

AHMED A. AL-ABSI

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Current Status

Assistant Professor in Department of Smart Computing at Kyungdong University- Global Campus, South Korea from August 2016 ~ now.

KDU, Head of Smart Computing Department, and Associate Dean, from February 2017~ now.

KDU, Director of Academic collaboration Centers, from April 2017~ now.

PERSONAL PROFILE

Proactive and creative researcher

Experienced in working independently

Ability to meet deadlines and accurate recording and analysis

Teaching experience with students and some PhD informal supervision

EDUCATION

- 2012 – 2016 Ph.D. Dongseo University, Dep. of Ubiquitous IT, Busan – South Korea
(CGPA 4.46 / 4.5)
PhD research area: Big Data, Hadoop MapReduce, Cloud Computing
Thesis title: PCMR: An enhanced Parallel Computing MapReduce Framework for Big
Data Processing in Cloud Environment
Advisor: Prof. Dr. Dae-Ki Kang
- 2009 – 2011 Master of Computer Science (IT), University Utara Malaysia – Malaysia
(CGPA 3.82 / 4)
- 2004 – 2008 Bachelor of Computer Applications, Bangalore University, Bangalore – India
(First Class)
- 2000 – 2002 High School – Scientific Section, Kuwait Secondary School- Sana'a, Yemen
(88%)

RESEARCH DESCRIPTION AND INTERESTS

I enhance and optimize scheduling of MapReduce framework with Microsoft Azure cloud platform integrated with Hadoop to support big data applications. I am considering big data applications from artificial intelligence, bioinformatics, and document information retrieval. My proposed framework approaches aims to bring optimum enhancements in the performance of Hadoop MapReduce based on cloud computing environment and resource management. My research interests have been concentrated on subjects: Big Data, Hadoop, Cloud computing, Deep Learning, Database Systems, Distributed systems, Parallel computing, High-performance computing, Security, VANET, and bioinformatics. My future research is to work on designing memory management strategies for memory hungry nature algorithms in machine learning data applications for cloud environment using deep learning.

ACADEMIC EXPERIENCE

- 2013 - 2016** Researcher, Developing Big Data Models. NRF (National Research Foundation of Korea), Dongseo University, Busan - South Korea.
- 2013- 2015** online lecturer, Undergraduate students – Faculty of Computer & Information Technology Courses. Many universities, Sep. 13- July 15.
- 2013-2016** Planned, wrote and led seminars, Graduate Students, Dongseo University.
- 2011** Tutor, Third Year undergraduate students – Decision Support System, University Utara Malaysia, Kedah, Malaysia.

PROFESSIONAL (INDUSTRIAL) EXPERIENCE

- Oracle Online Test Oracle 9i: SQL with 98.08% score.
- Oracle 10g new features at Q-soft Company, Bangalore – India.
- Oracle 9i DBA at Q-soft Company, Bangalore – India.
- Linux Sun Solaris v10 System Administration Certified at Q-soft Company, Bangalore – India.
- Microsoft Certified Systems Engineer (MCSE) at IIHT Company, Bangalore –India.
- Advance Visual Basic and VB.net programming courses at SSi Company, Bangalore –India.
- Microsoft Secretary Diploma.

SESSION CHAIR

- Session chair, The 10th International Conference on Future Information Technology (FutureTech 2015).Hanoi, Vietnam, May 18-20, 2015.
- Yemen Representative in the Federation of International Student Associations, Bangalore in the academic year 2006-2007.
- Yemen Representative in the Federation of International Student Associations, Bangalore in the academic year 2005-2006.

VOLUNTEER WORK IN SOUTH KOREA

- April, 2016** Teaching Volunteer, Cross Culture Awareness Program-UNESCO, Morundae Elementary School, Busan- South Korea.
- April, 2016** Teaching Volunteer, Cross Culture Awareness Program-UNESCO, Hwaen Elementary School, Busan- South Korea.
- June 2015** Teaching Volunteer, Cross Culture Awareness Program-UNESCO, Haesong Elementary School, Busan- South Korea.
- May, 2015** Teaching Volunteer, Cross Culture Awareness Program-UNESCO, Dukmoon Girls High School, Busan- South Korea.
- May, 2015** Teaching Volunteer, Cross Culture Awareness Program-UNESCO, Garak Middle School, Busan- South Korea.
- May, 2013** Teaching Volunteer, Cross Culture Awareness Program-UNESCO, Gumi Girls' Middle School, Gumi - South Korea.
- Dec, 2012** Teaching Volunteer, Cross Culture Awareness Program-UNESCO, Sangin High School, Daegu - South Korea.

