研究生期间如何发表高水平学术论文

向 往

2017/3/30

Overview

[1] Research on Fast Solid State DC Breaker Based on Current Natural Zero Crossing Point [J]. Journal of Modern Power System and Clean Energy.

[2] Self-blocking Sub modules of MMC Capable of Isolating dc Fault Currents [J]. IEEE Transactions on Power Electronics.

[3] Overhead MMC-HVDC Transmission system Based on Self-blocking Hybrid MMC [C]. **2015 PES GM.**

[4] Improved Modulation Method and Saturation Controller for Hybrid Cascaded Multilevel Converter [J]. IEEE Transactions on Power Delivery.

[5] Internal Dynamics and DC fault Isolating Mechanism of Self-blocking MMC [J]. IEEE Transactions on Power Delivery.

[6] Parameter design and operating zone of hybrid cascaded multilevel converter under asymmetrical square-wave modulation method of the director switch [J]. IET Generation, Transmission & Distribution.

[7] Equivalent Electromagnetic Model of Self-blocking MMC with DC fault isolation capability [C]. **2016 PES GM.**

[8] Equivalent electromagnetic model and fast recovery strategy of overhead VSC-HVDC based on SB MMC [J]. IEEE Transactions on Power Delivery.

[9] Power balancing control of a MTDC constructed by multiport front-to-front DC-DC converters [J]. IET Generation, Transmission & Distribution.

[10] Four-channel Control of Hybrid MMC With Pole-to-ground DC Fault Ride Through Capability [C]. **2017 PES GM.**

[11] Enhanced Independent pole control of Hybrid MMC-HVDC System [J]. IEEE Transactions on Power Delivery.

[12] Pole-to-Ground DC Fault Ride Through Control of Symmetrical Monopole Hybrid MMC [J]. IEEE Transactions on Power Delivery.

Outlines

1. **英文期刊论文介绍与评审流程**

2. **论文撰写时间管理与规划**

3. **英文论文撰写相关问题**

IEEE Transactions

Journal	Scope	IF
Industrial Electronics (IE)	<u>Applications of electronics</u> (e.g. power electronics and drive control techniques, system control and signal processing,…)	6.383
Power Electronics (PEL)	<u>Power electronics</u> related subjects (e.g. original component, device, module, circuit, control, system…)	4.953
Sustainable Energy (SE)	<u>Energy sources</u> related subjects (e.g. photovoltaic, geothermal, battery and energy storage …)	3.727
Power Systems (PWRS)	<u>Power system level</u> subjects (e.g. power system planning, transient stability, network reconfiguration, …)	3.342
Smart Grid (SG)	<u>Interdisciplinary subjects of power and ICT</u> (e.g. metering infrastructure, cyber security, home automation, ...)	3.19
Energy Conversion (EC)	<u>Electric power generating and energy storage equipment</u> related subjects(e.g. distributed or renewable sources, ...)	2.596
Power Delivery (PWRD)	<u>T&D equipment</u> related subjects (e.g. switchgear, grounding, relay protection, HVDC link, …)	2.032
Industry Applications (IA)	<u>Industry applications</u> related subjects (e.g. development, manufacture, and application of electrical systems,, …)	1.901

Other Journals

Journals	Scope	IF
IET Power Electronics	Applications of power semiconductor technology; circuits; devices; techniques and performance management	1.683
IET Generation, Transmission & Distribution	Electric power generation, transmission and distribution	1.576
IET Renewable Power Generation	Renewable energy technology, power generation and systems integration	1.562
Applied Energy	Energy conversion and conservation, optimal use of energy resources	5.746
International Journal of Electrical Power & Energy Systems	Electrical power generation, transmission, distribution and utilization	2.587
Electric Power Systems Research	Generation, transmission, distribution and utilization of electrical energy	1.809

IET (rows 1–3)
Elsevier (rows 4–6)

IEEE PWRD Acceptance Rate

PES Transaction papers have a low acceptance rate about 20%

However, in-scope papers have a good chance to be accepted:

- About 1700 paper submitted to PWRD each year

- 350 papers are to be published (i.e. **20% acceptance rate**)

- 30% papers are rejected due to out of scope or other issues. So only about 1200 papers go through the review process

- The acceptance rate for papers been fully reviewed is actual about 30% =(350/1200)

