

Abstract Writing

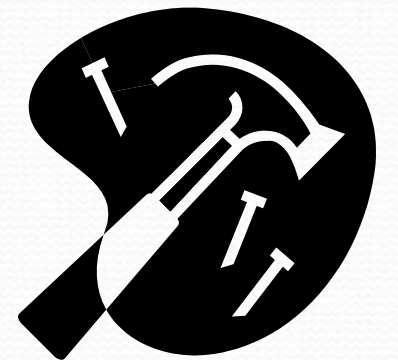
Way

Definition

- “Abstract writing is a highly specialized form of academic writing. It requires a clear and concise writing style that conveys complicated information in a limited amount of space. Abstracts reach a more broad audience than almost any other form of academic writing.”

Principles

- concise yet complete
- comprehensive yet corresponding



Types

- **Conference abstracts:**
- **Journal Paper abstracts:**

Types

- **Conference abstracts:**
 - Write as though you were done
 - ✓ the **promissory** abstract
 - ✓ Use only the space needed, not given
(e.g., no more than 300 words)

Types

- **Journal abstracts:**
 - Conventional
 - Results-driven
 - Sequencing

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Framework

- 1) **Motivation**
- 2) **Methodology**
- 3) **Results / Findings**
- 4) **Implications / Contributions**
- 5) **Keywords**

Concerns

- Does the abstract capture the interest of **a potential reader**?
- Does the abstract clarify **the research questions**?
- Does the abstract indicate **the methodology**?
- Does the abstract give **a concise summary of the findings**?
- Does the abstract propose **the implications** for future research?
- Does the abstract list 5-7 **keywords** that represent the framework?

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Rationale for Keywords

- Importance: to highlight research **relevancy**
- Categories: (I) to explain terms with **density**
(II) to indicate terms for **search index**
- Rules:
 - I. Normally, **phrases** are more preferable than **single words**.
 - II. Usually, collocation with “**of,**” “**the,**” “**and**” ... is discouraged.

e.g. information; security; reconstruction of terminology; social needs with economic growth; investing in passive energy →

information security; terminology reconstruction; social needs; economic growth; passive energy investment

Improving the writing skills of college students

RONALD T. KELLOGG AND BASCOM A. RAULERSON III

Saint Louis University, St. Louis, Missouri

Advanced writing skills are an important aspect of academic performance as well as of subsequent work-related performance. However, American students rarely attain advanced scores on assessments of writing skills (National Assessment of Educational Progress, 2002). In order to achieve higher levels of writing performance, the working memory demands of writing processes should be reduced so that executive attention is free to coordinate interactions among them. This can in theory be achieved through deliberate practice that trains writers to develop executive control through repeated opportunities to write and through timely and relevant feedback. Automated essay scoring software may offer a way to alleviate the intensive grading demands placed on instructors and, thereby, substantially increase the amount of writing practice that students receive.

Keywords: American students; writing performance; working memory; automatic scoring

Note: Avoid repeating the same words in both the title and keywords.

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Abstract

We exploit the changes in the distribution of family income to estimate the effect of parental resources on college education. Our strategy exploits the fact that families at the bottom of the income distribution were much poorer in the 1990s than they were in the 1970s, while the opposite is true for families in the top quartile of the distribution. Our estimates suggest large effects of family income on enrollments. For example, we find that a 10 percent increase in family income is associated with a 1.4 percent increase in the probability of attending a four-year college. © 2001 Elsevier Science B.V. All rights reserved.