LANGUAGE

- Arabic Mother tongue
- English Fluent
- Korean Intermediate (TOPIK level 4)
- Malays Basic words and phrases
- Hindi Basic words and phrases

SKILLS

Technical Expertise IT Skills

- High analytical and programming skills in V.B, C++, C# , Java, R, Python, D3, Matlab, databases designing, data mining, and data warehousing.
- Oracle: ORACLE 9i, 10g, and 11g Database Administrator (DBA)
- Cloud Computing: Azure platform, HDINSIGHT.
- Hadoop MapReduce programming model and Big Data applications.
- Operating Systems: Linux Sun Solaris v11, Unix, Win 8, server 2012, and MAC.
- Networking: Microsoft Network Systems Engineer (MCSE), VANET, Network Analysis Tools.
- Analysis & Design: MS Visio, Rational Rose.

Communications

- Worked closely with research colleagues, department staff and external contacts
- Experienced in working with a wide range of students
- Made presentations to both academic and non-specialist audiences

Positions of Responsibility

- Participated in academic and policy dissemination activities and workshops
- Supported students' research activities
- Undertook administrative tasks relating to student induction programme
- Assisted in coordinating day to day running of international house residential programme

CONFERENCES and PROGRAMS ATTENDED

- Participated as group leader in the "Young ICT Leaders' Forum 2015" organized by the National Information Society Agency (NIA) and International Telecommunication Union (ITU), 9-11 December 2015 at BEXCO, Busan, the Republic of Korea.
- Presenter at the 6th Annual International Conference on ICT: Big Data, Cloud and Security (ICT-BDCS 2016), 27th – 28th July 2015, Singapore.
- Presenter and Session Chair at the 10th International Conference on Future Information Technology (FutureTech 2015), May 18-20, 2015, Hanoi-Vietnam.
- Delegate at the 9th International Conference on Multimedia and Ubiquitous Engineering (MUE-15), May 18-20, 2015, Hanoi-Vietnam.
- Participated in SSTiC 2014 Tarragona International Summer School on Trends in Computing Organised by Rovira i Virgili University, July 7-11, 2014, Tarragona-Spain.

Attended Professors' intensive courses:

- Prof. Rajkumar Buyya (U Melbourne), Cloud Computing
- Prof. Amr El Abbadi (U California, Santa Barbara), The Distributed Foundations of Data Management in the Cloud
- Prof. Jeffrey D. Ullman (Stanford U), MapReduce Algorithms
- Prof. Divyakant Agrawal (Qatar Computing Research Institute, Doha), Scalable Data Management in Enterprise and Cloud Computing

Infrastructures

- Prof. Carl Lagoze (U Michigan, Ann Arbor), Curation of Big Data
 - Prof. David S. Johnson (Columbia U, New York), Open and Closed Problems in NP-Completeness
 - Prof. George Karypis (U Minnesota, Twin Cities), Programming Models/Frameworks for Parallel & Distributed Computing
 - Prof. Richard M. Fujimoto (Georgia Tech, Atlanta), [introductory] Parallel and Distributed Simulation
- Participated in Saemaul Training Program for training course “ Saemaul Training for Foreign Students in Korea ” provided by the Saemaul Undong Central Training Institute, from Sep 27-28, 2013, Seoul-Korean.
 - Studied intensive Korean language proficiency program course at Keimyung University, from 1st September 2012- 15th August 2013, Daegu- Korea.
 - Presenter in the Malaysia Technology Expo (MTE) held at the Kuala Lumpur Convention Center (KLCC), on the 17th to 19th Feb 2011, Kuala Lumpur- Malaysia.
 - Presenter at the IEEE Student Conference on Research and Development –SCOREd Engineering: Innovation and Beyond, 13-14 December 2010, Putrajaya-Malaysia.
 - Participated in Second International Conference on Network Applications, Protocols and Services (NETAPPS 2010), Held on 22-23 Septembers, 2010, Alor Setar, Kedah- Malaysia.
 - Participated in the World Youth Peace Summit held in Trichur (WYPS- T), from 7th to 10th February 2007, Kerala State- India.