March 1, 2015 – March 1, 2016

Country	Total	Total%	Accept Ratio
China	392	24.3%	19.1%
Iran, Islamic Republic of	162	10.0%	7.8%
India	157	9.7%	8.3%
United States	149	9.2%	20.1%
Canada	93	5.8%	32.3%
Brazil	78	4.8%	15.4%
England	64	4.0%	21.9%
Australia	44	2.7%	20.5%
Italy	40	2.5%	15.0%
Egypt	30	1.9%	6.7%
Spain	30	1.9%	20.0%
Poland	27	1.7%	29.6%
Mexico	24	1.5%	20.8%
Malaysia	19	1.2%	5.3%
Taiwan	18	1.1%	5.6%
Korea, Republic of	17	1.1%	23.5%
Sweden	17	1.1%	35.3%
Turkey	17	1.1%	0.0%
France	14	0.9%	14.3%
Germany	14	0.9%	14.3%
Singapore	13	0.8%	15.4%
Total	1,615	100.0%	17.09%

Process of Paper Review

Scenario 1 (~65% cases)

1 week: Admin completes initial screening

1 week: EIC assigns the paper to editor

1.5 week: editor assigns paper to reviewers

6 week: Review work done (Requirement is 4 weeks)

1.5 week: Editor makes recommendation

1 week: EIC makes decision

Total: 12 weeks (3个月)

Scenario 2 (~30% cases)

Editor finds out there are 1 or 2 reviews short after 6 weeks due to
1) irresponsive reviewers or 2) the paper cannot draw reviewer interest.

Editor tries to find new reviewers. So additional 5~6 weeks are needed

Total: 18 weeks (4个半月)