JEL

Keywords: Credit constraints; Education; Human capital; Intergenerational mobility; Parental investment

Abstract

We exploit the changes in the distribution of family income to estimate the effect of parental resources on college education. Our strategy exploits the fact that families at the bottom of the income distribution were much poorer in the 1990s than they were in the 1970s, while the opposite is true for families in the top quartile of the distribution. Our estimates suggest large effects of family income on enrollments. For example, we find that a 10 percent increase in family income is associated with a 1.4 percent increase in the probability of attending a four-year college. © 2001 Elsevier Science B.V. All rights reserved.

announcement of major findings

JEL

Keywords: Credit constraints; Education; Human capital; Intergenerational mobility; Parental investment

Notes on Abstract Writing

- **Length:**

- no more than 300 words, single page

- **Paragraphing:**

- generally a single paragraph, except for degree papers

- **Verb tenses:**

- present / past / present perfect

- **Terminology:**

- use jargon sparingly and avoid abbreviations

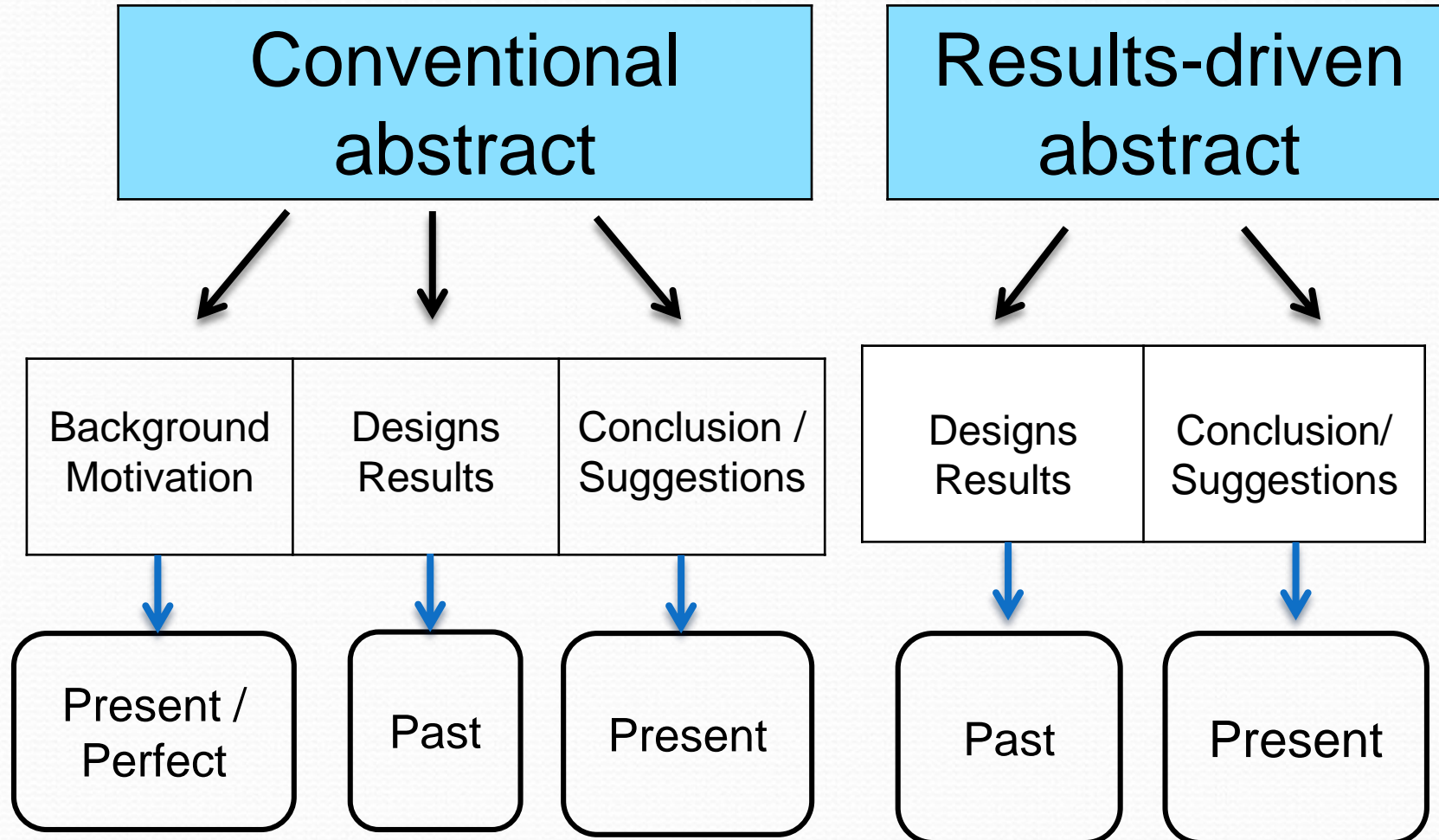
- **Literature review:**

- cite, at most, one influential figure

Types

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Verb Tenses in the Abstract



Occasions for Results-driven Abstract

- **Recommended** when ...
 1. remarkable results found
 2. unique method(s) adopted
 3. effective model(s) designed

Example of Conventional Abstract

Although sentence connectors **are** a well-organized feature of academic writing, little research **has been undertaken** on their positioning. In this study, we **analyze** the position of 467 connectors found in a sample of 12 research papers. Seventy-five percent of the connectors **occurred** at the beginning of sentences. However, individual connectors **varied** greatly in positional preference. Some, such as *in addition*, only **occurred** initially; others, such as *therefore*, occurred initially in only 40% of the cases. These preliminary findings **suggest** that general rules for connector position **will prove elusive**.

Example of Results-driven Abstract

A count of sentence connectors in 12 academic papers **produced** 70 different connectors. These varied in frequency from 62 tokens to single occurrences. Seventy-five percent of the 467 examples **appeared** in sentence-initial position. However, individual connectors **varied** considerably in position preference. Some (e.g., *in addition*) always **occurred** initially; in other cases (e.g., *for example, therefore*), they **were** placed after the subject more than 50% of the time. These findings **suggest** that a search for general rules for connector position **may not be fruitful**.

