英語学術論文執筆支援ツール AWSuM マニュアル(日本語版)

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<u>作成者・連絡先</u> 水本 篤 (<u>http://mizumot.com</u>) 関西大学 外国語学部・外国語教育学研究科 〒564-8680 大阪府吹田市山手町 3-3-35 TEL: 06-6368-0508 Email: atsushi@mizumot.com

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AWSuM について

AWSuMとは

英語学術論文執筆支援ツール AWSuM (Academic Word Suggestion Machine) は、特に ESP (English for Specific Purposes) で研究が進められてきたムーブ (move) と、コーパ ス研究で用いられる語連鎖 (lexical bundle) を融合させたアプローチにより、論文のセクシ ョン内で、ムーブごとに高頻度の語連鎖をサジェストすることによって、論文執筆をサポート するオンラインツールです。2016 年 2 月より <u>http://langtest.jp/awsum/</u> で無料公開して います。



<AWSuM の特徴>

- 特定分野における, 論文の1つのセクションで, 書くべき内容 (ムーブ) に応じて, 頻度の高い何語かのかたまりが確認できる。
- 語を入力するごとに、その語に続く頻度の高い数語を、予測変換機能のような形で サジェストしてくれる。
- 検索している語やフレーズの前後数語の表示ができるため、特定分野におけるコロケーション、定型表現の確認が楽になる。
- 検索している語やフレーズが、実際に論文中ではどのように使用されているかを、
 (コンコーダンスラインで)表示して確認することができる。
- これらの特徴から、論文を書く場合には、辞書のような従来のツールよりも、語や フレーズの実際の用法を検索、確認するのに役立つ。

対象分野とジャーナル

2016 年 12 月現在,対象としている分野は応用言語学(applied linguistics)とコンピュー 夕科学(computer science)のみです。2017 年 4 月ごろに物質・材料系化学(materials science)を追加し,その後は順次,その他の分野をカバーしていく予定です。

A. 応用言語学分野のジャーナルで含まれているものは以下のものです(1,400本程度)。

- 1. Applied Linguistics
- 2. ELT Journal
- 3. English for Specific Purposes
- 4. Journal of Second Language Writing
- 5. Language Learning
- 6. Language Teaching Research
- 7. Modern Language Journal
- 8. Studies in Second Language Acquisition
- 9. System
- 10. TESOL Quarterly

B. コンピュータ科学分野のジャーナルで含まれているものは以下のものです(300本程度)。

- 1. Applied Ergonomics
- 2. Behaviour & Information Technology
- 3. Communications of the ACM
- 4. Ergonomics
- 5. Human Factors
- 6. *IEEE Transactions on Computers*
- 7. IEEE Transactions on Knowledge and Data Engineering
- 8. *IEEE Transactions on Parallel and Distributed Systems*
- 9. IEEE Transactions on Pattern and Machine Analysis
- 10. IEEE Transactions on Software Engineering
- 11. International Journal of Human-Computer Interaction
- 12. International Journal of Industrial Ergonomics

AWSuM 作成の前段階で行った作業は, (1) 対象論文を pdf や html 形式でダウンロードし, (2) 論文のセクション内の伝達内容のまとまり (ムーブ) ごとにマークをつける (タグ付け), というものです。この作業は論文のすべてのセクションを対象としています。

AWSuM は, 平成 27 年~28 年度関西大学研究拠点形成支援経費(課題名:国際的な研究拠点としての関西大学英語ライティング・ハブの設立および英語論文ライティング支援ツールの開発)の助成を受けて制作されました。また, AWSuM のツール自体の開発は, VERSION2 の大西昭夫氏(<u>http://ver2.jp/</u>)の協力によるものです。

以下では、AWSuM の機能と使い方を順番に説明していきます。

1. 分野, 論文のセクションとムーブの選択

1.1 分野とセクション, ムーブの選択

AWSuM (<u>http://langtest.jp/awsum/</u>) にアクセスすると, 画面左上に分野を選ぶ "**Discipline**"と, 論文のセクションを選ぶ "**Section**", そして, その特定のセクション内に おける伝達内容のまとまり (ムーブ)を選ぶ "**Move**" があり, それぞれプルダウンメニュー で選択します。

Academic Word Suggestion Machine								
Discipline	Section		Move					
Applied Linguistics \$	ALL	\$	ALL	\$				

