

# المجلات العلمية الرصينة والية النشر فيها: أفكار ومقترحات

د. مصطفی خضیر عبادی mustafalwani@yahoo.com

قسم هندســة العمارة/ كلية الهندسة/ جامعة بابل





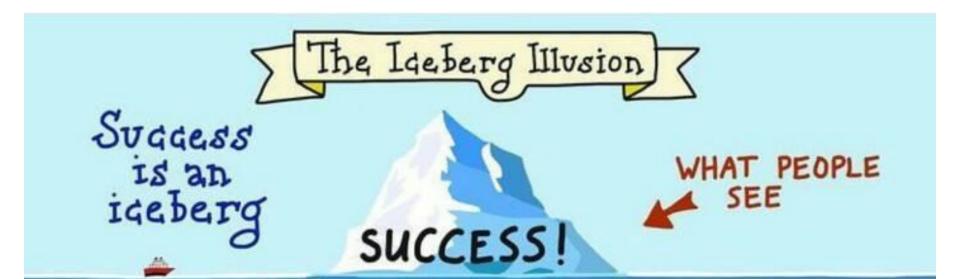
## المحاور الرئيسية

النشر العالمي العراقي

اهمية النشر العالمي

تطوير المهارات البشرية للتدريسيين

الية كتابة البحث العلمي



## النشر العالمي- كن صبورا

- Not easy but not difficult.
- You need to be patient.
- It may take up to 6 months-2 years to get your paper accepted.
- The paper may be rejected twice and then accepted



http://www.mbuguanjihia.com/wp-content/uploads/2014/08/Quantity-v-Quality-300x300.jpg





# أهمية النشر العالمي في مجلات ضمن تصنيفات عالمية

## الترقية العلمية

صفحتنا عن الفيسبوك Iraq Scholar

#### ملخص متطلبات عدد بحوث الترقية للتخصصات العلمية

Iraq Scholar

• نقاط على تقويم البحوث

البحث المنشور في
 سكوبس لايقوم

• نقاط اعلى

النقاط المطلوبة		11 4 4 4	m 844			
	الاسم الثالث	الاسم الاول الاسم الثاني		نوع المجلة	اللقب	
	21	24	30	سكوبس		
46	14	16	20	اجنبية	مدرس	
	10.5	12	15	محلية	1000 1000	
52	14	16	20	سكوبس	استاذ مساعد	
	10.5	12	15	اجنبية		
	7	8	10	محلية		
59	14	16	20	سكوبس		
	7	8	10	اجنبية	استلأ	
	3.5	4	5	محلية		

ترقية محلية		ترقية سكوبس				
تقبل البحوث للترقية	ثوع البحث	عدد البحوث	تقبل البحوث للترقية	نوع البحث	عدد البحوث	
بعد تقييمها داخل العراق	احدهم منفرد	4	بدون تقییم	مشترك (احدهم الاسم الاول)	2	مدرس
بعد تقييمها داخل العراق	احدهم منفرد	7-6	بدون تقییم	مشترك (احدهم الاسم الاول)	4-3	استاذ مساعد
بعد تقييمها داخل وخارج العراق	احدهم متفرد	17-12	بدون تقییم	مشترك (احدهم الاسم الاول)	4-3	استاذ

## تصنيف QS العالمي للجامعات

- 1. Academic reputation (40%)
- 2. Employer reputation (10%)
- 3. Student-to-faculty ratio (20%)

## 4. Citations per faculty (20%)

- 5. International faculty ratio (5%)
- 6. International student ratio (5%)

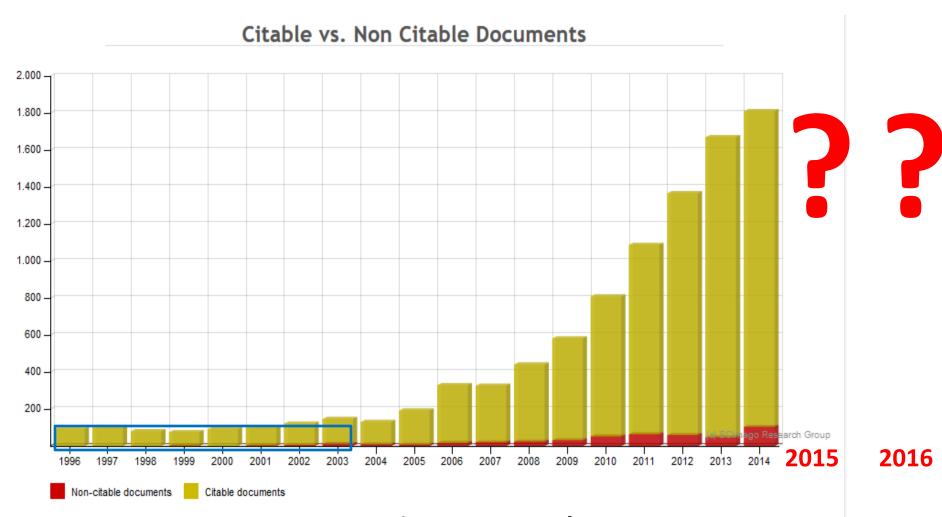
## أحصاءات لعدد البحوث العراقية المنشورة عالميا ٢٠١٦-١٩٩٦

Scimago Lab, Copyright 2007-2016. Data Source: Scopus®

## عدد البحوث المنشورة في الشرق الاوسط 1996-2016



## عدد البحوث العراقية 1996-2016



**Source: SJR SCimago power by SCOPUS** 

## احصائیات جدیدهٔ ۲۰۱۶

- بالرغم من الصعوبات
  - عدم توفر المال
- نتوقع ان يقل عدد البحوث في ٢٠١٦

بحث تم 2766 نشرها في ٢٠١٦

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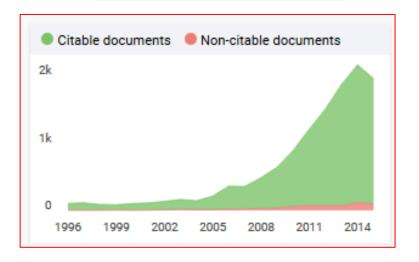
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1996 1999 2002 2005 2008 2011 2014