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Sequencing Abstract

- ◆ Listing of valuable findings ...

- Clear-cut

- Weak linkage



Example of Sequencing Abstract

Significant data uncovered in this dissertation includes: (1) Matthew and Luke utilize *chiasmus* on a regular basis, while the Q passages contain very few; (2) Matthew employs *inclusio* frequently while Luke and Q do not employ this rhetorical device as regularly; (3) The opening words of Q's pericope do not agree in the parallel passages, but frequently agree within each pericope; (4) Matthew, Luke, and Q exhibit semantic and thematic unity in sections larger than individual pericope; (5) Matthew and Luke indicate peaking within discourses and pericope in a more extensive fashion than Q, but Q does utilize peaking.

Example of Sequencing Abstract

How is it that the U.S. Supreme Court is capable of getting most citizens to accept rulings with which they disagree? This analysis addresses the role of the symbols of judicial authority and legitimacy—the robe, the gavel, the cathedral-like court building—in contributing to this willingness of ordinary people to acquiesce to disagreeable court decisions. Using an experimental design and a nationally representative sample, we show that exposure to judicial symbols (1) strengthens the link between institutional support and acquiescence among those with relatively low prior awareness of the Supreme Court, (2) has differing effects depending upon levels of preexisting institutional support, and (3) severs the link between disappointment with a disagreeable Court decision and willingness to challenge the ruling. Since symbols influence citizens in ways that reinforce the legitimacy of courts, the connection between institutional attitudes and acquiescence posited by Legitimacy Theory is both supported and explained.

Any Other Types of Abstract Writing?

- Interdisciplinary Differences:
 - a. The varying degrees of importance**
 - b. The varying types of presentation**

Abstract with a Formula & Literature Review

Annals of Mathematics **179** (2014), 1121–1174
<http://dx.doi.org/10.4007/annals.2014.179.3.7>

Bounded gaps between primes

By YITANG ZHANG

Abstract

It is proved that

$$\liminf_{n \rightarrow \infty} (p_{n+1} - p_n) < 7 \times 10^7,$$

where p_n is the n -th prime.