Discipline, Section, Move ともに, すべての分野, セクション, すべてのムーブを示す "ALL" を選択することも可能です。以下では, Discipline を "Applied Linguistics", Section を "abstract", Move を "02 presenting research" を選択しています。

Discipline	Section	Move
Applied Linguistics	abstract 💠	02_presenting_research \$

Top abstract 02_presenting_research 4-grams					
This article reports on					
the extent to which					
This study examines the					
This study investigated the					
of English as a					
This study examined the					
This study investigates the					
the purpose of this					

画面右端には、選択した Discipline, Section, Move に合わせて, その Section/Move で最も頻度の高い 語連鎖が頻度順に表示されるので,「特定の分野の Section/Move で, どのような語連鎖が使われやす いか」というヒントを得ることができます。

AWSuM で使用しているムーブ分類一覧とそのムーブの働き(Steps)については、次ページ を参照してください。

Ⅰ 1.2 AWSuM で使用している 25 のムーブ分類一覧

Introduction - Arguing for topic prominence (Claiming centrality) (1) Introduction - Arguing for topic prominence (Claiming centrality) (2) Presenting the research - Making topic generalizations (2) Presenting the research - Statting the parabox of the solution or product (3) Describing the methodology - Describing the participants (3) Describing the research - Describing the participants (4) Summarizing the findings - Describing the procedure and conditions (4) Summarizing the findings - Describing the procedure and conditions (4) Summarizing the findings - Describing the procedure and conditions (4) Summarizing the findings - Describing the procedure and conditions (4) Summarizing the findings - Describing the procedure and conditions (4) Summarizing the procedure and conditions - Delucing conditions (4) Finding a niche - Delucing conditions for research (4) Testabilishing a niche - Making topic generalizations (4) Testabilishing a niche - Adding to what is known (4) Finding a niche - Making topic generalizations (4) Testabilishing a niche - Making topic generalizations (4) Testabilishing a niche	Sections	Moves	Steps
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Making suggestions / drawing (pedagogic) implications	implications)	[25] Deductions from the research	Recommending further research
		[25] Deductions from the research	Making suggestions / drawing (pedagogic) implications

2. 語連鎖の提示(サジェスト機能)

2.1 語の入力

分野とセクションとムーブを選択したら文字を入力します。英単語を入力し、(半角)スペー スを入力するごとに、インクリメンタル・サーチ(自動逐語検索)の形でそのセクション・ム ーブで頻度の高い語連鎖が提示されます。

以下は,応用言語学分野の abstract の presenting research で, "The" のあとにどのよう な語が来るかを知りたい場合の例です。The と入力したあとに,スペースを入力することによ り,高頻度の語が提示されていることがわかります。

書き進めることを優先し、このサジェスト機能を利用したくない場合は、画面右側の ☑ Auto-suggest のチェックを外してください。

Discipline	Section		Move	
Applied Linguistics \$	abstract	\$	02_presentir	ng_research 🜲
Keyword				
1 2 3 4 5		3R 4	R 5R	Auto-suggest
The		_		
The extent to which				
The purpose of this				
The present study inv	vestigates			
The results of a				
The present study inv	vestigated			
The aim of this				

※ もし、サジェストされない場合は、直前の文字やスペースを入れ直してみてください。

AWSuM は iOS などのブラウザを含め,すべてのブラウザで動くことが確認されています。もし,不具合があった場合はご連絡ください。

■ 2.2 参照語数(Keyword)と提示語数(R)の指定

AWSuM では, 左側(Keyword)の何語を参照し, 右側(R)の何語を提示するのか, という指定が可能です。これにより, より文脈を限定した語の提示が可能になります。

以下では,具体的に左の参照語数と,右の提示語数をどのように指定するかという説明を行い ます。

たとえば、abstract で、「本研究の目的は~である」という英文が書きたい場合に、Keyword + 4R(左側 1 語を参照して、右側 4 語の提示)の設定で、the と入力すると、以下のよう なサジェストが現れます。

Section				Move				
abstract	t		\$	02_presenting	g_research		\$	
Keyword							_	
1 2	3 4	5				3R	4R	5R
The	The extent	to which						
	The purpo	se of this						
	The results	sofa						
	The preser	nt study inv	estigate	d				
	The aim of	this						
	The preser	nt study inv	estigate	IS				

