



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 5712

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Informatica Giovanni degli Antoni**

Scientist- in - charge: _____ **Prof. Mascetti** _____

Aiman Solyman

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Solyman
Name	Aiman

PRESENT OCCUPATION

Appointment	Structure
Resercher	China-Africa Center for Technology Transfer and Commercialization

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	-	-	-
Specialization	Bachelor (Software engineering)	Mashreq University	June 2011
PhD	Software engineering	South China University of Technology	June 2012
Master	Computer science	Sudan University of Science and Technology	December 2015
Degree of medical specialization	-	-	-
Degree of European specialization	-	-	-
Other	Innovation and Entrepreneurship Program	Tsinghua University	November 2022



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of	Association	City
-	-	-	-

FOREIGN LANGUAGES

Languages	level of knowledge
Arabic	Native speaker
English	Speaking, reading, and writing
Chinese	basic conversational skills

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2018	4 years CSC funded studentship for PhD degree at South China University of Technology
2013	2 years SDU funded studentship for Master's degree at Sudan University of Science and Technology

TRAINING OR RESEARCH ACTIVITY

<p>Completed a Ph.D. in Computer Science, specializing in natural language processing (NLP) and deep learning, at the South China University of Technology.</p> <p>Conducted research on machine learning and deep learning algorithms for automatic grammar correction, speech recognition, and dialogue systems as part of my Ph.D. program.</p> <p>The first author of three peer-reviewed papers on deep learning and NLP in Q1 journals such as the journal of King Suad University, Knowledge-based systems, and the Egyptian informatics journal.</p> <p>Participated in various summer schools and workshops on machine learning, deep learning, and NLP, including the Deep Learning Summer School at the SCUT.</p> <p>Completed online courses on machine learning, deep learning, NLP, and image processing.</p>

PROJECT ACTIVITY

Year	Project
2019	Analysis and macro forecast of information dissemination structure for online social network, Project leader Prof. Wang Zhenye (wangzy@scut.edu.cn).
2021	Risk management and response to extreme weather and climate disaster chains in the Guangdong-Hong Kong-Macao Greater Bay Area, Project leader Prof. Tao qian (taoqian@scut.edu.cn).
2023	Project manager and first developer for Africa solar network at the China-Africa Center for Technology Transfer and Commercialization



PATENTS

Patent

CONGRESSES AND SEMINARS

Date	Title	Place
2020	International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering (ICCNEEE)	Khartoum, Sudan
2019	International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering (ICCNEEE)	Khartoum, Sudan
2017	International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering (ICCNEEE)	Khartoum, Sudan
2015	International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering (ICCNEEE)	Khartoum, Sudan

PUBLICATIONS

Journals and Conferences papers
Solyman, A., Zhenyu, W., Qian, T., Elhag, A. A. M., Rui, Z., & Mahmoud, Z. (2022). Automatic Arabic Grammatical Error Correction based on Expectation Maximization routing and target-bidirectional agreement. <i>Knowledge-Based Systems</i> , 108180.
Solyman, A., Zhenyu, W., Qian, T., Elhag, A. A. M., Toseef, M., & Aleibeid, Z. (2021). Synthetic data with neural machine translation for automatic correction in arabic grammar. <i>Egyptian Informatics Journal</i> , 22(3), 303-315.
Musyafa, Ahmad, Ying Gao, Aiman Solyman, Chaojie Wu, and Siraj Khan. "Automatic Correction of Indonesian Grammatical Errors Based on Transformer." <i>Applied Sciences</i> 12, no. 20 (2022): 10380.
Obied, Z., Solyman, A., Ullah, A., Fat'hAlalim, A., & Alsayed, A. (2021). BERT Multilingual and Capsule Network for Arabic Sentiment Analysis. In 2020 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) (pp. 1-6). IEEE.
Aboras, A., Solyman, A., Abobieda, A., & Yousif, H. (2019, September). A Novel Method to Improve the Retrieved Multilingual Documents Score. In 2019 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) (pp. 1-5). IEEE.
Jihad, S., Chen, X., Shi, B., & Aiman, S. (2019, September). Multidimensional knapsack problem for resource allocation in a distributed competitive environment based on genetic algorithm. In 2019 international conference on computer, control, electrical, and electronics engineering (ICCCEEE) (pp. 1-5). IEEE.
Solyman, A., Wang, Z., & Tao, Q. (2019, September). Proposed model for arabic grammar error correction based on convolutional neural network. In 2019 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) (pp. 1-6). IEEE.



Mahmoud, Z., Solyman, A., & Elhag, A. A. M. (2019, September). Harmonized Software Quality Improvement Models for Sudanese SME Based on CMMI. In 2019 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) (pp. 1-6). IEEE.
Osman, A. M., Dafa-Allah, A., & Elhag, A. A. M. (2017, January). Proposed security model for web-based applications and services. In 2017 International Conference on Communication, Control, Computing and Electronics Engineering (ICCCCEE) (pp. 1-6). IEEE.
Solyman, A. M., Ibrahim, O. A., & Elhag, A. A. M. (2015, September). Project management and software quality control method for small and medium enterprises. In 2015 International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering (ICCNEEE) (pp. 123-128). IEEE.

Articles in reviews
First author for a manuscript entitled 'Optimizing the Impact of Data Augmentation for Low-Resource Grammatical Error Correction' that is currently under review for the second round in the Journal of King Saud University - Computer and Information Sciences - Q1 impact factor 9.006.

Congress proceedings

OTHER INFORMATION

I have expertise in software development, primarily using Python (Paytorch, TensorFlow) and .Net framework techniques, including VB.NET, C#.NET, ASP.NET Web form, ASP.NET MVC, ADO.NET, Web-Services, Microsoft SQL Server, ORACLE DB Server, C++, and JAVA.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: ____ Wuhan - China____, ____03/24/2023____