۱۷۹۳ بحث تم نشرها قی ۲۰۱۵



## التسلل العالمي للبحوث العراقية

In 2003,
106 out of 229

In 2014,
69 out of 229

In 2016,
66 out of 233

45 Hungary	9.281	8.680	4.968	1.191	0,54	301
46 Ukraine	9.218	8.931	2.727	913	0,30	174
47 Ea Colombia	6.795	6.432	2.418	509	0,36	169
48 🔤 Slovakia	6.711	6.459	2.147	775	0,32	180
49 💴 Serbia	6.391	6.010	2.581	627	0,40	100
50 Tunisia	5.863	5.480	1.408	445	0,24	109
51 ECroatia	5.533	5.186	2.245	518	0,41	177
52 Indonesia	5.499	5.341	1.383	411	0,25	140
53 📺 Slovenia	5.321	5.000	2.484	642	0,47	189
54 I Nigeria	5.155	4.815	1.106	275	0,21	115
55 📗 Algeria	4.619	4.449	994	299	0,22	97
56 Morocco	4.123	3.659	1.204	321	0,29	117
57 💌 Viet Nam	3.519	3.347	1.442	371	0,41	133
58 🚃 Bulgaria	3.480	3.348	1.583	466	0,45	167
59 Bangladesh	3.360	3.214	1.095	271	0,33	124
60 United Arab Emirates	3.024	2.822	1.193	209	0,39	112
61 🚃 Lithuania	2.877	2.745	1.322	337	0,46	133
62 Estonia	2.562	2.447	2.014	401	0,79	162
63 🔳 Qatar	2.350	2.183	1.309	223	0,56	70
64 🖭 Jordan	2.307	2.195	752	151	0,33	102
65 🎟 Kenya	2.067	1.910	1.308	357	0,63	165
66 🗷 Lebanon	2.045	1.861	798	115	0,39	122
67 🔤 Kazakhstan	2.032	1.983	307	82	0,15	64
68 ECuba	1.892	1.779	435	91	0,23	115
69 <u></u> raq	1.810	1.706	573	132	0,32	51
70 Philippines	1.767	1.619	781	188	0,44	147
71 ELuxembourg	1.669	1.562	949	248	0,57	105
72 Cyprus	1.649	1.499	996	173	0,60	113
73 🔤 Venezuela	1.592	1.505	468	61	0,29	155
74 Belarus	1.591	1.554	642	138	0,40	122
75 <b>E</b> thiopia	1.552	1.490	640	128	0,41	88
76 Peru	1.508	1.356	991	170	0,66	140
77 = Latvia	1.380	1.337	511	136	0,37	104

## النشر العراقي العالمي: الواقع.. والطموح...

- الباحث العراقي مبدع
- و الباحث العراقي بأمكانه التغلب على الصعاب
- الباحث العراقي بامكانه ايجاد طرق لتذليل العقبات وحل المشاكل بطرق ابداعية
  - عدد الاكاديميين في العراق تقريبا • ٧ ٤
    - نسبة النشر العالمي ١:١٤





# تحبیب ملخصی کالمحالات

## ألاستشهاد Citation

demonstrations, translation of this research into the clinic has been limited (Jiang, Dosen, Müller, & Farina, 2012; Kuiken et al., 2014). This shortcoming may be because it is very difficult for the amputees to generate distinct activity patterns for different movement classes of hand or wrist movements. This will lead to overlap of the movement classes in the feature space which will in turn impair the classification. Advanced machine learning with induced artificial variability or, perhaps, with daily recalibration may improve the accuracy (Liu, Sheng, Zhang, He, & Zhu, 2016). However, because it is not clinically viable to emulate all possible variations, during prosthesis use, incorrect classifications will likely take place in response to EMG patterns that were not observed during training or recalibration.





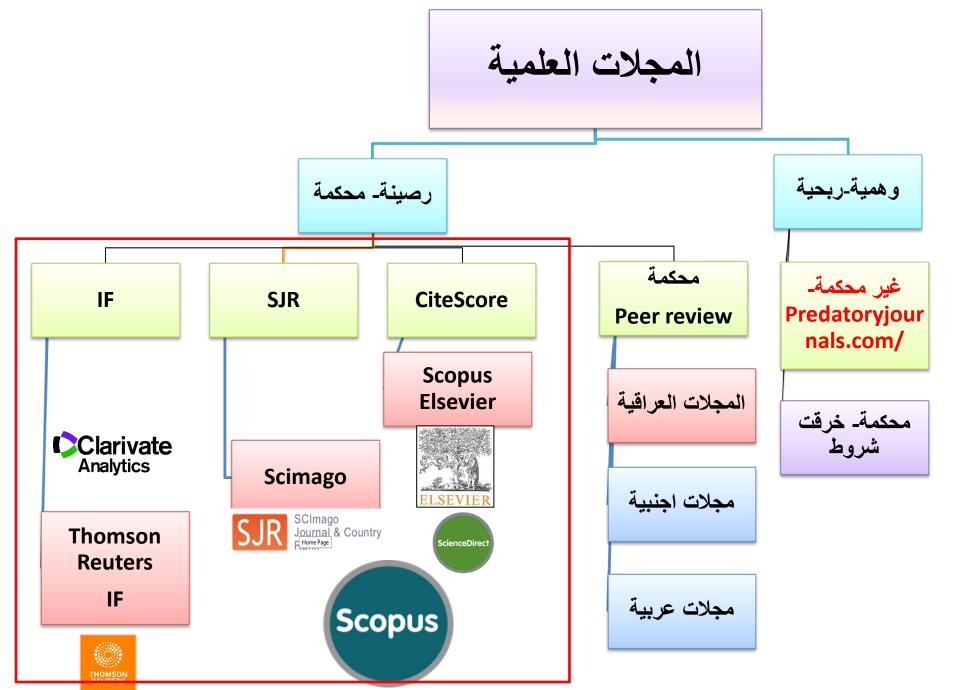




#### REFERENCES

Liu, J., Sheng, X., Zhang, D., He, J., & Zhu, X. (2016). Reduced daily recalibration of myoelectric prosthesis classifiers based on domain adaptation. *IEEE Journal of Biomedical and Health Informatics*, 20(1), 166–176. doi:10.1109/JBHI.2014. 2380454.

Liu, J., Zhang, D., Sheng, X., & Zhu, X. (2015). Enhanced robustness of myoelectric pattern recognition to across-day variation through invariant feature extraction. In 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'15), Milano, Italy (pp. 7262–7265).