This is often a paper issue since the paper cannot draw reviewers' interests. In about 30% above cases, it is a reviewer issue
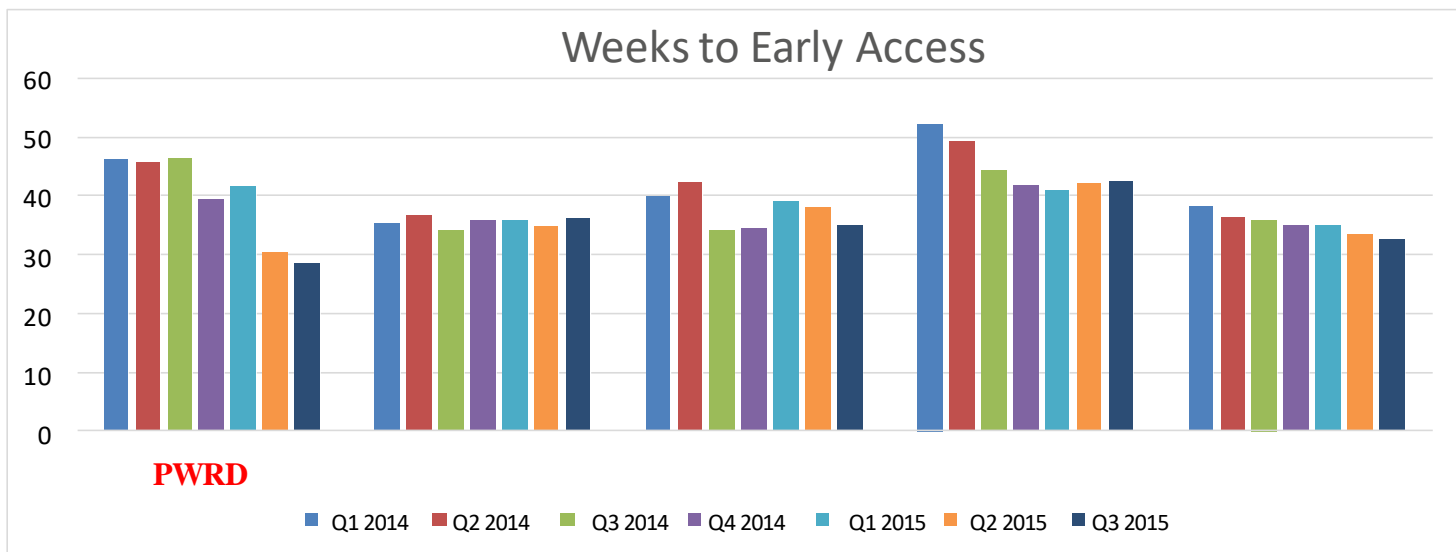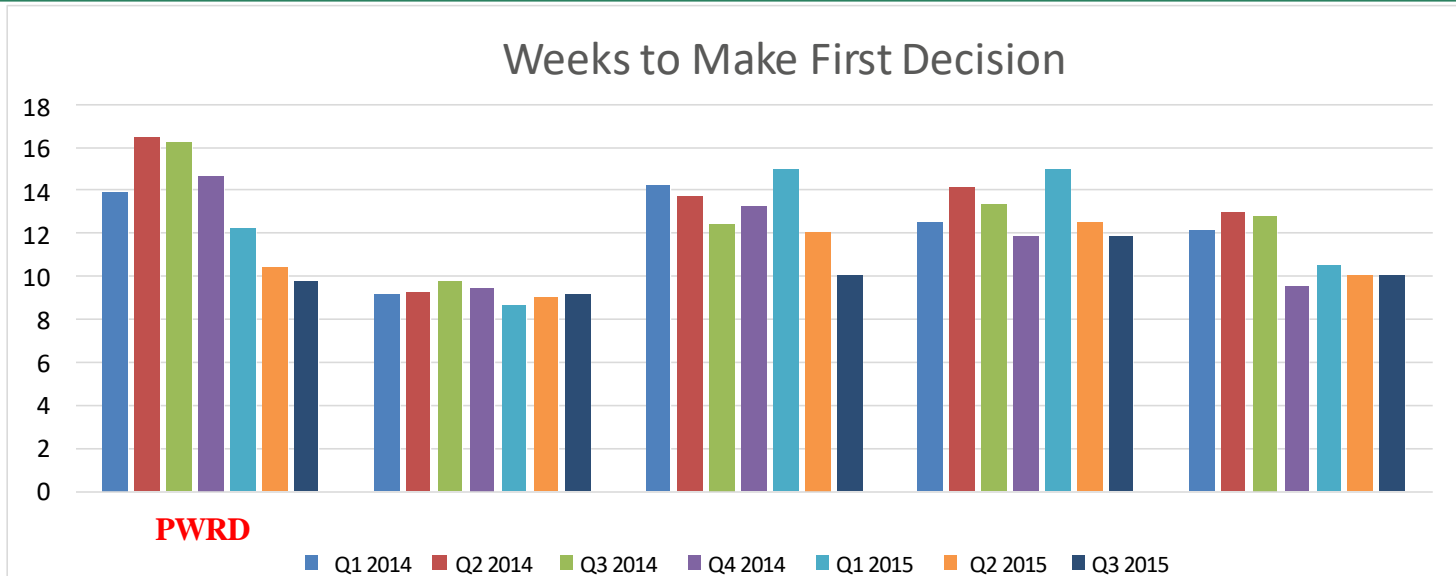
Scenario 3 (~5% cases)

The 2nd round reviewers still cannot complete the work. All reminding emails have been "spent". The process gets stuck.

Total: X months (not acceptable)

Re-submit: 6个月
R0 revision: 6 weeks (1.5月)
R1-2 revision: 4 weeks (1月)

Solutions: 1) Automated emails for paper review status update;
2) Author email to EIC after 4.5 months for R0 paper, 2 months for non-R0

Duration of Paper Review

Weeks to Make First Decision

PWRD

Q1 2014 Q2 2014 Q3 2014 Q4 2014 Q1 2015 Q2 2015 Q3 2015

Weeks to Early Access

PWRD

Q1 2014 Q2 2014 Q3 2014 Q4 2014 Q1 2015 Q2 2015 Q3 2015

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Milestones of Dissertation

◆ **博士论文**

> **3月20日提交盲审，5月25日前提交所有材料**
>
> **工作确定之后即可开始写， 2.20前拿出初稿，**
>
> **2.20-3.20多轮修改**

