

2018年 11月 12日

大阪工業大学長

西村泰志 殿

氏名 西山典禎



論文目録

主論文

- 題目 埋込磁石同期モータ (IPMSM) の磁石配置および配向着磁と高温減磁特性向上に関する研究 1 篇 1 冊

副論文

1. 西山典禎・本田幸夫：二相，三相通電方式を組み合わせた高温環境下集中巻 IPMSM の減磁評価方法の提案，電気学会，電気学会論文誌 D, Vol. 138, No.7, pp.591-597, (2018年7月1日発行済)
2. 西山典禎・上村弘樹・本田幸夫：斜め磁場配向 Halbach Magnet Array を応用した集中巻 IPMSM の減磁耐力向上に関する研究，電気学会，電気学会論文誌 D, Vol. 138, No.10, pp.793-799, (2018年10月1日発行済)
3. N. Nishiyama, H. Uemura, and Y. Honda : "Highly Demagnetization Performance IPMSM under Hot Environments", (高温環境下において高減磁耐力特性を有する埋め込み磁石同期モータ) IEEE Transactions on Industry Applications January/February 2019 regular issue, (2019年1月1日発行予定 エビデンス添付 別紙1)

参考論文

- (1). N. Nishiyama, H. Uemura, and Y. Honda : " The Study of Demagnetization of the Magnetic Orientation of Permanent Magnets for IPMSM with Field-Weakening Control under Hot Temperature", (高温下における着磁配向磁石を用いた埋め込み磁石同期モータの弱め界磁制御に関する研究), Journal of Electrical Engineering, Volume 6, Number 3, May-June 2018, pp.144-150, (2018年5月1日発行済 エビデンス添付 別紙2)

- (2). N. Nishiyama, H. Uemura, and Y. Honda : "The Study of Highly Demagnetization Performance IPMSM under Hot Environments", (高温環境下での埋め込み磁石同期モータの高減磁耐力特性の研究), Proc. of International Conference on Electrical Machines and Systems 2017, IEEE Xplore INSPEC Accession Number 17239965, pp.1-6, Date of Conference: 11-14 Aug. 2017, (国際会議にて 2017 年 8 月 11 日発表済 エビデンス添付 別紙 3)
- (3). N. Nishiyama, H. Uemura, and Y. Honda : "The Optimum Design of the Magnetic Orientation of Permanent Magnets for IPMSM under Hot Environments" (高温環境下における着磁配向磁石を用いた埋め込み磁石同期モータの最適設計), Proc. of IEEE International Conference on Power Electronics and Drive Systems 2017, pp.380-385, Date of Conference: 12-15 Dec. 2017, (国際会議にて 2017 年 12 月 12 日発表済 エビデンス添付 別紙 4)
- (4). 西山典禎・本田幸夫：傾斜磁場配向磁石を V 字配置した高温対応型永久磁石同期モータの開発, 電気学会研究会資料, MAG-16-2010, LD-16-145, pp.23-28 (2016 年 12 月 5 日発行済)
- (5). 上村弘樹・西山典禎・本田幸夫：斜め磁場配向磁石を V 字配置した埋込磁石同期モータの減磁特性, 平成 29 年電気学会全国大会, V, p.15, (2017 年 3 月 15 日発行済)

以上

Nishiyama Noriyoshi (西山 典禎)

差出人: IEEE IAS Publications <onbehalf@manuscriptcentral.com>
送信日時: 2018年8月2日木曜日 23:47
宛先: Nishiyama Noriyoshi (西山 典禎)
件名: 2017-EMC-1398.R2 - Highly Demagnetization Performance IPMSM under Hot Environments
添付ファイル: Attached file: TIA55Nr1-03--2017-EMC-1398.R2.docx; Attached file: IAS-author-change-responsibility-letter-2019.docx
分類項目: 赤の分類

02-Aug-2018

2017-EMC-1398.R2 - Highly Demagnetization Performance IPMSM under Hot Environments

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Your paper has been scheduled for the January/February 2019 regular issue of the IEEE Transactions on Industry Applications. Please see attachments for details.

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Sincerely,
Dr. Thomas Nondahl

訳

2018年8月2日

2017-EMC-1398.R2 – “ Highly Demagnetization Performance IPMSM under Hot Environments”

西山さん、

あなたの論文は IEEE Transactions の 2019 年 1 月 / 2 月の定期刊行の the IEEE Transactions on Industry Applications. に予定されています。

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Dr. Thomas Nondahl

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Again, thank you for the time and effort that went into creating this paper.

Very truly yours,

Dr. Thomas A. Nondahl, Editor
IEEE Transactions on Industry Applications
Email: t.nondahl@ieee.org

Nishiyama Noriyoshi (西山 典禎)

差出人: electrical <electrical@davidpublishing.com>
送信日時: 2018年3月20日火曜日 11:15
宛先: Nishiyama Noriyoshi (西山 典禎)
件名: Re: RE: To Yukio Honda--Invitation from Journal of Electrical Engineering,USA
分類項目: 赤の分類

Dear Noriyoshi Nishiyama,

Thank you so much for your contribution.

