Rund Fareed Suleiman Mahafdah

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Education

- ***M.Sc of Computer Sciences (CS),* Faculty of Information Technology and Computer Science,**
The National University of Malaysia (UKM), Selangor, Malaysia. 2014

  Major: ***CS,*** CGPA: 3.73/4.00, A-.
  Research title: "ARABIC PART OF SPEECH TAGGING USING K-NEAREST NEIGHBOUR AND NAIVE BAYES CLASSIFIERS COMBINATION".

- ***B.Sc of Information Technology and Computer Sciences***, Yarmouk University, Irbid, Jordan 2010
  Major: ***Computer Information Systems***, CGPA: 72.5/100**,** good.

- ***High School Certificate,*** Noor Al-Husain Secondary School, Irbid, Jordan 2006
  Major: ***scientific,*** CGPA: 79.5/100, very good.

Personal Information

- Nationality: Jordanian
- DOB:11/May/1988, Female
- Email: black.iris28@yahoo.com
- Skype: Rund88

Achievements / Awards

- Certificate of appreciation for the outstanding Technical and Managerial work in organizing the iLMS Online Competition. Conducted by College of Computing and Information Technology, Shaqra University, Saudia Arabia 11/ 2017
- Certificate of thanks to participate in the success of the graduation ceremony of students, Shaqra University, Saudia Arabia. 5/2017
- Certificate of attendance and participation on the International Day of Quality in the Faculty of Education 3/2017
- B.Sc scholarship for *academic excellence* from Ministry of Military, Jordan. 2006/2010
- Granted an award by Irbid Youth Club for *academic excellence.* 06/2006

Research Experience – Master's Degree

- ***ARABIC PART OF SPEECH TAGGING USING K-NEAREST NEIGHBOUR AND NAIVE BAYES CLASSIFIERS COMBINATION***

Part of speech (POS) tagging forms the important preprocessing step in many of the natural language processing applications like text summarization, question answering and information retrieval system. It is the process of classifying every word in a given context to its appropriate part of speech. Different POS tagging techniques in the literature have been developed and experimented. Currently, it is well known that some POS tagging models are not performing well on the Quranic Arabic due to the complexity of the Quranic Arabic text. This complexity presents several challenges for POS tagging such as high ambiguity, data sparseness and large existence of unknown words. The main problem here is to find out how existing and efficient methods perform in Arabic and also how can Quranic corpus be utilized to come up with an efficient framework for Arabic POS tagging. We propose a classifiers combination experimental framework for Arabic POS tagger, by selecting two best diverse probabilistic classifiers used in numerous works in non-Arabic language; K-Nearest Neighbour (KNN), Naive Bayes (NB). The Majority voting is used here as the combination strategy

to exploit classifiers advantages. In addition, an in-depth study has been conducted on a large list of features for exploiting effective features and investigating their role in enhancing the performance of POS taggers for the Quranic Arabic. The aim is to efficiently integrate different feature sets and tagging algorithms to synthesize a more accurate POS tagging procedure. The data used in this work is the Arabic Quran Corpus, an annotated linguistic resource consisting of 77,430 with Arabic grammar, syntax, and morphology for each word in the Holy Quran. The highest accuracy in the results achieves 98.32%, which can be a significant enhancement for the state-of-the-art for Arabic Quranic text. The most effective features that yield this accuracy are a combination of POS-before, POS-after, suffixes and prefixes.

- ***Ranking and Reputation Based Resource Allocation in P2P System***

Most structured Peer-to-Peer networks assume that all nodes in the network are altruists. However, as the networks grow larger, they may include many selfish nodes, which leech resources from the network without contributing any in return. This is a serious problem in existing P2P systems. Thus, as a solution to this problem we propose two new schemes. One of them is Distributed Reputation-based System, according to which peers earn reputation in direct accordance to their contributions to the system. In this way, each peer has to manage a tradeoff between the bandwidth capacity he will dedicate for uploading (in order to increase his reputation or ranking) and the bandwidth capacity he will dedicate for his downloads, other scheme is the Ranking based in which we define a utility function which capture the best wish for the source peer to serve co mpeting peers, who request services from the source peer.

M.Sc Courses

- TM6014 Research Methodologies in Information Technology, TK6014 Automata and Programming Theory, TP6534 Natural Language Processing, and tr6584 Industrial Modeling and Simulation.

