

## Associate Professor Li, Xiao Dong

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*Prospective graduate students with background in electrical/electronic engineering and control, plus strong capabilities in English writing/reading, are welcome to apply for graduate study. Also, diligence and perseverance are highly recognized qualities. Limited research assistant (RA) position with MOP8000-12000/month salary may be provided for competitive candidates.*

### Academic Qualification:

Ph.D., University of Victoria, BC, Canada

M.A.Sc., University of Victoria, BC, Canada

B.Eng., Shanghai JiaoTong University, Shanghai, China

### Teaching Area

CE102 Analog Electronics Circuit

CE001 Electric Circuit Analysis

MIIC05 Advanced Topics in Electronics Engineering

### Research Area

Power Electronics: high-frequency converter topology, control and applications in renewable generation

### Working Experience

2009 - now: Lecturer/Assistant Professor/Associate Professor, Macau University of Science and Technology

2002-2009: Research Associate, University of Victoria, British Columbia, Canada

1994-2001: Electrical Engineer, HuaDian HongWan Diesel Power Co., ZhuHai, China

### Research Grants

PI, FDCT: 067/2011/A

PI, FDCT: 094/2013/A3

PI, FDCT: 004/2015/A1

PI, FDCT: 060/2017/A

PI, FDCT: 0065/2019/A2

### Patents:

**Xiaodong Li**, Song Hu, "Battery charger with power factor correction", **US patent no.: 9,515,504**

**B2**, Australian Innovation Patent, No.2015100179.

**Xiaodong Li**, "SYSTEM AND METHOD FOR CONTROLLING A CONVERTER CIRCUIT", **US**

**patent no.: 9,935,462 B2**, Australian Innovation Patent, No.2016100074

**Xiaodong Li**, "CONVERTER CIRCUIT AND OPERATING METHOD THEREOF", Australian Innovation Patent, No.2016100186

**Xiaodong Li**, "Semi-Dual-Active-Bridge Converter System and Methods Thereof", **US patent no.:**

**9,748,853 B1**, Australian Innovation Patent, No.2016101962

Chuan Sun, **Xiaodong Li**, "Systems and method for controlling a converter circuit", Australian Innovation Patent, No.2017100494

Academic Publication Citation Information:

<https://scholar.google.com/citations?user=5witSqUAAAAJ&hl=zh-CN>

Refereed Journal Papers:

- G. Chen, **X. Li**,  
*IEEE ACCESS* , vol.8, p. 131137 - 131149, 2020.
- S. Zhou, **X. Li**, Z.Zhong and  
*IET Power Electronics* , 13(9), p. 1746
- M. Lu, **X. Li** and  
*IEEE Transactions on Power Electronics* , 35(3),pp.3085-3096, 2020.
- Y. Tang, **X. Li**,  
*IET Power Electronics* , 12(6), pp: 1357-1367,  
2019
- S. Hu, **X. Li**,  
*IEEE Transactions on Power Electronics* , 34(1), pp: 904-  
915, 2019
- S-Z. Zhou, **X. Li**

**X. Li**

**X. Li**, "A LLC-type dual-bridge resonant converter: analysis, design, simulation and experimental results," *IEEE Transactions on Power Electronics* , 29(8), pp:4313-4321, 2014.

**X. Li**

*IEEE*

*Transactions on Power Electronics* , 29(8), pp:3930-3941, 2014

**X. Li**

*Electric Power Components*

*and Systems* , 42(7):746-754, 2014.

**X. Li**

bridge converter," *IEEE Transactions on Power Electronics* ,29(6), pp:2661-2665, June 2014.

**X. Li**

*IEEE Transactions on Industrial Electronics* , 59(2), pages: 1008-1019, 2012

**X. Li**

*IEEE Transactions on Power Electronics* , 25(4), pages: 850-862, 2010

**X. Li**

*IEEE Transactions on Industry Applications* ,43(2), pages:531-541, 2007

S. Nandi, H. Toliyat, **X. Li**

*IEEE Transactions on Energy Conversion* , 20(4), pages:719-729, 2005

#### International Conference Papers:

26. S. H, **X. Li**

IEEE International Conference on Industrial Electronics and Applications (**ICIEA**), Xi'an, China, June 4-6, 2019

25. C. Sun, **X. Li**

Active-Bridge Converter", 2018 IEEE International Power Electronics and Application Conference and Exposition (**PEAC**), ShenZhen, China, Nov. 4-6, 2018

24. S.-Z. Zhou, C. Sun, S. Hu, G. Chen, **X. Li**

Bridge Converter", International Power Electronics Conference, **IPEC-ECCE ASIA**, Niigata, Japan, May 20-24, 2018