次に、参照する Keyword を 2 語にして、the purpose と入力し、Keyword $\frac{2}{2} + \frac{4R}{4R}$ (左側 2 語を参照して、右側 4 語の提示)とすると、左側が the purpose で、そのあとに続く 4 語 が何であるのかを確認することができます。

Keyword				
1 2 3	4 5	ЗR	4R	5R
The purpose				
2 words	The purpose of this study			
	The purpose of this article			
	The purpose of the study			
	The purpose of this research			
	The purpose of the present			
	The purpose of this paper			

そして,参照する Keyword を 3 語にして, the purpose of と入力し, Keyword <mark>3</mark> + <mark>4R</mark> (左 側 <mark>3</mark> 語を参照して,右側 4 語の提示) とすると,その後に続く 4 語がサジェストされます。

Keyword	
1 2 3	4 5 3R 4R 5R
The purpose of	
3 words	The purpose of this study is
0	The purpose of this study was
	The purpose of this article is
	The purpose of the study was
	The purpose of this research was
	The purpose of the present study

また, Keyword <mark>4</mark> + <mark>4R</mark> (左側 4 語を参照して, 右側 4 語の提示) と指定し, the purpose of this と入力すると, そのあとに続く 4 語がサジェストされます。

Keyword			
1 2 3	4 5	3R 4R	5R
The purpose of	of this		
4 word	s	The purpose of this study is to	
0 0000		The purpose of this study was to	
		The purpose of this article is to	
		The purpose of this research was to	
		The purpose of this paper is to	
		The purpose of this replication study is	

このように,サジェストさせたい語の直前の左側の参照語数を長くすれば長くするほど,文脈 が限定されていきますので,より具体的にどのような語が次に続くかということが確認できま す。そのため,実際に論文を書いている時には非常に参考になります。 上記までの例では,すべて 4R (右側 4 語)のサジェストとしていますが, 3R にすれば右側の 3 語, 5R にすれば右側の 5 語のサジェストが可能になります。

の場合	\$						
Keyw	vord					_	
1	2	3	4	5	ЗR	4R	5R
The	e purp	ose	of this	s			
					The purpose of this study is		
					The purpose of this article is		
					The purpose of this study was		



1	Keyw	vord								
	1	2	3	4	5]	3R	4R	5R	
ſ	The	e purp	ose	of this						_
						The purpose of this study is t	to exar	nine		
						The purpose of this study wa	as to ex	kamine		
						The purpose of this investiga	tion w	as to e	kamine	

AWSuMは、「特定分野の学術論文のムーブに共通する語連鎖」をサジェストする ことが目的ですが、頻度の低い語連鎖も参考のために提示するようにしており、 特殊な用例も表示される場合もあるため、そのような用例を自分の論文で使う場 合には、剽窃行為(plagiarism)にならないように十分注意してください。また、 論文執筆指導で用いる場合にも、その点にご注意ください。

2.3 左側に来る語(1L~3L)の表示

AWSuM では,検索している Keyword の左側に来る高頻度語を 1 語~3 語(1L~3L)の範囲で表示することが可能になります。デフォルトは"off"になっています。

Keyword		
1 2 3 4 5	3R 4R 5R	Auto-suggest
this study		
		10
off 1L 2L 3L	Word(s) used for *	

たとえば、Results セクションで、this study の前(左側)に使われている 2 語を確認したい 場合は、2Lを選択し、右側(以下の例では 4R)を表示させます。

Section			Move				
results		\$	ALL	\$			
Keyword							
1 2 3	4 5			3R	4R	5R	Auto-suggest
this study							
	this stud	ly was	whether the				
	this stud	iy also	found that				
	this stud	ly has s	suggested that				
	this stud	ly view	ed the contributors	5			
	this stud	ly were	high-achieving int	ernational			
	this stud	ly all th	e students				
	this stud	ly wher	they felt				
off 1L	this stud	iy can t	oe summarized		used	for *	
participant	this stud	ly has e	explored listening				
used in	used in this study because a collocation						
learners in	this study suggest that to						
	this stud	ly was	to determine				
teachers in	this stur	hu provi	do ompirioal cupp	ort	_		

