015
<a href="#">Single-stage AC-DC power-factor-corrected voltage regulator with reduced intermediate bus voltage stress</a> DDC Lu, DKW Cheng, YS Lee IEE Proceedings-Electric Power Applications 150 (5), 506-514	39	2003