

## البيانات الشخصية

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December 10 <sup>th</sup> , 1981, Amman, Jordan	تاريخ ومكان الميلاد
King Abdullah II School for Information Technology	الكلية
Department of Information Technology	القسم

## المؤهلات الدراسية

التاريخ	الجهة المانحة لها	التخصص	الدرجة العلمية
2012	Korea Advanced Institute of Science and Technology	Information & Telecommunications Technology Engineering	PhD
2006	The University of Jordan	Computer Science	MSc
2003	Al-Balqa' Applied University	Information Technology	BSc

## التخصص ومجالات الاهتمام

Computer Science	التخصص العام
Information Retrieval & Natural Language Processing	التخصص الدقيق
Information Retrieval, Natural Language Processing, Data & Text Mining	مجالات الاهتمام

## عنوان وملخص رسالة الدكتوراه

## عنوان وملخص رسالة الدكتوراه (في حدود 150 كلمة)

**Wikipedia-based query phrase expansion for patent class search and its analysis based on topic drift concept= 특허 클래스 검색 및 분석을 위한 위키 피 디아 기반의 쿼리 구문 확장은 토픽 드리프트 컨셉을 바탕으로**

Relevance Feedback methods generally suffer from topic drift caused by word ambiguities and synonymous uses of words. As a way to alleviate the inherent problem, we propose a novel query phrase expansion approach utilizing semantic annotations in Wikipedia pages, trying to enrich queries with context disambiguating phrases. The idea was implemented for patent search where patents are classified into a hierarchy of categories, and the analyses of the experimental results showed not only the positive roles of phrases and words in retrieving additional relevant documents through query expansion but also their contributions to alleviating the query drift problem. More specifically, our query expansion method was compared against Relevance Model, a state-of-the-art, to show its superiority in terms of MAP on all levels of the classification hierarchy. Furthermore, we investigate the relationship between QE methods with respect to topic drift concept. More precisely, how QE methods behave causing topic drift. To investigate that, we propose a method of showing drifting topics, among other topic classes within queries, and their effect on the retrieval effectiveness. We further compare our work against Relevance Model to show the amount of drift generated by each expansion method.

## السجل الوظيفي

التاريخ	جهة العمل وعنوانها	الوظيفة
2018-2016	KTNET/KOICA project: Jordan Online E-Procurement System (JONEPS)	Local consultant
2017-2016	PricewaterhouseCoopers (PwC) Assurance Center of Excellence (ACE)	Regional developer/cons
2018-2017	Scientific Research Support Fund (SRSF), Ministry of Higher Education and Scientific Research	Technical & Journals
2012-now	The University of Jordan	Professor
2014-2015	Korea Advanced Institute of Science and Technology	Invited Professor

## الأعمال الإدارية واللجان

التاريخ	مسمى العمل الإداري / اللجان والمهام
2020.9-now	Director, Information Technology Center, The University of Jordan.
2019.9-2020.9	Deputy Director of Information Technology Center, The University of Jordan.
2018.8-2019.9	Assistant Dean for Automated Exams Management, King Abdullah II School for Information Technology, The University of Jordan
2018.3-2018.9	Assistant Dean for Lab Affairs, King Abdullah II School for Information Technology, The University of Jordan
2015.9-2017.6	Assistant Dean for Technology Affairs / Journals Manager, Deanship of Academic Research & Quality Assurance
2013.9-2013.12	Assistant Dean for Lab Affairs, King Abdullah II School for Information Technology, The University of Jordan