FUNDING and ACADEMIC AWARDS

- 2015- 2016 PhD Research Grant, Korean Ministry of Education, Science, and Technology (MEST), Dongseo University. Busan- South Korea.
- 2015 PhD Research Grant, Dongseo Frontier Project, Dongseo University. Busan- South Korea.
- 2013- 2016 PhD Research Stipend, National Research Foundation of Korea (NRF), Dongseo University. Busan- South Korea.
- 2012-2016 Awarded Korean Government Scholarship Program (KGSP) for PhD Program in Dongseo University.
- 2009-2012 Awarded Government Scholarship (Master degree scholarship), Ministry of High Education, Sana'a-Yemen.
- 2011 Bronze medalist for “Anywhere on Keyboard Password Technique” in the 10th Malaysia Technology Expo (MTE) 2011, organized by Malaysian Association of Research Scientist (MARS), KLCC, Kuala Lumpur, Malaysia, 17-19 February, 2011.
- 2011 Gold medalist for “Database Normalizer Prototype” in Intel IT/MM Carnival – held at School of Computing, UUM, 2011.
- 2004-2008 Awarded Indian Council for Cultural Relations Scholarship program (ICCR) (Bachelor degree scholarship).
- 2006 Awarded certificate of Best International Outgoing Student for the Academic year 2006-2007 from ICCR, Bangalore – India.
- 2007 Awarded a certificate from Garden City College for the awe of commitment and zeal in the year 2006-2007.

