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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

C C C C

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**,
Siem Reap, Cambodia, June.18-20, 2017
(**ICIEA**),
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**
Cth ICPE-ECCE Asia, Seoul, June 1-5, 2015.
15. Y.-J. Zhang, M. Lu and **X. Li**,
Cth 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 11th China Graduate Electronics Design Contest, First-class award in South China Division, Second-class award in Final Tournament, 2016

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

The 14th 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**