Our method is a refinement of the recent work of Goldston, Pintz and Yıldırım on the small gaps between consecutive primes. A major ingredient of the proof is a stronger version of the Bombieri-Vinogradov theorem that is applicable when the moduli are free from large prime divisors only, but it is adequate for our purpose.

Structured Abstract

Abstract

Background: Coral reefs are hotspots of biodiversity, yet processes of diversification in these ecosystems are poorly understood. The environmental heterogeneity of coral reef environments could be an important contributor to diversification, however, evidence supporting ecological speciation in corals is sparse. Here, we present data from a widespread coral species that reveals a strong association of host and symbiont lineages with specific habitats, consistent with distinct, sympatric gene pools that are maintained through ecologically-based selection.

Methodology/Principal Findings: Populations of a common brooding coral, *Seriatopora hystrix*, were sampled from three adjacent reef habitats (spanning a ~30 m depth range) at three locations on the Great Barrier Reef (n=336). The populations were assessed for genetic structure using a combination of mitochondrial (putative control region) and nuclear (three microsatellites) markers for the coral host, and the ITS2 region of the ribosomal DNA for the algal symbionts (*Symbiodinium*). Our results show concordant genetic partitioning of both the coral host and its symbionts across the different habitats, independent of sampling location.

Conclusions/Significance: This study demonstrates that coral populations and their associated symbionts can be highly structured across habitats on a single reef. Coral populations from adjacent habitats were found to be genetically isolated from each other, whereas genetic similarity was maintained across similar habitat types at different locations. The most parsimonious explanation for the observed genetic partitioning across habitats is that adaptation to the local environment has caused ecological divergence of distinct genetic groups within *S. hystrix*.

Structured Abstract

Advanced da Vinci surgical system simulator for surgeon training and operation planning

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F. Van Meer
J. Schmid
Y. Bailly
A. A. Thakre
C. K. Yeung

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Wales Hospital, Chinese University
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Abstract

Background Although patients benefit considerably from minimally invasive surgery, the use of new instruments such as robotic systems is challenging for surgeons, and extensive training is required.

Method We developed a computer-based simulator of the da Vinci Surgical System, modelling the robot and designing a new interface.

Results The simulator offers users a two-handed interface to control a realistic model of the da Vinci robot. The simulator can be applied (i) to provide an environment in which to practice simple surgical skills and (ii) to serve as a visualization platform on which to validate port placement and robot pose for operation planning.

Conclusions Virtual reality is a useful technique for medical training. The simulator is currently in its early stages, but this preliminary work is promising. Copyright © 2007 John Wiley & Sons, Ltd.

Keywords minimally invasive surgery; robot modelling; robot-assisted surgery; simulator; surgeon training