◆ **硕士论文**

> **4月20日提交盲审，5月25日前提交所有材料**
>
> **工作确定之后即可开始写（提前确定提纲），**
>
> **3.20前拿出初稿，3.20-4.20多轮修改**
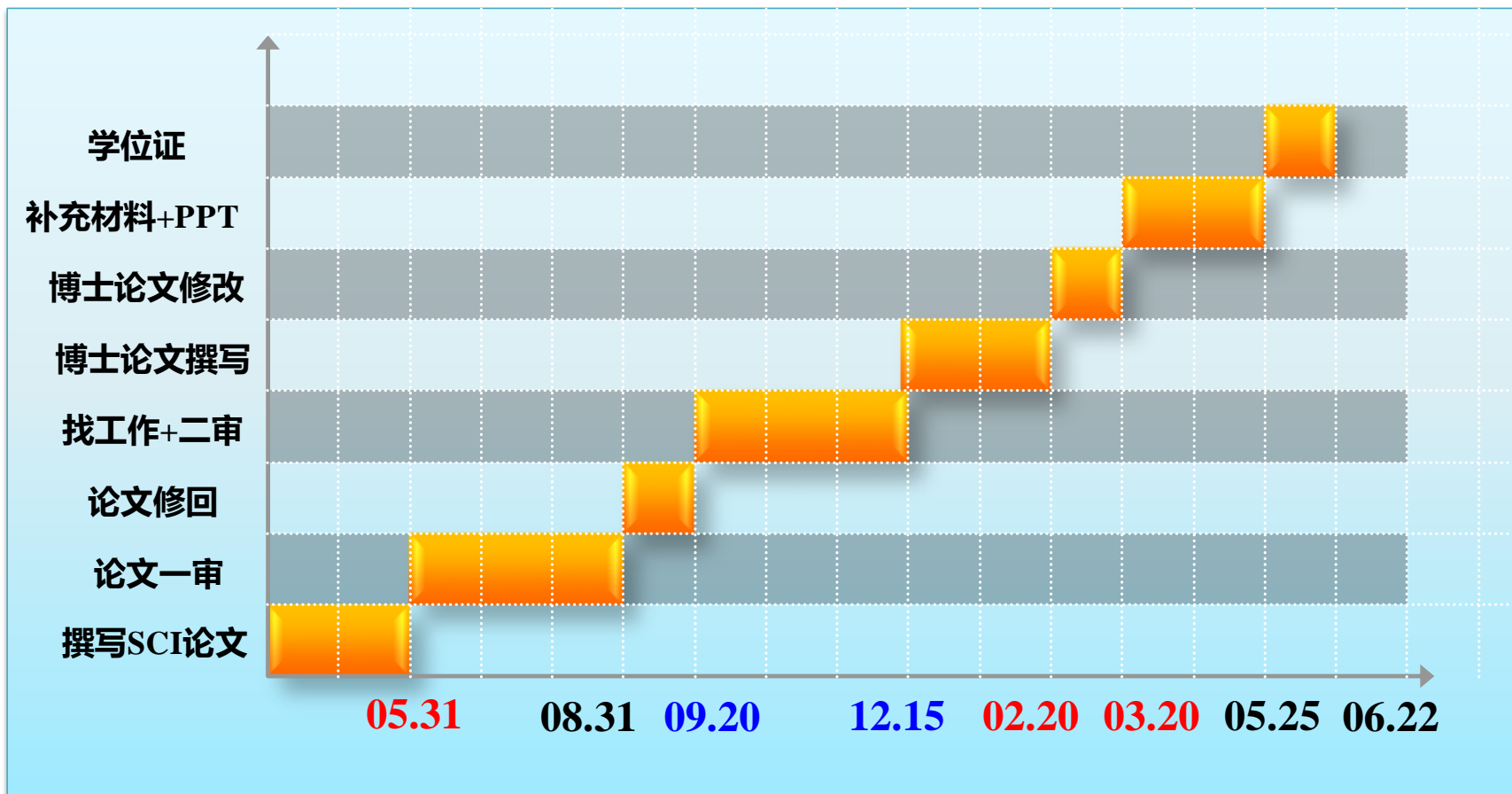
博士毕业最晚时间节点（尽力避免）

Timetable for Reference

[1] Research on Fast Solid State DC Breaker Based on Current Natural Zero Crossing Point [J]. Journal of Modern Power System and Clean Energy. **2014.03**

[2] Self-blocking Sub modules of MMC Capable of Isolating dc Fault Currents [J]. IEEE Transactions on Power Electronics. **2014.08**