23. S. Hu, **X. Li** and A. K.S . Bhat,

**IFEEC-ECCE ASIA**, Kaohsiung, Taiwan, June.3-7, 2017

22. B.-Y. Luan, S. Hu,Y.-F. Zhang and **X. Li**,

Applications (**ICIEA**), Siem Reap, Cambodia, June.18-20, 2017

21. S. Hu, Y.-F. Zhang and **X. Li**,  
(**ICIEA**),  
Siem Reap, Cambodia, June.18-20, 2017
20. M. Lu, S. Hu, S.-Z. Zhou, Y. Tang and **X. Li**,  
Applications(**ICIEA**), Siem Reap, Cambodia, June.18-20, 2017
19. M. Lu, S. Hu, Y. Tang, S.-Z. Zhou and **X. Li**,  
and Applications (**ICIEA**), Siem Reap, Cambodia, June.18-20, 2017
18. S. Hu, M. Lu, B.-Y. Luan and **X. Li**,  
ICIT),  
Taipei,Mar.14-17, 2016
17. B.-Y. Luan and **X. Li**  
IPEMC-ECCE ASIA, Hefei, May 23-25, 2016
16. S. Hu, M. Lu and **X. Li**  
th ICPE-ECCE Asia, Seoul, June 1-5, 2015.
15. Y.-J. Zhang, M. Lu and **X. Li**,  
th ICPE-ECCE Asia, Seoul, June 1-5, 2015.
14. **X. Li** , H.-Y. Li ,  
(**ECCE**),  
Denver, Colorado, USA, September 15-19, 2013.
13. **X. Li** , H.-Y. Li ,  
(**ICIEA**), pp: 49-54, Melbourne, Australia, June 19-21, 2013.
12. D. P. Devakumar, A. Rathore and **X. Li**  
Current-fed Full-bridge Isolated Dc/Dc Converter for Fuel Cell Applications: A Case Study  
) ,  
pp: 23 - 29, Kathmandu, Nepal, Sep. 2012
11. **X. Li**  
Conference on Industrial Electronics and Applications(**ICIEA**), pp: 769 - 774, Singapore, July 4-6  
2012
10. A. Rathore and **X. Li**  
Electronics and Drive Systems(**PEDS**), pages: 133-138, Singapore, Dec. 5-8 2011
9. **X. Li**  
Industrial Electronics and Applications(**ICIEA**), pp:316-321, June 21-23, Beijing, 2011
8. S. Sun, **X. Li**  
and Intelligent Transportation Systems (**PEITS**), pages: 179-182, ShenZhen, China, Nov. 2010
7. C. Zhao, **X. Li**  
Transportation Systems (**PEITS**), pp:183-186, ShenZhen, China, Nov. 2010
6. S. Nandi, **X. Li**  
International Conference on Advances on Energy Conversion Technologies (**ICAECT**), Manipal,  
India, Jan. 7-10, 2010
5. **X. Li**  
2nd Conference on Power Electronics and Intelligent Transportation System (**PEITS**), pages: 270-  
273, Shenzhen, China, Dec.19-20, 2009

#### 4. **X. Li**

Information Systems (**ICIIS**), pp.169-174, Peradeniya, Sri Lanka, Dec.29-31, 2009

#### 3. **X. Li**

in IEEE Energy Conversion Congress & Exhibition (**ECCE**), San Jose, USA, Sep. 2009

#### 2. **X. Li**

**PESC**), pages: 350-357, Island of Rhodes, Greece, June, 2008

#### 1. **X. Li**

**IEMDC**), pages: 1606-1613, San Antonio, TX, USA, May 15-18, 2005

### Personal Awards

**IPS**(Industrial Postgraduate Scholarship) from **NSERC** (National Science and Engineering Research Council of Canada), 2006

IEEE Power Engineering Society (**PES**) Best Paper Prize, 2007

**BOC** Excellent Research Award, Macau University of Science and Technology, 2013

### Student Awards

The 11<sup>th</sup> China Graduate Electronics Design Contest, First-class award in South China Division, Second-class award in Final Tournament, 2016

The 12<sup>th</sup> China Graduate Electronics Design Contest, First-class award in South China Division, 2017

The 14<sup>th</sup> China Graduate Electronics Design Contest, First-class award in Final Tournament, 2019

Dr. Song Hu, Graduate Research Award of Macau Science and Technology Award, 2018

### Professional Society Membership

Senior Member, Institute of Electrical and Electronics Engineers (**IEEE**)

Board member/Treasurer, **IEEE Macau Section**