PUBLICATIONS and PRESENTATIONS

- Al-Absi, M. A., **Al-Absi, A. A.**, Kim, T. Y., Lee, H. J. "An Environmental Channel Throughput and Radio Propagation Modeling For Vehicle-to-Vehicle Communication", International Journal of Distributed Sensor Networks. (Accepted)
- Al-Absi, M. A., **Al-Absi, A. A.**, Kang, Y. J., Lee, H. J. "Obstacles Effects on Signal Attenuation in Line of Sight for Different Environments in V2V Communication", to appear in the Proc. of 20th International Conference on Advanced Communication Technology (ICACT18), Elysian Gangchon Ski Resort, GW, Korea, Feb 11-14, 2018
- Satyabrata Aich, Kim younga, Kueh Lee Hui, , **Al-Absi, A. A.***, and Mangal Sain. "A Nonlinear Decision Tree based Classification Approach to Predict the Parkinson's disease using Different Feature Sets of Voice Data", to appear in the Proc. of 20th International Conference on Advanced Communication Technology (ICACT18), Elysian Gangchon Ski Resort, GW, Korea, Feb 11-14, 2018
- Al-Absi, M. A., **Al-Absi, A. A.**, Lee, H. J. "V2V Communication Modeling for Environmental Channel Throughput and Radio Propagation" The 8th International Conference on ICT Convergence (ICTC2017)October 18-20, 2017 / Jeju Island, South Korea
- Satyabrata Aich, , **Al-Absi, A. A.***, Kueh Lee Hui, John Tark Lee and Mangal Sain. " A Classification Approach with Different Feature Sets to Predict the Quality of Different Types of Wine using Machine Learning Techniques", to appear in the Proc. of 20th International Conference on Advanced Communication Technology (ICACT18), Elysian Gangchon Ski Resort, GW, Korea, Feb 11-14, 2018
- Amlan Jyoti Choudhury, **Al-Absi, A. A.***, Mangal Sain, Amit Gupta and Hoon Jae Lee " An enhanced user participating authentication framework", to appear in the Proc. Of Sixth International Conference on System Modeling & Advancement in Research Trends (SMART 17), Muradabad, India, Dec 29-30, 2017
- Al-Absi, A. A.**, and Kang, D.-K., "Predicting Human DNA Splicing in Parallel MapReduce using Deep Learning," Nature Biotechnology, Under review.
- Al-Absi, A. A.**, and Kang, D.-K., "Predicting Human DNA Splicing in Parallel MapReduce using Deep Learning," Nature Biotechnology, Under review.
- Al-Absi, A. A.**, and Kang, D.-K., "Processing Large Scale Data-intensive Applications in Parallel Mapreduce Framework in Cloud Platform," International Journal of Cloud Computing, under review.
- Al-Absi, A. A.**, and Kang, D.-K., "Long-read Alignment with Parallel MapReduce Cloud Platform," BioMed Research International, Hindawi Publishing Corporation, ISSN: 2314-6133 (Print), ISSN: 2314-6141. (SCIE)
- Al-Absi, A. A.**, and Kang, D.-K., "PCMR: MapReduce based Parallel Computation Model for Big Data Applications in Cloud Environments," Proceedings of the 6th Annual International Conference on ICT: Big Data, Cloud and Security (ICT-BDCS), Singapore, Singapore, July 27-28, 2015.
- Al-Absi, A. A.**, and Kang, D.-K., "A Novel Parallel Computation Model with Efficient Local Memory Management for Data-intensive Applications," Proceedings of The 8th IEEE International Conference on Cloud Computing (IEEE CLOUD 2015), New York, USA, June 27 - July 2, 2015. **(BK21+ Computer Science IF 1.0, Code#: BKCS0132) (Acceptance Rate: 15%)**
- Al-Absi, A. A.**, and Kang, D.-K., "Enhancing Dataset Processing in Hadoop YARN Performance for Big Data Applications," Proceedings of The 10th International Conference on Future Information Technology (FutureTech 2015), Hanoi, Vietnam, May 18-20, 2015.
- Al-Absi, A. A.**, and Kang, D.-K., "Efficient Memory Utilization on Hadoop MapReduce using Data Reduction," Proceedings of The 13th IEEE/ACIS International Conference on Software

Engineering Research, Management and Applications (SERA 2015), Hammamet, Tunisia, May 13-15, 2015.

Xiang, Z.-L., Yu X.-R., **Al-Absi, A. A.**, and Kang, D.-K "Naive Bayes Approach in Kernel Density Estimation," Electronic & Information Research Information Center (EIRIC), 18(01):0076 - 0078 (2014. 05)

Al-Absi, A. A., and Kang, D.-K., "Relational Database Normalization Algorithm: A TAM Database Analyst Technique," Information Journal, 17(7A):3223-3228, July 2014, International Information Institute, ISSN 1344-8994. (SCOPUS)

Al-Absi, A. A., and Kang, D.-K., "Prototype of Benchmarking on Database Normalization Technique," Proceedings of the 2nd Embedded and Ubiquitous 2013 Workshop, Jeju Island, Korea, Dec. 11-13, 2013.

Ameer, D.A.H.A.; **Al-Absi, Ahmed .A.**; Mohammed, A.O.; Habbal, A.M.M.; Hassan, S. "Anywhere On-Keyboard Password technique" IEEE Student Conference on Research and Development (SCOREd 2010), 13 - 14 Dec 2010, Putrajaya, Malaysia 159- 163

PROFESSIONAL ACTIVITIES

- International Technical Committee Member of International Conference on Computing and Informatics
- Journal Reviewer: Journal of Communication and Computer, IEEE's Transactions on Cloud Computing
- Member of Internet Society- Malaysia Chapter
- Member of European Alliance for Innovation (EAI)
- Member of The Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (ICST)
- ICoSET & ICoSEEH (Indonesia) Technical Program Committee:
<http://conference.uir.ac.id/wb/pg/article/committee/detail/1912>
- ADVISORY BOARD and International Technical Committee for icoci, 2017 (Malaysia):
<http://www.icoci.cms.net.my/icoci2017/list.asp#reviewers>

REFERENCES

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