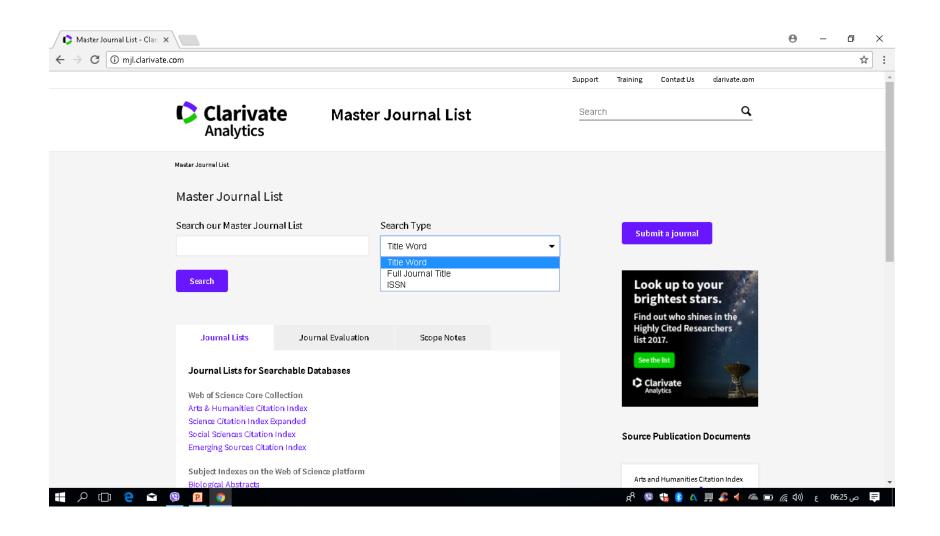
Demo

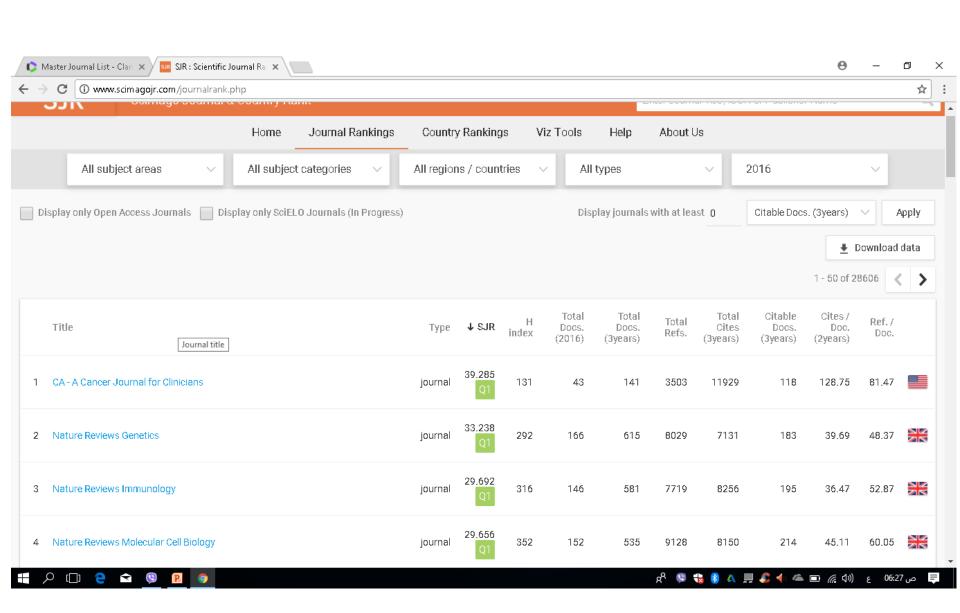
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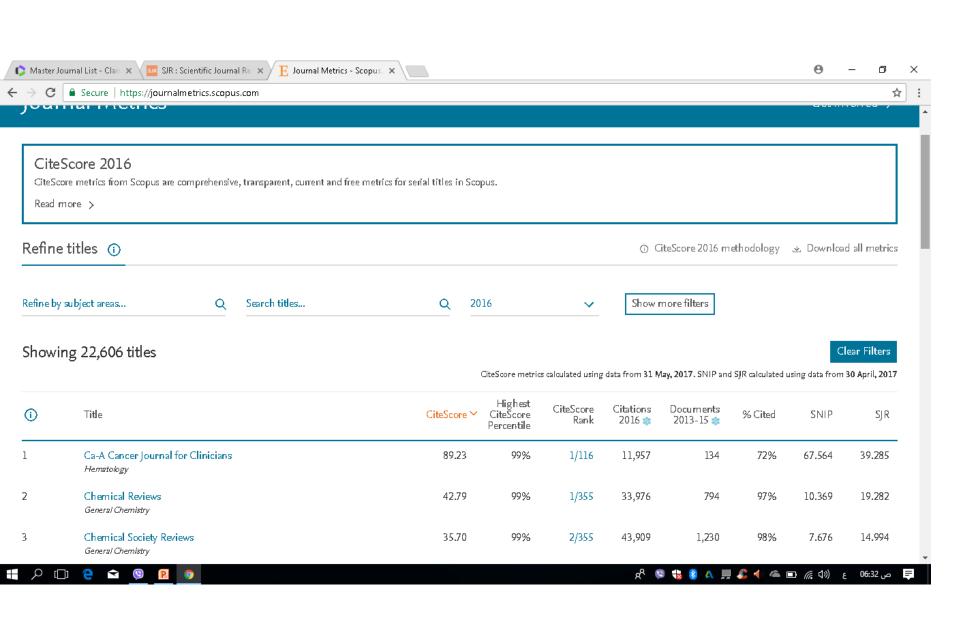
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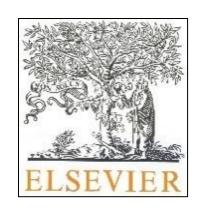
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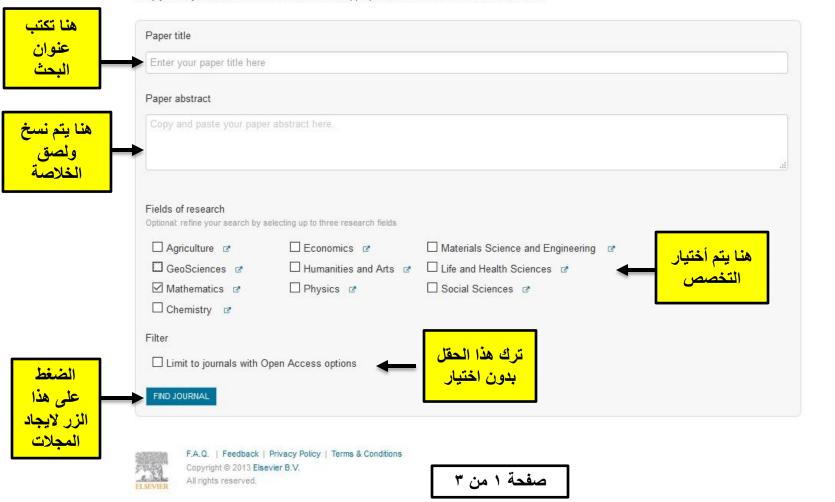