Introduction

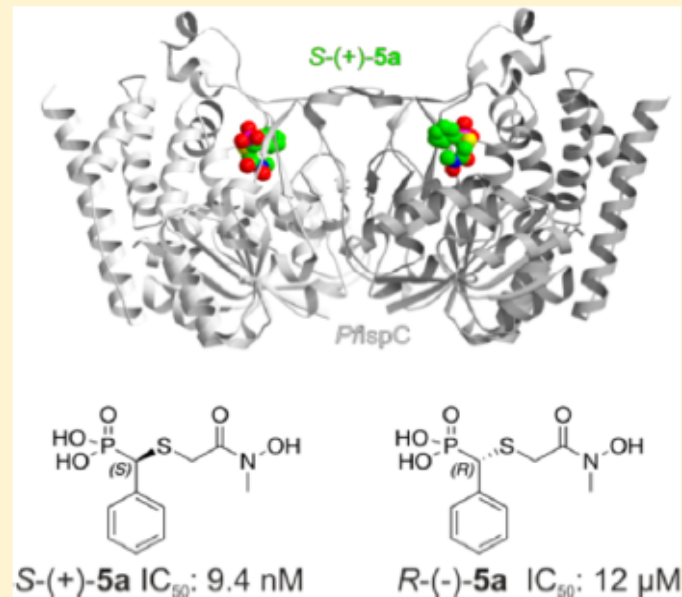


Graphical Abstract: Use color—be bold—draw attention to your research. Do not simply use a figure from your paper as the graphical abstract. Many readers decide whether or not to open the PDF of your paper and read it based on the graphical abstract; therefore, ensure that your article is one of the most read by creating a stellar graphical abstract.



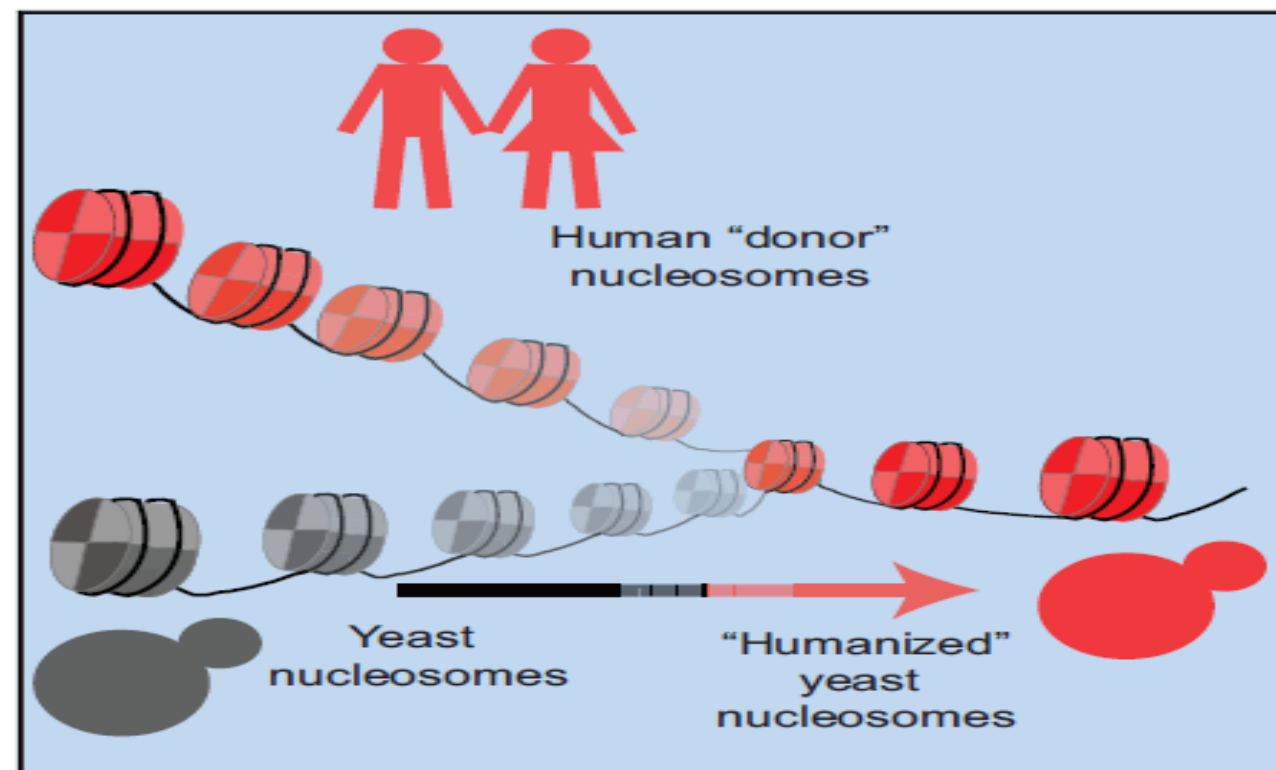
This publication has no figures.