そうすると、以下の左図のように this study の左側に使われる2語(2L)が表示されます。 3L にして同じようにサジェスト機能を使うと、右図のように、this study の左側に使われる 3 語(3L)が頻度順で表示されます。

off 1L 2L 3L	off 1L 2L 3L		
participants in	the participants in		
used in	the teachers in		
learners in	the purposes of		
teachers in	the scope of		

左側に来る語(1L~3L)の表示は、右側(3R~5R)のサジェスト機能に対応していますので、off、1L、2L、3Lのボタンを選択するだけでは表示されません。

|2.4 アステリスクを使ったワイルドカード検索

AWSuMの検索では、どんな語が入るかわからないときに、どんな語でもいいので1 語を入れて検索する方法であるワイルドカード検索を行うことができます。サジェスト機能利用時に、アステリスク(*)を1 語としてみなすことが可能であるため、たとえば、以下のように the* of this と入力すると、* にはどのような単語が入るとしても検索が可能です。

Section		Move				
abstract	\$	02_presenting_research \$				
Keyword						
1 2 3	4 5		3R	4R	5R	
The * of this						
	The * of this	study was to				
	The * of this	article is to				
	The * of this	study is to				
	The * of this	research was to				
	The * of this	study are intermediate	•			

また, The * of * のように, アステリスクを2つ使うことによって, 2 語のワイルドカード 検索をすることも可能です。

2.5 アステリスクに該当する語の表示

AWSuM では、ワイルドカード検索を行った場合に、アステリスク(*)に該当する高頻度語 を表示することができます。

Section	Move
abstract 🜲	ALL \$
Keyword	
1 2 3 4 5	3R 4R 5R ∉ Auto-suggest
the * of * study	
off 1L 2L 3L	Word(s) used for *
	the purpose of this study
	the results of this study
	the results of the study
	the aim of this study

3. コンコーダンスライン表示機能

語やフレーズが実際の論文では、どのように使われているか、文脈中での用例を確認したい場合も多いと思います。AntConc(<u>http://www.laurenceanthony.net/software/antconc/</u>)や CasualConc(<u>https://sites.google.com/site/casualconcj/</u>)などが、そのようなコンコーダンス機能が使える無料ソフトとして存在しており、文脈中での用例を確認することが可能です。AWSuMでも、元の論文の中での語の使用を確認することができます。また、Googleのカスタム検索で、対象コーパス以外のアカデミックなテキストでは、その語やフレーズがどのように使われているかを確認することができます。

3.1 使用コーパスでの検索語を含むコンコーダンスライン

検索方法は、上部のテキストエリアに入力した検索したい語やフレーズを選択するか、 Concordance のテキストエリアに直接入力し、Search ボタンをクリックします。



Concordance に表示される内容は、選択したセクションとムーブに対応します。

■ 3.2 Google カスタム検索

Google search では、Google のカスタム検索を行うことが可能です。このカスタム検索では、英語が第一言語である国の高等教育機関のドメインを指定しているため、対象コーパス以外のアカデミックなテキストでは、その語やフレーズがどのように使われているかを確認することができます。

検索方法は、Concordance と同じように、上のテキストエリアに入力している英語のうち、 実際の用法を知りたい語やフレーズを選択すると、下の Google カスタムサーチの検索窓に自 動でそれが入力されます。(もちろん, 普通の検索のように, 自分で入力することも可能です。)

Goog	gle search	"the * of this"	Sear	rch
	About 90,800,000 results (0.53 seconds)	Sort by:	Relevance 👻	
	PURPOSE STATEMENTS "The purpose of this paper/letter/document is to" "In this p "My reason for writing is to" "This paper will discuss the faculty.washington.edu/ezent/imwps.htm	aper, I will describe/ explain/revie	w/etc. the"	
	The purpose of this agreement is to set forth the terr File Format: PDF/Adobe Acrobat The purpose of this agreement is to set forth the terms and as an auxiliary organization pw suant to Chapter 7 Part auxiliary.calstate.edu/wp-content//DH_Foundation_OpAgr.pd	ms and conditions under which. Auxiliary df	may operate	Å

ダブルクオーテーション付きで検索しているのは, "the * of this"という文字列のみを「完全 一致でフレーズ検索」をするためであり, ダブルクオーテーションを付けない場合は, the や of や this が含まれていれば, どのような英文でも検索結果に表示されます。(ちなみに, Google 検索でも * はワイルドカード検索で用いますが, * に入る語やフレーズは, 1 語のみ ではなく, 数語の場合でも表示されます。)