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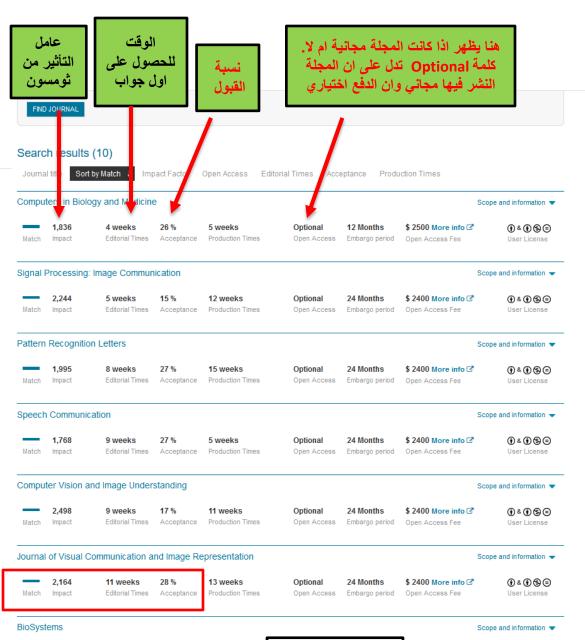
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#### هنا تظهر نتائج البحث



صفحة ٢ من ٣

## عند الدخول الى موقع اي مجلة نبحث عن

- 1. Scope of the journal
- 2. Where is the journal is indexed

- 3. Is it free or not
- 4. Author instructions or guidelines for author

١. نطاق المجلة

٢. رصانة المجلة

٣. النشر مجانى او لا

 ع. ملاحظات مهمة لكتابة البحث



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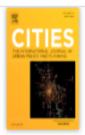
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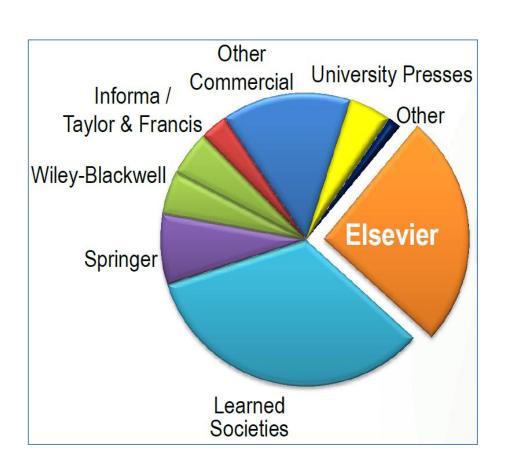
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## 1.2 million English language research articles published globally each year [3]

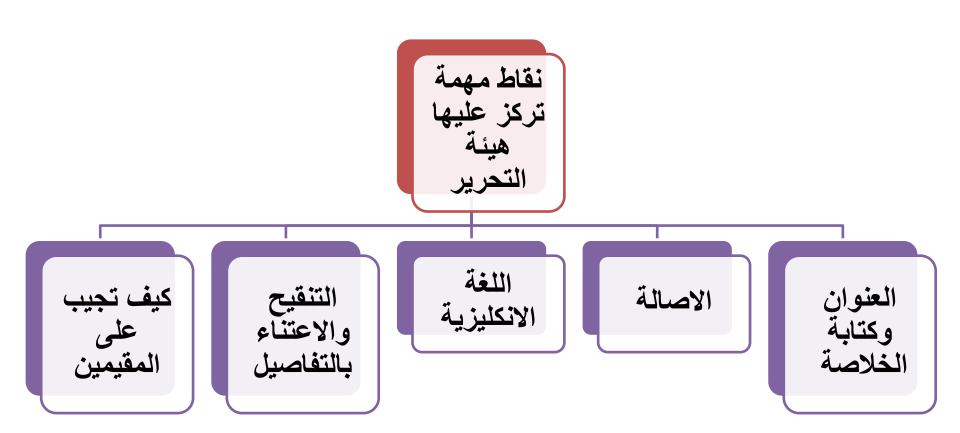


- ۲۰۰,۰۰۰ بحث يقدم كل سنة الى السيفير
  - 13000محرر
  - 557000 مقيم

• • 3-60% يتم رفضه

Source: Elsevier Publishing Campus, Publishing Campus

## اسباب رفض البحوث كثيرة



# Paper

## Structure

## مكونات البحث

- Title
- Abstract
- Keywords

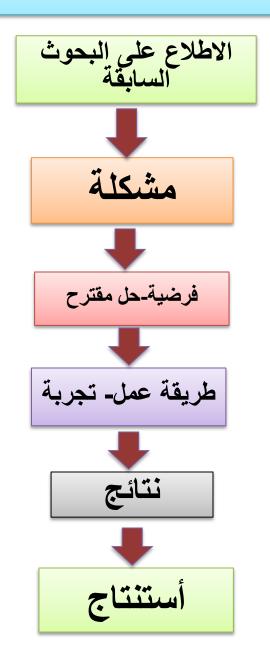
Main text (IMRAD)

- Introduction
- Methods
- Results

#### and

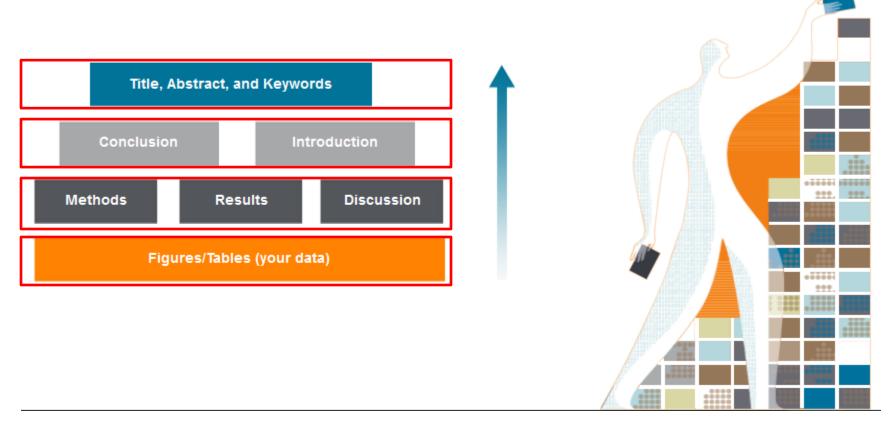
- Discussion
- Conclusions
- Acknowledgements
- References
- Supplementary Data