ABSTRACT: The emergence and spread of multidrug-resistant pathogens are widely believed to endanger human health. New drug targets and lead compounds exempt from cross-resistance with existing drugs are urgently needed. We report on the synthesis and properties of “reverse” thia analogs of fosmidomycin, which inhibit the first committed enzyme of a metabolic pathway that is essential for the causative agents of tuberculosis and malaria but is absent in the human host. Notably, IspC displays a high level of enantioselectivity for an α -substituted fosmidomycin derivative.



Resetting the Yeast Epigenome with Human Nucleosomes

Graphical Abstract



Authors

David M. Truong, Jef D. Boeke

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In Brief

Yeast can survive with human histones, providing insight into the regulation of nucleosome positioning and remodeling.

Highlights

- At most, 1 in 10^7 yeast survive with fully human nucleosomes, but they rapidly evolve
- Nucleosome positioning and nucleosome repeat length are not influenced by histone type
- Human nucleosomes reduce RNA, delay environmental adaptation, and remodel slowly

Colons in Research Paper Titles

- **pre-colon: post-colon**

- **Problem: Solution**

- Reducing Air Pollution in Urban Areas: The Role of Urban Planners

- **General: Specific**

- Arguing for 'Facts' in Legal Science: A Study of Exhibits Verification in Court

- **Topic: Method**

- Selling Cities: Promoting New Images for Meeting Tourism

- **Major: Minor**

- Investigation of Racial Discrimination: A Case Study in Britain

The Value of Research Title

“When writing manuscripts, too many scholars neglect the research title. This phrase, along with the abstract, is what people will mostly see and read online. Title research of publications shows that the research paper title does matter a lot. Both bibliometrics and altmetrics tracking of citations are now, for better or worse, used to gauge a paper’s ‘success’ for its author(s) and the journal publishing it. Interesting research topics coupled with good or clever yet accurate research titles can draw more attention to your work from peers and the public alike.”

The Value of Research Title

34

Journal of
Medicinal Chemistry

Simplifying Submission Requirements for the *Journal of Medicinal Chemistry*

Titles: At one point in *JMC* history, the IUPAC name of a leading compound or the general scaffold was required in the title. Slowly, the use of IUPAC nomenclature in titles has diminished, and we would strongly prefer authors not to use IUPAC names of compounds in the title of their *JMC* article. Please use a descriptive, catchy title that draws readers to your paper! This will lead to more of your colleagues reading and citing your manuscript.



This publication has

The Value of Research Title

35

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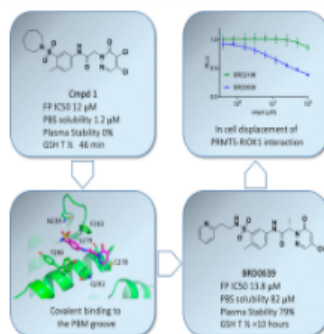
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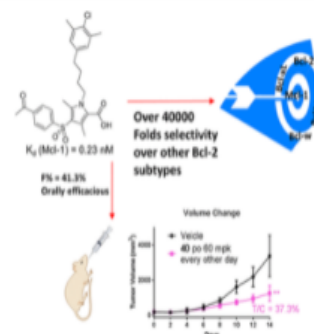
Publications



Discovery of a First-in-Class Inhibitor of the PRMT5–Substrate Adaptor Interaction

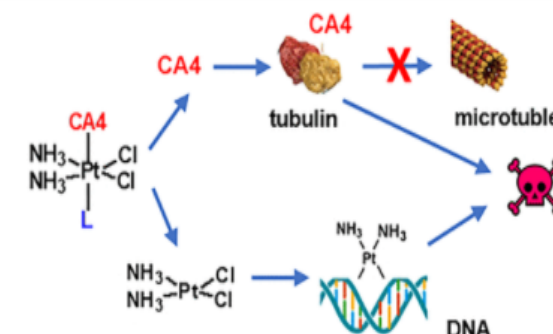
David C. McKinney, ... and Alessandra Ianari*

August 3, 2021



Discovery of 3,5-Dimethyl-4-Sulfonyl-1H-Pyrrole-Based Myeloid Cell Leukemia 1 Inhibitors with High Affinity, Selectivity, and Oral Bioavailability

Peng-Ju Zhu, ... and Zheng-Yu Jiang*



Are Pt(IV) Prodrugs That Release Combretastatin A4 True Multi-action Prodrugs?