[3] Overhead MMC-HVDC Transmission system Based on Self-blocking Hybrid MMC [C]. 2015 PES GM. **2014.11**

[4] Improved Modulation Method and Saturation Controller for Hybrid Cascaded Multilevel Converter [J]. IEEE Transactions on Power Delivery. **2014.12**

[5] Internal Dynamics and DC fault Isolating Mechanism of Self-blocking MMC [J]. IEEE Transactions on Power Delivery. **2015.05**

[6] Parameter design and operating zone of hybrid cascaded multilevel converter under asymmetrical square-wave modulation method of the director switch [J]. IET Generation, Transmission & Distribution. **2015.10**

[7] Equivalent Electromagnetic Model of Self-blocking MMC with DC fault isolation capability [C]. 2016 PES GM. **2015.11**

[8] Equivalent electromagnetic model and fast recovery strategy of overhead VSC-HVDC based on SB MMC [J]. IEEE Transactions on Power Delivery. **2015.12**

[9] Power balancing control of a MTDC constructed by multiport front-to-front DC-DC converters [J]. IET Generation, Transmission & Distribution. **2016.05**

[10] Four-channel Control of Hybrid MMC With Pole-to-ground DC Fault Ride Through Capability [C]. 2017 PES GM. **2016.11**

[11] Enhanced Independent pole control of Hybrid MMC-HVDC System [J]. IEEE Transactions on Power Delivery. **2017.01**

[12] Pole-to-Ground DC Fault Ride Through Control of Symmetrical Monopole Hybrid MMC [J]. IEEE Transactions on Power Delivery. **2017.01**

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3. **英文论文撰写相关问题**

I. 选题/创新点

来源

❖ **项目内容。根据项目研究成果，撰写学术论文**

❖ **导师/副导师指导。根据导师/副导师提供的idea，撰写学术论文**

❖ **个人研究。根据个人阅读文献以及思考，撰写学术论文**

内容

每个学科都有其特点，关键在于研究是否深入，英文撰写表达/包装是否到位

II. 英文写作

❖ **写作逻辑。文章整体逻辑、段落逻辑、句子逻辑**

❖ **句子表达。简洁明了，少用长句，少用主观性词汇以及强烈情感的词汇**

❖ **英语语法。参照充裕组(Grammarly，phrase bank)**

建议：多读英文文献、多摘录、多写、多比较

III. 审稿意见回复

IEEE论文评分细则

Rating	Quality of Subject	Quality of Contributions	Quality of Research	Quality of Presentation
1 (Unfit)				
2 (Deficient)				
3 (Marginal)				
4 (Acceptable)				
5 (Valuable)				

For criteria to assess a paper

1. Subject: The research topic shall be realistic and have some significance
2. Contribution: The idea is original and innovative. It may have potential impacts
3. Research: The work done to support the contribution is rigorous and has depth
4. Presentation: The writing and illustrations can be easily understood by readers

III. 审稿意见回复

❖ 回复质疑创新性的意见（难度 ★ ★ ★ ）

P1. The proposed Enhanced self-blocking sub-modules (Fig. 4) which can be redrawn as a **simple Full Bridge rectifier**, like Fig. 1(b). Please explain the novelty.

P2. The authors need to address the comments. Particularly, one of the reviewers has raised a concern over the novelty on this paper compared to the **existing literature**.

P3.1 did the authors not consider using a real time simulation platform to check the actual real time validity of the control structure.

P3.2 I really think this proposed control approach needs to be tested with a real time simulator. I have worked in this space and have experience in testing the robustness of controllers.

P3.3 again to look at implementing this controller with a real time simulator would be of benefit

回复策略：一定要增加不同于现有文献的研究内容，突出差异性，质量需要质的提升

III. 审稿意见回复

❖ **回复质疑创新性的意见（难度 ★ ★ ）**

P1. The paper is not organized well, and the paper's quality is not good, too. The paper unsatisfactorily shows the aims, methods and results. There are no clear thinking, good format, well analysis, and improved results in performance in whole paper.

P2. Internal dynamics, power balancing control and fault performance of a MF2F have already been discussed in [15], [21]; please state the main contribution of this paper.

回复策略：梳理文章结构，突出文章创新点，根据其他审稿人意见增加部分研究内容

汇报完毕

谢谢