### Tell your research story



## تسلسل الكتابة

The process of writing – building the article



https://www.publishingcampus.elsevier.com/pages/288/How-towrite-an-abstract-and-improve-your-article.html كتابة العنوان والخلاصة مهمة جدا لان رئيس التحرير والمحرر الخبير يقوم بتقييم اولي للبحوث اعتمادا على الخلاصة

## لماذا الخلاصة مهمة جدا ؟

- تُقبل ام لا تُقبل من قبل المحرر والمقيم ورئيس التحرير
  - تُقرأ ام لا تُقرأ من قبل القراء
  - يُتشهد بها ام لا من قبل الباحثين

Abstract: Step by step

Check the 'Guide for Authors' Abstract length Purpose / Motivation Approach / Methodology

Findings / Conclusion

VALUE

# Good manuscript writing (precise, concise and rigorous)

## Save your editor and reviewers the trouble of guessing what you mean [3]

### Complaint from an editor:

"[This] paper fell well below my threshold. I refuse to spend time trying to understand what the author is trying to say. Besides, I really want to send a message that they can't submit garbage to us and expect us to fix it. My rule of thumb is that if there are more than 6 grammatical errors in the abstract, then I don't waste my time carefully reading the rest."

- Concise summary of article contents
- Logical structure and development

### **Example of a well-written abstract:**

For a signal-detection task, the Bayesian ideal observer is optimal among all observers because it incorporates all the statistical information about the raw data from an imaging system. The ideal-observer test statistic, the likelihood ratio, is difficult to compute when uncertainties are present in backgrounds and signals. In this work, we propose a new approximation technique to estimate the likelihood ratio. This technique is a dimensionality reduction scheme we will call the channelized ideal observer (CIO). We can reduce the high-dimensional integrals of the ideal observer to the low-dimensional integrals of the CIO by applying a set of channels to the image data. Lumpy backgrounds and circularly symmetric Gaussian signals are used for simulations studies. Laguerre-Gaussian (LG) channels have been shown to be useful for approximating ideal linear observers with these backgrounds and signals. For this reason, we choose to use LG channels for our analysis. The concept of efficient channels is introduced to closely approximate ideal observer performance with the CIO for signal-known-exactly (SKE) detection tasks. Our preliminary results using one to three LG channels show that the performance of the CIO is better than the channelized-Hotelling observer for the SKE detection tasks.

background

problem statement

proposed solution

results

S. Park et al., *Proc. SPIE* **5372**, pp. 12-21 (2004)

Source: Cristian A. Linte, a and Christopher J. James, EMBC 14, USA

### مثال - خلاصة

We investigate the problem of achieving robust control of hand prostheses by the Electromyogram (EMG) of transradial amputees in the presence of variable force levels, as these variations can have a substantial impact on the robustness of the control of the prostheses. We also propose a novel set of features that aim at reducing the impact of force level variations on the prosthesis controlled by amputees. These features characterize the EMG activity by means of the orientation between a set of spectral moments descriptors extracted from the EMG signal and a nonlinearly mapped version of it. At the same time, our feature extraction method processes the EMG signals directly from the time-domain to reduce computational cost. The performance of the proposed features is tested on EMG data collected from nine transradial amputees performing six classes of movements each with three force levels. Our results indicate that the proposed features can achieve significant reductions in classification error rates in comparison to other well-known feature extraction methods, achieving improvements of 6% to 8% in the average classification performance across all subjects and force levels, when training with all forces.

### خلاصة مهمة جدا

### Samar Almoossa

Umm Algura University, Makkah, Saudi Arabia

symossa@uqu.edu.sa

Are IELTS and CEFR Enough Indicator of Students Success in Academic Study?

### Bio data

Samar Almoossa received her Master of Art in Teaching English as a Foreign Language from the University of Essex and is pursing her Doctorate of Philosophy in Applied Linguistics at Newcastle University. She works as a lecturer at the English Language center in Umm Alqura University. She has published three books in Arabic and has received awards from King Abdulaziz University in 2007 and 2008. In 2013, Almoossa participated in the UK Linquistics Olympiad (UKLO) as a marker, and she has been involved in postgraduate staff-student committees at Newcastle University.

### Abstract



Language tests and the level achieved in the CEFR are considered to be the two main gatekeepers for international students who aim to study in an English-speaking university. However, gaining the required scores or passing from the A1 institutional level to the C1 level, instead of focusing on what they need to acquire for their academic study, has become the main aim for many students. Turner (2004, p.97) argues that "students seem to want to 'train' to reach the appropriate entrance level score or band rather than to engage with the language as an essential, and integral, part of the learning process of their subject of study."



The present study investigates students' perceptions of their experiences with language institutes, preparation for IELTS tests and how these two endeavors affected their academic study in UK universities. It also explores the relationship between the level these students achieved in the institutions according to the CEFR reference, the IELTS band score they attained and their academic performance. The study was based on a questionnaire that was distributed to 173 Saudi participants and on interviews undertaken with six of them.



The results revealed that participants' main concerns at every stage of their English language study was gaining the required score on the IELTS test, which led to giving



more attention to the test and not preparing for their academic studies. Also, it was revealed that some of the participants in the study finished the advanced level (C1) in the institutions, yet they could not achieve higher than a score of 5-5.5 on the IELTS tests, which indicates the (B2) level in the CEFR. This study suggests that Practitioners should take IELTS band scores and CEFR "can do" statements with caution so students will clearly understand that what they achieved in term of scores or levels is not an indication of their readiness for academic study.

### Introduction

- Explain your problem
- Support with new references
- Use Free journal alert services for free updates on new articles
- A high proportion of "lack of novelty" rejections are made after reading the abstract, introduction and conclusions.
- Give a clear motivation for the work.
- Explain why before explaining how.
- At the end of the introduction the reader knows the problem and maybe the solution you propose

### المقدمة

### مقدمة عامة عن الموضوع



### جمل افتتاحية



البحوث والادبيات السابقة



الفراغ في المعرفة Gap in the knowledge



ماذا سوف يعمل الباحث

### **Methodology**

- Is your work reproducible
- Your experimental results can be reproduced by others.
- Conditions of the experiment with photos if possible
- Previously published procedures need not be described in depth:
- Identify the equipment and materials used

Explain how you have done everything

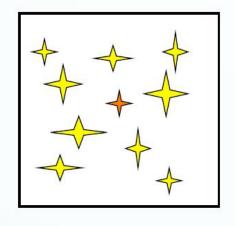
### Results

- •Findings/data of secondary importance should be captured in Supplementary Materials
- Minimal interpretation of results – no comp. literature unless - Results and Discussion
- Results of the statistical analysis
- –Figures and tables