Claudia Schmidt, ... and Dan Gibson*

August 3, 2021

Eye-Opening Title

“Crocodile Tears: Facial, Verbal and Body Language Behaviours Associated With Genuine and Fabricated Remorse.”

Law and Human Behavior, 2012

“Malarial parasites vs. antimalarials: never-ending rumble in the jungle.”

Current Molecular Medicine, 2009

“Deepdive: Using AI, Machine Learning, and Virtual Reality to Explore Ancient Submerged Civilizations”

International Conference on Artificial Intelligence for Industries, 2020



Current Opinion in Microbiology

Volume 52, December 2019, Pages 55-63



Fantastic yeasts and where to find them: the hidden diversity of dimorphic fungal pathogens

Marley C Caballero Van Dyke¹, Marcus M Teixeira^{1, 2}, Bridget M Barker¹



All Content

Images

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American Economic Journal: Applied Econo... / Vol. 8, No. 1, January 2016 / Star Wars: The Empirics Strike Back

JOURNAL ARTICLE

Star Wars: The Empirics Strike Back

Abel Brodeur, Mathias Lé, Marc Sangnier, Yanos Zylberberg

American Economic Journal: Applied Economics, Vol. 8, No. 1 (January 2016), pp. 1-32 (32 pages)

<https://www.jstor.org/stable/24739069>

Journals & Magazines > IEEE Transactions on Image Pr... > Volume: 28 Issue: 12

Mirror, Mirror, on the Wall, Who's Got the Clearest Image of Them All?—A Tailored Approach to Single Image Reflection Removal

Publisher: IEEE

Cite This

PDF

Daniel Heydecker ; Georg Maierhofer ; Angelica I. Aviles-Rivero ; Qingnan Fan ; Dongdong Chen ; Carola-Bibiane Schönlieb ; ... [All Authors](#)