## الأبحاث العلمية المنشورة آخر خمس سنوات

عنوان البحث والناشر والتاريخ	اسم الباحث (الباحثين)
(2020) Investigating users' experience on social media ads: perceptions of young users, Heliyon, Volume 6, Issue 7, 2020,	D. Al-Qudah, B. Al-Shboul, A. Al-Zoubi, R. Alsayyed, A. Cristea
Remote Sensing Of Cucumber Powdery Mildew Using Advanced Unmanned Vehicle And Image Processing Techniques , Fresenius Environmental Bulletin 9181, Volume 28 – No. 12/2019 pages 9181-9185	B Qarallah1, B Al-Shboul, H Hiary, H Alsawalqah, M Tahat, M Al-Bsoul, Y Othman,
(2019) Efficient Requirement Prioritization Based on Enhanced Multi-Verse Optimizer, Journal of Theoretical and Applied Information Technology 97 (19):4966-4977	KK Adhim, A Hudaib, B Al-Shboul
(2019) Exploring Non-Human Traffic in Online Digital Advertisements: Analysis and Prediction, International Conference on Computational Collective Intelligence, 663-675	S Almahmoud, B Hammo, B Al-Shboul
(2019) Factors Impacting on CMMI Acceptance Among Software Development Firms: A Qualitative Assessment Modern Applied Science 13 (3):170-178	H Alsawalqah, Y Alshamaileh, B Al-Shboul, A Shorman, A Sleit,
(2017) A Proposed Index for Evaluating Component Commonality for Software Product Family, New Trends in Information Technology Conference	B Al-Shboul, H Alsawalqah, Y Alshamaileh, H Faris, I Aljarah, A Abadleh
(2017) Online Social Media-based Sentiment Analysis for US Airline companies, New Trends in Information Technology Conference	H Hakh, I Aljarah, B Al-Shboul
(2017) An Image Processing Approach for Cucumber Powdery Mildew Infection Detection, New Trends in Information Technology Conference	B Al-Qarallah, B Al-Shboul, H Hiary, A Aljawawdeh, H Alsawalqah
(2017) New Synchronization Algorithm Based on Delta Synchronization for Compressed Files in the Mobile Cloud Environment, International Journal of Communications, Network and System Sciences 10 (4): 59-74	RMH Al-Sayyed, F Namous, AM Alkhalafat, B Al-Shboul, S Al-Saqqa
(2017) Exploiting Social Media and Tagging for Social Book Search: Simple Query Methods for Retrieval Optimization, Social Media Shaping e-Publishing and Academia, 107-117	F Hamad, B Al-Shboul
(2016 ) Users profiling using clickstream data analysis and classification, Cybersecurity and Cyberforensics Conference (CCC): 96-99	W Alswiti, J Alqatawna, B Al-Shboul, H Faris, H Hakh,
(2016) Voting-based Classification for E-mail Spam Detection, Journal of ICT Research and Applications 10 (1), 29-42	B Al-Shboul, H Hakh, H Faris, I Aljarah, H Alsawalqa
(2016) A Hybrid Approach based on Particle Swarm Optimization and Random Forests for E-mail Spam Filtering, 8th International Conference on Computational Collective Intelligence ICCCI 2016. Lecture Notes in Computer Science, vol 9875. Springer, Cham	H Faris, I Aljarah, B Al-Shboul

(2016) Exploiting Mobile technology and Social Media and Tagging for Social Book Search: Simple Query Methods for Retrieval Optimization, The 2nd International Conference of E-Publishing : ICEPUB 2016: 107-120	F Hamad, B Al-Shboul
(2015) Initializing Genetic Programming using Fuzzy Clustering and its Application in Churn Prediction in the Telecom Industry, Malaysian Journal of Computer Science 28 (3), 213-220	B Al-Shboul, H Faris, N Ghatasheh

## المشاركة في المؤتمرات والندوات العلمية

نوع المشاركة	مكان وتاريخ انعقاده	اسم المؤتمر والجهة المنظمة
Presenter	2014 Thailand	International Conference on Big Data and Smart Computing (BIGCOMP)
Presenter	2014 Korea	International Conference on Computational Collective Intelligence
Presenter	2015 Jordan	International Conference of E-Publishing
Author	2016 Jordan	Cybersecurity and Cyberforensics Conference
Presenter	2016 Greece	International Conference on Computational Collective Intelligence
Author	2017 Jordan	New Trends in Information Technology Conference
Presenter	2019 France	International Conference on Computational Collective Intelligence

## الدورات التدريبية

التاريخ	اسم الدورة والجهة المنظمة
September 2018	JU Online Exams
December 2018	JU Online Exams
March 2019	JU Online Exams
September 2019	JU Online Exams
September 2019	JU Online Exams
September 2019	JU Online Exams
April 2020	Building online exams using Moodle
April 2020	Publishing with Scopus
April 2020	Using MS Teams – Beginner level
May 2020	Using MS Teams with MS Forms, Skype for business, OneDrive for business, MS Outlook, and MS Planner
August 2020	Using MS Teams – Beginner level
September 2020	Using MS Teams – Beginner level

## الأنشطة التدريسية

الدراسات العليا	البكالوريوس	المقررات والمواد الدراسية التي قام بتدريسها
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Computing Fundamentals
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Basics of Computing

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Web Application Development – 1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Web Application Development – 2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Web Publishing
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Semantic Web
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Document Analysis and Recognition
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Discrete Mathematics
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Computer Skills for Scientific Faculties
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Decision Support Systems
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Web Semantics
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Web Economics
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical Packages
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Management Information Systems
<input type="checkbox"/>	<input checked="" type="checkbox"/>	e-Commerce
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Information Retrieval
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Digital Logic

## العضوية في الهيئات والجمعيات العلمية المهنية

التاريخ	اسم الهيئة والجمعية العلمية المهنية ومكانها

## المنح والجوائز التي حصل عليها

التاريخ	الجهة المانحة للجائزة ومكانها	اسم الجائزة