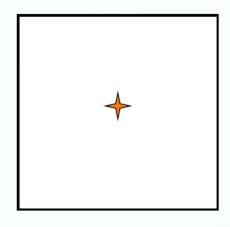
### **Discussion**

- •Critical interpretation of the results
- –Make the Discussion correspond to the Results
- –Make statements that are supported by your data.
- –Compare your results to published results
- Significance & Implications

### **FOCUS**



10 results

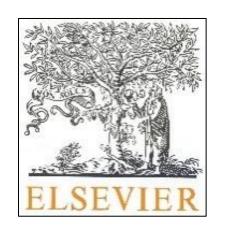


1 result

Too much information kills information

# يجب ان تكون معلومات المصدرتحتوي على كافة المعلومات ولكافة المصادر

C. Cipriani, C. Antfolk, M. Controzzi, G. Lundborg, B. Rosen, M. C. Carrozza, and F. Sebelius, "Online myoelectric control of a dexterous hand prosthesis by transradial amputees," *IEEE Trans. Neural Syst. Rehabil. Eng.*, vol. 19, no. 3, pp. 260–270, Jun. 2011.

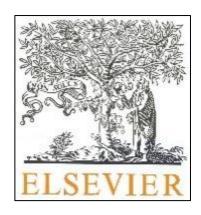


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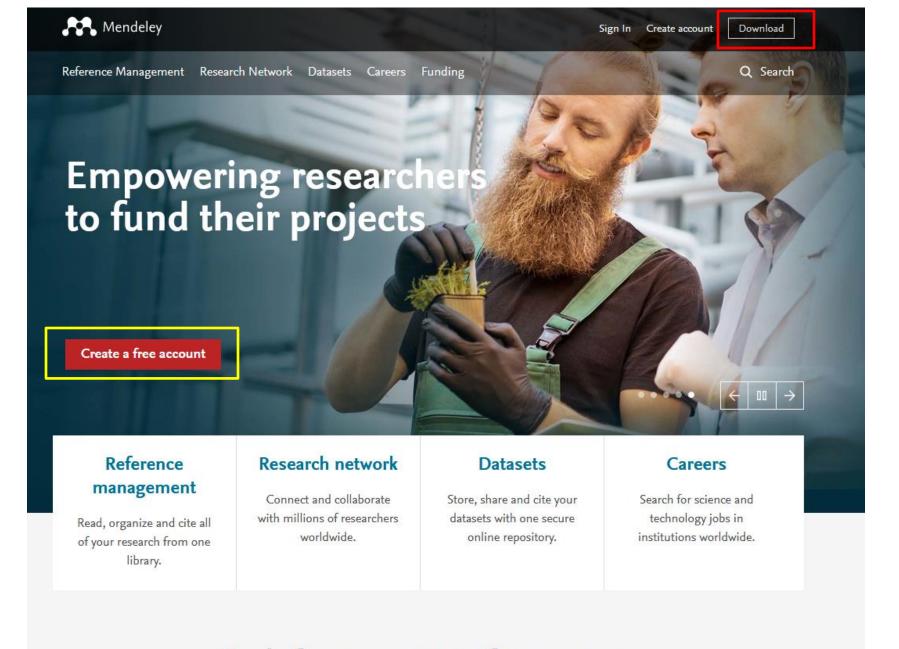








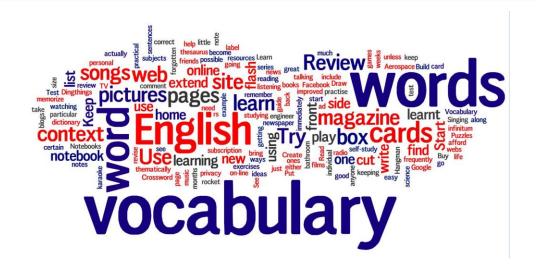




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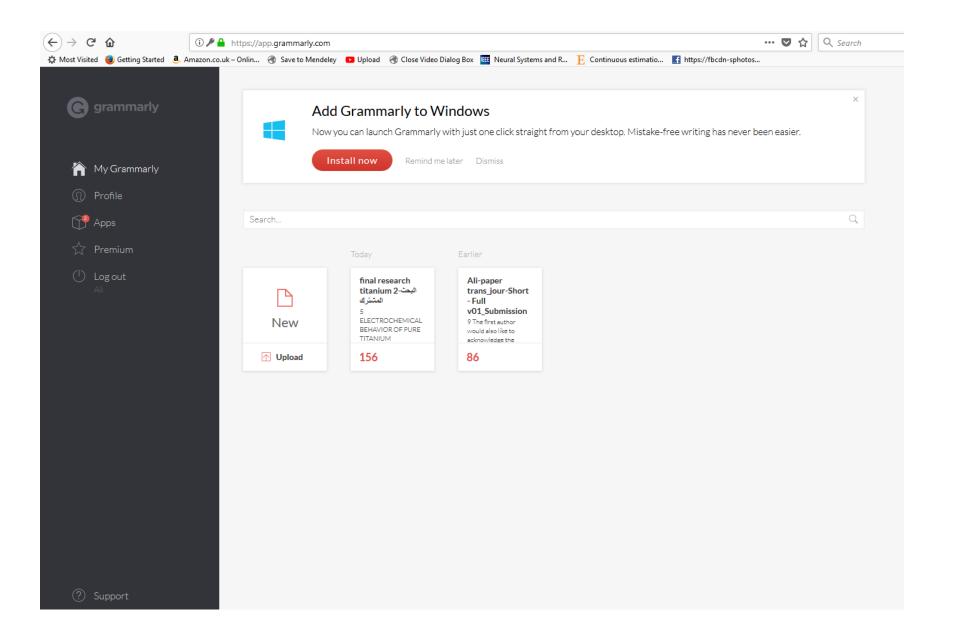
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### ٦- تسلسل المصادر



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٥\_ التنقيط

Brain Research Bulletin

A note on the probability distribution function of the surface electromyogram

Kianoush Nazarpour to 1, Ali H. Al-Timemy 1, 1, Guido Bugmann 1, Andrew Jackson 1

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### A note on the probability distribution function of the surface electromyogram

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# كيف تجيب على أسئلة المقيمين ؟

### **Example- Major revision decision letter**

Dear Dr. Al-Timemy:

Your manuscript, Improving the Practical Robustness against Force Variation of EMG Controlled Prostheses for Improved Amputees TNSRE-2014-00179, has been examined by a qualified editorial review board of IEEE Transactions on Neural Systems & Rehabilitation Engineering. The consensus opinion is that your work has significant merit, but that major revisions are necessary before the manuscript can be accepted for publication. Further review may be necessary before the final decision can be made.