2
Paper
Citations

543
Full
Text Views



Abstract

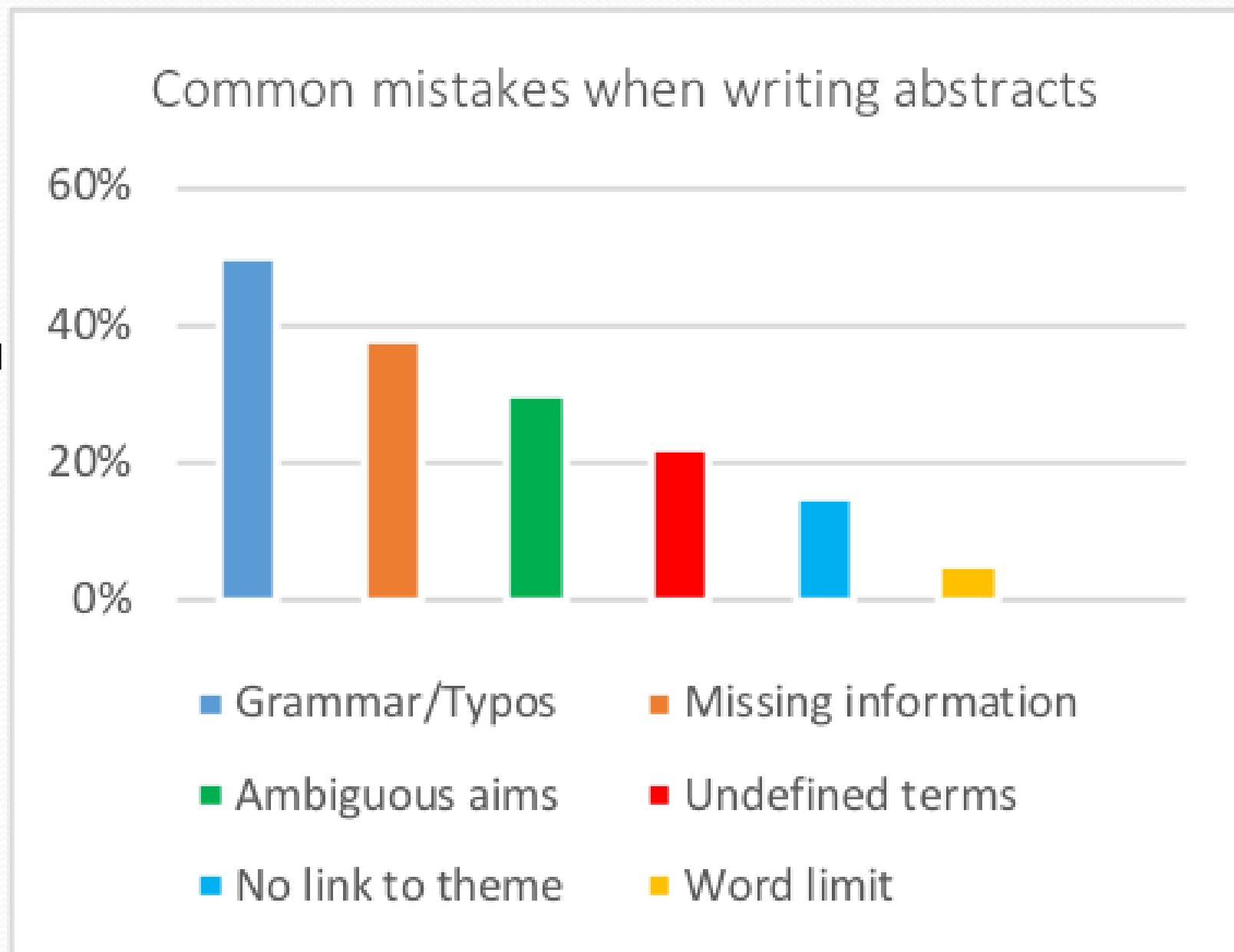
Document Sections

- I. Introduction
- II. Related Work
- III. Proposed Method
- IV. Experimental Results
- V. Conclusion

Abstract:

Removing reflection artefacts from a single image is a problem of both theoretical and practical interest, which still presents challenges because of the massively ill-posed nature of the problem. In this paper, we propose a technique based on a novel optimization problem. First, we introduce a simple user interaction scheme, which helps minimize information loss in the reflection-free regions. Second, we introduce an H^2 fidelity term, which preserves fine detail while enforcing the global color similarity. We show that this combination allows us to mitigate the shortcomings in structure and color preservation, which presents some of the most prominent drawbacks in the existing methods for reflection removal. We demonstrate, through numerical and visual experiments, that our method is able to outperform the state-of-the-art model-based methods and compete with recent deep-learning approaches.

Summary Statistics
type: **Conference Abstracts**
subject: **undergraduates**
sample size: **200 ppl**
student background: **Asia**
outcome: **rejected**



Title Exercise

“Make Asians Great Again: How to Overcome Obstacles on the Road to International Academics for EFL Students”

Review

- A complete abstract should include ...
 - **A catchy title**
 - **Motivation**
 - **Methodology**
 - **Results**
 - **Implications**
 - **Keywords**

Writing Assignment

- ◆ Abstract writing (10%)
 - Be sure to set a **Title** & list **Keywords**
 - Word limit: no more than 200 words
 - Deadline: 21:00 on 6/11 (Sun.)



Thanks.

References

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