Master's Degree Course Projects

- Coding mini projects

- Huffman program in Data structure
- AVL tree program in Data structure
- Minimum spanning tree graph in Data Structure
- Linear and nonlinear program in Industrial Simulation
- Morphology program in Natural Language Processing
- Part of speech tagging program in Natural Language Processing

Publications

-RUND MAHAFDAH, NAZLIA OMAR, OMAIA AL-OMARI, 2014 ARABIC PART OF SPEECH TAGGING USING K-NEAREST NEIGHBOUR AND NAIVE BAYES CLASSIFIERS COMBINATION, JOURNAL OF COMPUTER SCIENCE, SCIENCE PUBLICATIONS.

-Omaia Mohammad Awad Al Omari, Nayyar Ahmed Khan and Rund Fareed Mahafdah
RANKING AND REPUTATION BASED RESOURCE ALLOCATION IN P2P SYSTEM
Mediterranean Journal of Basic and Applied Sciences (MJBAS)
Volume 1, Issue 1, Pages 293-301, October-December 2017

-Rund Fareed Mahafdah, Omaia Mohammad Al Omari, Nayyar Ahmed Khan, Learning Modal Adaptability to improve Reading and Writing skills of Students. Study of Choice of Learning Modals for the students based on gender.International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, Vol. 7 Issue 03, March-2018

Computer Skills, Abilities, & Hobbies

- Abilities: Rapidminer, Microsoft Office, Internet & E-mailing, C++, UML using Rational Rose, PHP, and others
- Self-starter, positive attitude and flexible.
- Ability to work & perform under pressure with effective time management skills.
- Learning about new innovations in the computer industry.
- Learning new languages.

Relevant Teaching & Technical Experience

• **Lecturer**, Shaqra University , Shaqra, Kingdom of Saudi Arabia 11/2014 to now
- Teaching courses to undergraduate students: Decision Support System, Academic and Life Skills, computer security, computer architecture, Introduction to database. Database management systems, Human and computer interactions, artificial intelligence, digital logic design, discret mathmatics, communication skills, and data communication systems.

• ***Technical support or programming and networking.*** 1/2/2011 to now
- Installing and configuring computer systems.
- Diagnosing and solving hardware/software faults.
- Network Administrator.
- Network/Information Systems Manager.
- Smartboard Activation and maintenance
- intranet Learning Management System (iLMS)

• Part-time ***Lecturer***, Information Technology and Computing, Arab Open Univesity, Girls branch, Hail, KSA. 10/2010 to 02/2011
- Taught courses to undergraduate students: Information & Communication Technology Systems, and Database Systems using Oracle 10g.

• ***Traind Computer***, World Institute for Computer & Technology, Girls branch, Hail, KSA. 09/2010 to 10/2010
- Teaching courses to undergraduate students: VB.net levels (1, 2), Network Systems, Database Systems, and Mathematics.

Language Qualifications

• Arabic is native.
• Scored 6.0 out of 9.0 in the IELTS exam. 10/2012
• English: Excellent in reading 6.5/9.0, listening 5.5/9.0, speaking 5.5/9.0, and writing 6.5/9.0. IELTS scores
• English is the media of instruction and communication at The National University of Malaysia, and Yarmouk University, and Arab Open University.
• Malay: Starter.

Training and Community Service

• Attended course for preparation work opportunity, “How to be a Successful Leader”, YU. 04/2005 to 05/2005
• Saudi Programing 12/2017
Participation in preparing and conducting the "Saudi Programing", an initiative of the Musk Foundation in partnership with Microsoft, targeting young men and women in the Kingdom. The initiative was designed to demystify programming and encourage everyone to learn the basics of this area. In cooperation with MESC, the Ministry of Education and Microsoft, offer an opportunity for young people to learn the basics of programming in a fun and easy environment.

• Excellent communication skills, and class management.
• Self-starter, hardworking, flexible, and persistent.

Memberships, Workshops, & Conferences

• Participation in the UKM International Food Festival 2013. 5/12/2013
Hall of glory, UKM-Bangi, Selangor, Malaysia.

• A member of Jordanian Students Association at UKM University. 1/11/2013 to 1/6/2014

- Workshop participation in the Sustaining Islam in a Multicultural Environment in Malaysia for Foreign Students 2013. 21/11/2013
  Conducted by Tunaku Mizan Zainal Abidin Mosque, Putrajaya, Selangor, Malaysia.

- Attended Semantic Technology and Information Retervial (STAIR'13) Workshop on Semantic Web. 27/8/2013
  Conducted by Prof. Dr. Steffen Staab, co-located with the International Multi-Conference on Artificial Intelligence Technology 2013, FTSM Faculty, UKM-Bangi, Selangor, Malaysia.

- Knowledge Technology (KT) Journal Publication Workshop. 31/5 to 2/6/2013
  The Royale Bintang Resort and Spa, Seremban, Malaysia.

References

- References are available upon your request.

- Education, certificates of experience and honors, IELTS scores, etc.. attached as requested.