We have received

your manuscript "The Study of Demagnetization of the Magnetic Orientation of Permanent Magnets for I PMSM with Field-Weakening Control under Hot Temperature", and the paper number is JEE20180318-02. The manuscript will be forwarded to our reviewing committee and the result will be sent to you within 15 days.

best regards,
Ceil Miller

electrical

From: nishiyama.noriyoshi
Date: 2018-03-18 10:03
To: electrical@davidpublishing.com
CC: dhonda98@gmail.com
Subject: RE: RE: To Yukio Honda--Invitation from Journal of Electrical Engineering,USA
Dear Ceil Miller

Thank you so much for sending the template (Template of our article.docx).
We will submit our manuscript, so please check.
Please see the attached file (___The Study of Demagnetization.docx).

Please let me know if you have any problems.

Sincerely yours,
Noriyoshi Nishiyama

From: electrical [<mailto:electrical@davidpublishing.com>]
Sent: Friday, December 29, 2017 6:49 PM
To: Nishiyama Noriyoshi (西山 典禎)
Subject: Re: RE: To Yukio Honda--Invitation from Journal of Electrical Engineering,USA

Dear Noriyoshi Nishiyama,

Attached file is the template of our paper, please send your manuscript to us via email directly when you finished.

best regards,

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P1

親愛なる 西山典禎

あなたの貢献に感謝します。

あなたの原稿を受け取っています。

"The Study of Demagnetization of the Magnetic Orientation of Permanent Magnets for IPMSM with Field-Weakening Control under Hot Temperature"

論文番号 JEE20180318-02 は審査委員会に転送され、結果は 15 日以内にあなたに送付されます。

宜しく申し上げます。

Cecil Mille

Electrical

P6

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Nishiyama Noriyoshi (西山 典禎)

差出人: ICEMS2017 <icems2017@easychair.org>
送信日時: 2017年5月8日月曜日 17:34
宛先: Nishiyama Noriyoshi (西山 典禎)
件名: ICEMS2017 notification for paper 868
分類項目: 赤の分類

Dear Dr. Noriyoshi Nishiyama,

Thank you for submitting your digest to ICEMS2017 (<http://www.icems2017.org/>).

On behalf of the Technical Program Committee, we are pleased to inform you that the following one page digest has been accepted for presentation at the conference based on the reviewers' comments:

Number: 868

Title: The Study of Highly Demagnetization Performance IPMSM (Interior Permanent Magnet Synchronous Motor) under Hot Environments

Please check the following important information for full paper submission, registration and visa requirement for visiting Australia.

1. Full Paper Preparation and Submission:

All authors of accepted digests are required to submit their full papers online by 1 July 2017. The manuscript instruction and the online submission system will be available soon. Please check the bottom of this message and your Author Centre to see if there are any reviewers' comments that you still need to address when you prepare your final manuscript. Complete all corrections and/or modifications required by the reviewers.

Presentation type (Oral/Poster) and schedule will be announced after the review of full manuscripts in early July.

2. Registration Requirement:

All presenting authors are required to complete conference registration before submitting their full papers by 1 July 2017 (early bird). Please check the Conference webpage (www.icems2017.org) for details.

3. Publication

All the authors can submit the full conference papers for uploading to IEEE Xplore. Some selected ones will be recommended for publication in one of the following two journals:

- (1) Journal of International Conference on Electric Machines and Systems, and
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Please feel free to contact us by email to organizer@icems2017.org for any inquiries.

We look forward to seeing you in Sydney.

Yours sincerely,

Z.Q. Zhu

Chairman, ICEMS2017 Technical Program Committee

----- REVIEW 1 -----

PAPER: 868

TITLE: The Study of Highly Demagnetization Performance IPMSM (Interior Permanent Magnet Synchronous Motor) under Hot Environments

AUTHORS: Noriyoshi Nishiyama, Hiroki Uemura and Yukio Honda

Overall evaluation: 2 (accept)

----- Overall evaluation ----- This paper examines how changing the magnetic orientation of permanent magnets in IPMSMs affects their demagnetization resistance and torque performance. Since the magnetic field changes with the orientation of the PMs, it is also necessary to include other electro-magnetic performance such as cogging torque, torque ripple, back-EMF, losses, efficiency and flux-weakening performance in the full paper.

----- REVIEW 2 -----

PAPER: 868

TITLE: The Study of Highly Demagnetization Performance IPMSM (Interior Permanent Magnet Synchronous Motor) under Hot Environments

AUTHORS: Noriyoshi Nishiyama, Hiroki Uemura and Yukio Honda

Overall evaluation: 3 (strong accept)

----- Overall evaluation ----- This is a interesting and topical idea to improve an important aspect of PM machine design. The simulation results presented in the digest look promising.

Some discussion of the effect of magnet angle on back-emf would be useful.