4. リンク

AWSuMの画面下部には、英語論文執筆やその指導に役に立つ(無料)サイトへのリンクを入れてあります。現在、登録しているリンクは以下のようなものです。この他にも良いサイトがあれば、登録を検討しますので、ぜひご連絡ください。

<語法・類語・コロケーション>

- Sketch Engine (<u>https://the.sketchengine.co.uk/open/</u>) British Academic Written English Corpus (BAWE) などの検索が可能。Word sketch ではコロケー ション, Thesaurus では言い換えの表現を探すことが可能。
- StringNet Navigator 4.0 (<u>http://nav4.stringnet.org/</u>) 語を入力すると、語法やコロケーション、そして用例が提示されます。
- WriteAway (<u>http://writeaway.nlpweb.org/</u>) 語を入力すると、語法や文法などのパターン、そして用例が提示されます(和訳あり)。
- Just The Word (<u>http://www.just-the-word.com/</u>)
 語を入力すると、語法や文法などのパターン、そして用例が提示されます。BNC を利用。
- 5. FLAX [Resource Collections] (<u>http://flax.nzdl.org/</u>) 語やフレーズを入力すると、頻度の高いコロケーションや語法がリスト提示されます。
- ozdic.com (<u>http://ozdic.com/</u>) 語を入力すると、頻度の高いコロケーション、そして用例が提示されます。

く論文の表現集>

- 7. Academic Phrasebank (<u>http://www.phrasebank.manchester.ac.uk/</u>) The University of Manchester の Academic Phrasebank は論文中で言いたいことが機能別, またセ クション別にまとめられている表現集。書籍版はムーブの考え方が取り入れられている。
- 8. Online PhraseBook (<u>http://englishforresearch.com/phrasebook/</u>) 論文中で言いたいことが機能別まとめられている表現集。

<コーパスの検索,コンコーダンサーでの表示>

- Words and phrases (<u>http://www.wordandphrase.info/academic/analyzeText.asp</u>) COCA(Corpus of Contemporary American English)のアカデミックセクションの検索が可能。 単語の場合は類語も提示される。また、フレーズ検索もできるため非常に便利。
- 10. Springer Exemplar (<u>http://www.springerexemplar.com/</u>) Springer から出版されたジャーナルや本をコーパス化したもの。
- Corpus of Research Articles (<u>http://rcpce.engl.polyu.edu.hk/RACorpus/</u>) 39 分野をカバーした論文コーパス(550 万語以上)。
- 12. COCA (<u>http://corpus.byu.edu/coca/</u>) Corpus of Contemporary American English の検索が可能。
- 13. BNC (<u>http://corpus.byu.edu/bnc/</u>) British National Corpus の検索が可能。

5. その他

5.1 研究成果の公表

2017 年 4 月現在, 2 本の論文(1本は掲載, 1本は印刷中)が研究成果として報告されています。

- 水本 篤・浜谷 佐和子・今尾 康裕 (2016).「ムーブと語連鎖を融合させたアプローチによる
 応用言語学論文の分析—英語学術論文執筆支援ツール開発に向けて—」『英語コーパス
 研究』23, 21–32. Retrieved from http://mizumot.com/files/ecs2016.pdf
- Mizumoto, A., Hamatani, S., & Imao, Y. (in press). Bundle-move connection approach: Applying its concept to the development of an online writing support tool for research articles. Language Learning.

2017 年 3 月には書籍『ICT を活用した英語アカデミック・ライティング指導一支援ツールの開 発と実践』(金星堂)も出版しました。

5.2 今後の研究・開発予定

今後は、科研費などの外部助成金に申請しながら、以下の研究・開発を進めていく予定です。

- AWSuM を使用した論文執筆指導
- 理系・文系より多くの分野のカバー
- ムーブのタグづけの自動化
- 頻度だけではない語連鎖の提示方法の検討
- 同義語・反意語提示
- 表現集的なものを取り入れる方法の検討

研究協力者も随時募集していますので、ご興味のある方はご連絡ください。また、AWSuM を 論文執筆に使用した方からのご意見・ご感想もお待ちしています。

5.3 クレジット

AWSuM は、札幌の株式会社 VERSION2 (<u>http://ver2.jp/</u>)の協力によって開発されました。

version2 web technology for education