Please complete your revision by 03-Dec-2014.

The summary comments of the Associate Editor and reviewers are listed below. Please respond to each comment, and address these points in the revision of your manuscript. Electronically submit your responses, and resubmit your manuscript, by following the instruction in the Author Center of Manuscript Central: http://embs-ieee.manuscriptcentral.com/

Once you have uploaded your revised manuscript, the associate editor will lead its review.

If you have any questions, please look up the journal website: http://tnsre.bme.columbia.edu or contact me at the email below. Thank you for your continued interest in IEEE Transactions. We look forward to receiving your revised manuscript.

Paul Saida Editor-in-Chief

email: editortnsre@gmail.com http://tnsre.bme.columbia.edu

### 1. Associate Editor's Comments:

Associate Editor: Kumar, Dinesh

(There are no comments. Please check to see if comments were included as a file attachment with this e-mail or as an attachment in your Author Center.)

### Reviewer's Comments:

### 2. Reviewer: 1

The manuscript "Improving the Practical Robustness against Force Variation of EMG Controlled Prostheses for Transradial Amputees" presented a nicely designed and well executed study in improving pattern recognition based mycelectric control algorithms when

While the topic of the manuscript is of key importance for the current development of the relevant literature in myoelectric control and advanced prosthetic design, the following issues need to be addressed before the manuscript is suitable for publication:

1, the robustness myoelectric processing algorithm against force variation has been discussed intensively in the literature recently. The reviewer would like to bring the helow maner to the authors attention:

He, et al., "Invariant Surface EMG Feature Against Varying Contraction Level for Mycelectric Control Based on Muscle Coordination", IEEE J-BHI, 2014 (DOI: 10.1109/JBHI.2014.2330356).

This paper is on exactly the same topic as the current manuscript. In this reviewer's view, it proposed a simple, but very elegant and efficient approach in feature extraction. Compared to the feature extraction proposed in the current manuscript, it is computationally less demanding, and it is really robust against force level changes as it does not require training on multiple level (not sensitive to force changes).

The authors should carefully discuss the differences and advantage/disadvantage of the proposed method with this recently published method.

they didn't do it for the amputees, it is difficult to know if their result is repridcable for amoutte, also we need to test it. Also our results is better than them.

2, a 'true' robustness algorithm should be insensitive to the non-stationary factor (force changes here). However, the proposed algorithm still need to be trained with data from multiple force levels to get acceptable performance (~10% error rate). This approach, as used by many other similar studies, is not necessarily robust, it is still sensitive to the non-stationary factor in question. And it is unrealistic to include all the potential conditions of the non-stationary factor, which make the approach not practical. As such, 'robustness' in the title of the current manuscript is indeed misleading. One can state 'improving performance .... against force variation...', but not stating the algorithm or approach is 'robust'.

3, since force variation is the key component of the study, the reviewer is surprised that the authors failed to take a more elaborate approach on force levels in the experimental design. No clear quantified information, in any form, was recorded by the experimenter and provided to subjects during experiment. How did the authors make sure the force level produced by the subjects were really what they should be?

It was done visually but no quantitive mesure was used, we acknowleded this in thelimations of the manuscript

4, the statistical treatment was <u>not clear</u>. There should be a sub-section in the Methods section, detailing the statistical tests used. The test type, hypothesis, factors, levels of factors, and response variables, etc.

5, Method "E" training size is not a relevant to the title and the focus of the manuscript. The reviewer strongly suggest remove this part completely, as it is distracting from the main thrust of the manuscript.

### Minor points:

1. Algorithm should be a sub-section of the "Methods" section, not a separate one.

2. The format of the references (some of them at least) is not consistent and not consistent w.r.t. the IEEE style. The authors should check these inconsistencies after the reference list is generated by automated tools.

Page 2

### 3. Reviewer: 2

Authors have reported study on improving robustness against force variation of EMG for

corrected

### Introduction:

1.How is this version of spectral moments improved and how is this significant in terms of the physiology or force?

2. Last paragraph in Page 4 is not necessary as this paper is too lengthy.

3. What do authors mean by low computational cost. Please explain. Is this study tested

### Proposed features:

1. What does these features measure in terms of signal properties. for ex RMS measure the strength of muscle contraction

2. Please specify the significant improvement from the previous technique (Which one? the SM V1 or other TD tech.) and how is this affected with force as factor

1.<u>Please</u> reduce the size of the paper mentioning the effect of force on the robustness and how they have improved in their feature and how it is significant for amputees.

2.It is difficult to understand what improvement has been done from the previous technique. (Which one? the SM V1 or other TD tech.)

3. Please discuss (In the discussion???) based on the results the how the feature has

4. Please discuss (In the discussion???) the reduction in the computational cost due to

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### مثال رسالة جواب لمقيمين

### Do the reply in a separate word file, point by point

### Editor in Chief's and Reviewers' Comments and Authors' Responses

"Improving the Performance against Force Variation of EMG Controlled Multifunctional Upper-Limb Prostheses for <u>Transradial</u> Amputees"

Ali H. Al-Timemy, Rami N. Khushaba, Guido Bugmann and Javier Escudero,

### Ref. number: TNSRF-2014-00179

### 1. Editor in Chief's Comment and Authors' Response:

### 1.1 Editor in Chief's Comments

Your manuscript, Improving the Practical Robustness against Force Variation of EMG Controlled Prostheses for Leanstadial Amputees TNSRE-2014-00179, has been examined by a qualified editorial review board of IEEE Transactions on Neural Systems & Rehabilitation Engineering. The consensus opinion is that your work has significant merit, but that major revisions are necessary before the manuscript can be accepted for publication. Further review may be necessary before the final decision can be made.

Please complete your revision by 03-Dec-2014.

The summary comments of the Associate Editor and reviewers are listed below. Please respond to each comment, and address these points in the revision of your manuscript. Electronically submit your responses, and resubmit your manuscript, by following the instruction in the Author Center of Manuscript Central:

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Once you have uploaded your revised manuscript, the associate editor will lead its review.

If you have any questions, please look up the journal website: http://tnsne.bms.columbia.edu or contact me at the email below. Thank you for your continued interest in IEEE Transactions. We look forward to receiving your revised manuscript.