----- REVIEW 3 -----

PAPER: 868

TITLE: The Study of Highly Demagnetization Performance IPMSM (Interior Permanent Magnet Synchronous Motor) under Hot Environments

AUTHORS: Noriyoshi Nishiyama, Hiroki Uemura and Yukio Honda

Overall evaluation: 3 (strong accept)

----- Overall evaluation ----- The short digest is well written and explains the work well. More work has been promised, and with those results included, the full paper is expected to be a good one.

----- REVIEW 4 -----

PAPER: 868

TITLE: The Study of Highly Demagnetization Performance IPMSM (Interior Permanent Magnet Synchronous Motor) under Hot Environments

AUTHORS: Noriyoshi Nishiyama, Hiroki Uemura and Yukio Honda

Overall evaluation: 2 (accept)

----- Overall evaluation ----- Good paper that studies the effect of oblique magnetization direction in a parellelogram PMs in IPMSM at high temperature. The FEA results show improved resistance towards demagnetization with change in magnetization direction. The authors are requested to provide torque ripple information with varying magnetization angle.

訳

西山典禎

ダイジェストを ICEMS2017 (<http://www.icems2017.org/>) に提出していただき、ありがとうございます。

テクニカルプログラム委員会を代表して、査読者のコメントに基づいて、1 ページのダイジェストが会議でのプレゼンテーションに受け入れられたことをお知らせします。

・レビュー評価

----- REVIEW 1 -----

総合評価：2（受け入れる）

本稿では、IPMSM の永久磁石の磁化方向をどのように変化させると消磁抵抗とトルク性能にどのように影響するかを調べている。永久磁石の向きに伴って磁場が変化するため、コギングトルク、トルクリップル、逆起電力、損失、効率、全減速性能などの他の電磁性能も含める必要があります。

----- REVIEW 2 -----

総合評価：3（強く受け入れる）

これは、永久磁石モータ設計の重要な側面を改善するための興味深いトピックです。ダイジェストで提示されたシミュレーション結果は有望です。逆起電力に対する磁石角度の影響に関するいくつかの議論が有用であろう。

----- REVIEW 3 -----

総合評価：3（強く受け入れる）

短いダイジェストは良く書かれており、作業をうまく説明しています。

より多くの取り組みが約束されており、その結果を含めて、完全な論文が良いと評価されています。

----- REVIEW 4 -----

総合評価：2（受け入れる）

高温下での IPMSM 中の平行四辺形体磁石における斜め磁化方向の影響を調べる良い論文です。FEA の結果は磁化方向の変化に伴う減磁に対する抵抗性が向上していることを示しています。著者らは、磁化角度を変えてトルクリップル情報を提供することが求められている。

以上

Nishiyama Noriyoshi (西山 典禎)

差出人: Program Chair <peds17@itekcms.com>
送信日時: 2017年6月16日金曜日 22:26
宛先: Nishiyama Noriyoshi (西山 典禎)
CC: Hiroki Uemura; Yukio Honda
件名: [PEDS 2017] Paper Acceptance Notification for Paper ID: 421
分類項目: 赤の分類

Dear Mr. Noriyoshi Nishiyama

Greetings from PEDS 2017!

We are pleased to inform you that your paper "The Optimum Design of the Magnetic Orientation of Permanent Magnets for IPMSM under Hot Environments" based on your extended summary has been accepted by the Technical Programme Committee of the 12th IEEE International Conference on Power Electronics and Drive Systems (IEEE PEDS 2017), which is to be held in Honolulu, Hawaii, USA, 12 - 15 December 2017.

Paper ID: 421

Paper title: The Optimum Design of the Magnetic Orientation of Permanent Magnets for IPMSM under Hot Environments

Please check carefully on the guidelines governing final paper format and required information. This information is available on the conference website. The conference website will be open to receive final papers after

20 June 2017 and the final paper submission deadline is on 30 July 2017.

Please submit your final paper in PDF (with the conference title information and copyright information on title page) to the authors' submission portal.

Please do not insert any page number in the paper.

All papers are required to be presented at the conference, either by oral or poster form. The technical session schedule and presentation format are now under arrangement. We will inform all authors once the presentation information is available. The arrangement regarding the presentation format will be based on a combination of factors including your stated preference and your paper's match with the session topics.

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We thank you for your participation in IEEE PEDS 2017 and look forward to meeting you in Honolulu, Hawaii !

With Warmest Regards

IEEE PEDS 2017 Technical Programme Committee www.ieee-peds.org

12th IEEE International Conference on Power Electronics and Drive Systems (PEDS 2017)

<http://itekcms.com/peds17>

訳

西山典禎様

PEDS 2017 からのご挨拶！

"The Optimum Design of the Magnetic Orientation of Permanent Magnets for IPMSM under Hot Environments"

というあなたの論文が、12th IEEE International Conference on Power Electronics and Drive Systems (IEEE PEDS 2017)の Technical Programme Committee によって承認されたことをお知らせします。