### 1.1 Authors' response

We would like to thank the Editor in Chief for his letter, the Associate Editor for handling the review process of our manuscript and the two Reviewers for their feedback and suggestions. We have revised the manuscript and we have addressed all their comments and concerns, which have enabled us to improve our study significantly. Major changes included in this revision are:

- · Comparison with recent paper addressing similar challenges,
- · Clarification of our experimental approach,
- · Improved description of our novel feature set,
- Thorough revision of the text for conciseness.
- · Removal of subsection dealing with the effect of training size

We believe that the revised manuscript is a contribution of interest to the readership of IEEE Transactions on Neural Systems and Rehabilitation Engineering and to the research community working on mycelectic control. It is our hope that the changes and additions made to the manuscript, together with the detailed responses and clarifications provided to the Reviewers, will address your concerns. For your convenience we have included our responses to each of the Reviewers' comments below.

### 2. Reviewer 1's Comments and Authors' Responses:

### Comment of Reviewer 1

The manuscript "Improving the Practical Robustness against Force Variation of EMG Controlled Prostheses for <u>Tansgadial</u> Amputees" presented a nicely designed and well executed study in improving pattern recognition based <u>myoelectric</u> control algorithms when contraction level varies.

While the topic of the manuscript is of key importance for the current development of the relevant literature in <u>myockettic</u> control and advanced prosthetic design, the following issues need to be addressed before the manuscript is suitable for publication:

### Authors' Response

We thank the reviewer for the appreciation of our work. We also appreciate the Reviewer's detailed feedback, which has enabled us to improve the manuscript. Detailed responses to your comments are included below.

### Comment of Reviewer 1

2.1 The robustness <u>myoelectric</u> processing algorithm against force variation has been discussed intensively in the literature recently. The reviewer would like to bring the below paper to the authors extensive.

He, et al., "Invariant Surface EMG Feature Against Varying Contraction Level for Mycelectric Control Based on Muscle Coordination", IEEE J-BHI, 2014 (DOI: 10.1109/JBHI.2014.2330356).

This paper is on exactly the same topic as the current manuscript. In this reviewer's view, it proposed a simple, but very elegant and efficient approach in feature extraction. Compared to the feature extraction proposed in the current manuscript, it is computationally less demanding, and it is really robust against force level changes as it does not require training on multiple level (not sensitive to force changes).

The authors should carefully discuss the differences and advantage/disadvantage of the proposed method with this recently published method.

### 2.1 Authors' Response

We thank the reviewer for pointing out the relevant new reference which was published 2 days after we submitted our manuscript to IEEE TNSRE. We included the new reference with a paragraph in the Throduction's section of the revised manuscript which reads

### Quoted from Page 3, 3rd paragraph

"Recently, a feature extraction method based on discrete Fourier transform and muscle coordination was proposed by He et al. [29] and applied to EMG data collected from intact-limbed subjects who performed nine movements with three different force levels. The classification accuracy was increased by approximately 11% when using the proposed features compared to the TD feature set. However, a specific sensor-placement configuration, by which the EMG electrodes were attached on pre-specified forearm muscles, was reported as vital for the algorithm to perform well. This configuration is limited by the difficulty to place the electrodes on the deformed amputee stump, which may make it difficult to reproduce their results with the transradial amputees."

We also agree with the reviewer that the feature extraction based on Discrete Fourier Transform (DFT) method proposed in (He et al. 2014) is simple and efficient. However, the DFT features were only tested on intact-limbed subjects and, therefore, the generalization of the performance across transradial amputees cannot be assumed here. Following the Reviewer's suggestion, we have carried out two

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# Tim Hunt (Nobel prize winner) البروفسور تم هنت

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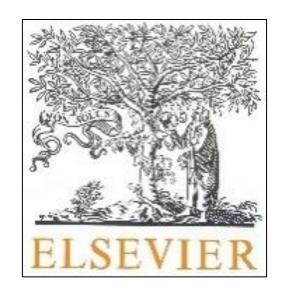
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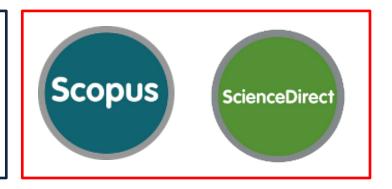
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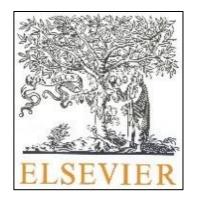
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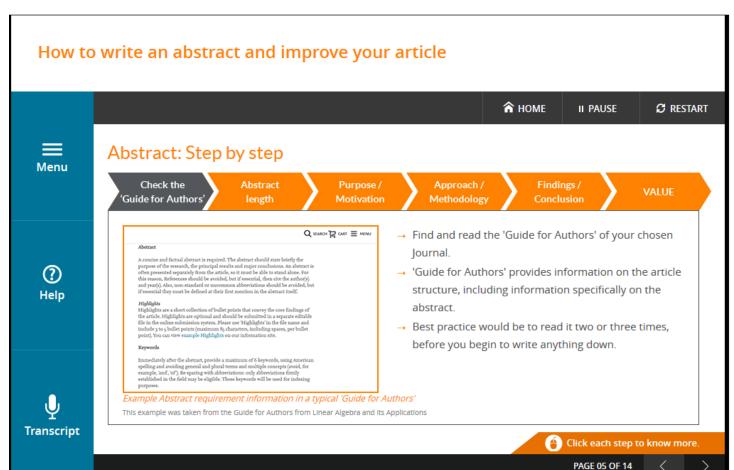
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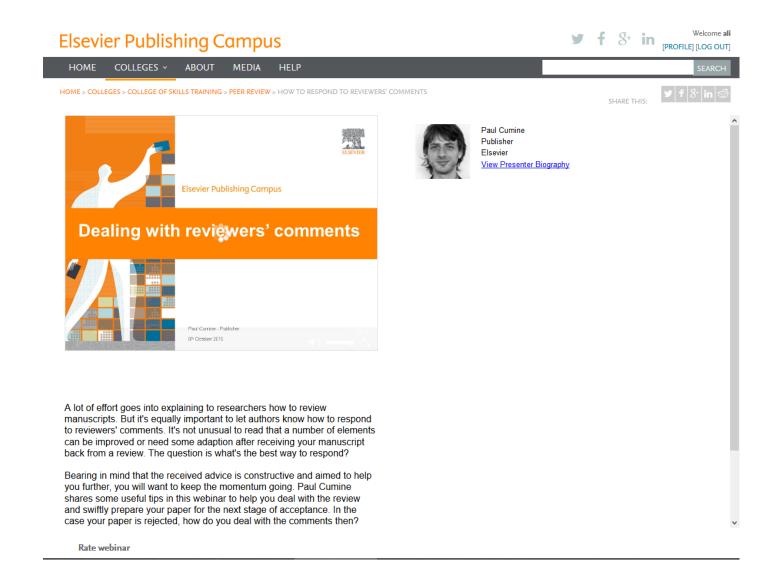


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