

DR. MAHAMAT ISSA HASSAN

1. PERSONAL DETAILS

- **Date of birth:** 15th September 1982
- **Citizenship:** Chadian
- **Passport NO:** R0118927 (expiry: 15 Jun 2015)
- **Family status:** Married, with 5-year-old son, 3.5-year-old daughter and 1-year-old son



2. CONTACT

- **Mail** : Faculty of Computer Engineering & Information Technology
University of King Faysal
BP: 581 Ndjamen, Chad
- **Phone:** +235 92895789
- **Skype** : dr.mhtissa
- **E-mail** : mhtissa@gmail.com

3. ACADEMIC BACKGROUND

- **Post-Doctoral Research**, Cloud Computing, The University of Birmingham, 2012-2013, UNITED KINGDOM (UK).
- **Doctor of Philosophy (PhD)** (Information Technology)
Title of the Thesis: *Semantic-Based, Scalable, Decentralized and Dynamic Resource Discovery for Internet-Based Distributed System*, UniversitiTeknologi PETRONASD (UTP), 2008 - 2010, MALAYSIA.
- **Master of Science (MSc)** (Computer Science), UniversitiTeknologi Malaysia, 2005-2007, MALAYSIA.
- **Bachelor of Computer Engineering (BEng)** with honors class, UniversitéRoiFayçal (King Faisal University), 1999-2003, CHAD.

4. PROFESSIONAL MEMBERSHIPS

- International Association of Computer Science and Information Technology (IACSIT).
- The Society of Digital Information and Wireless Communications (SDIWC)

5. PRESENT POSITION

- Senior Lecturer, Faculty of Computer Engineering and Information Technology, UniversitéRoiFayçal (King Faisal University), CHAD
- Academic Visitor, Birmingham University, UK (2012-2013)
- Editor, Journal of Computer Science Letters.

6. COMMUNITY SERVICE

- Member, Consultant council, Union of Chadian Students in MALAYSIA (2012 – now).
- Vice President, Union of Chadian Students in MALAYSIA(2009 –2010).
- Adviser, Chadian Students Committee in UniversitiTeknologi PETRONAS,(2009-2010), MALAYSIA.

7. EXTRA CURRICULAR ACTIVITIES

- Public Relation Executive, Department of Computer and Information Sciences Postgraduate Students' Representatives (2010-2011), UniversitiTeknologi PETRONAS, MALAYSIA.
- Treasurer, International Student Society -UniversitiTeknologi Malaysia, (2005-2006), MALAYSIA.
- Member, Student Representative Council - UniversitéRoiFayçal (King FaisalUniversity),(2000 – 2002), CHAD.

8. WORK EXPERIENCE

- Manager and Research Fellow of Mission Oriented Research (Intelligent Cities), UniversitiTeknologi PETRONAS, MALAYSIA, 2010-2012.
- Senior Lecturer, Faculty of Computer Engineering and Information Technology, UniversitéRoiFayçal (King Faisal University), CHAD, 2007-Now.
- Tutor for some computer science subjects such as Discrete Mathematic, Structured Programming, and Object Oriented Programming, Department of Computer and Information Sciences,UniversitiTeknologi PETRONAS, MALAYSIA, 2008-2010.
- IT Consulter,Department of Human Resource - Ministry of Education (CHAD), 2007-2008.
- Tutor, Faculty of Computer Engineering and Information Technology, UniversitéRoiFayçal (King Faisal University), CHAD, 2003-2005.
- ITTrainer,Centre Al-Madina Al-Munawara pour le Formation, CHAD, 2002-2005.

- Computer Technician, MicroComputer Center, CHAD, 2004.

9. COURSES TAUGHT

- | | |
|---|--------------------------------------|
| 1) Technical Drawing | 4) Microprocessor |
| 2) Control and Interfacing | 5) Internet Application |
| 3) Computer Organization & Architecture | 6) Object Oriented Programming |
| | 7) Struct Programming & Database Sys |

10. COURSES TUTORED

- 1) Discrete Mathematic
- 2) Structured Programming
- 3) Object Oriented Programming

11. FIELD OF SPECIALIZATION

- Pervasive Computing

12. RESEARCH INTERESTS

- | | |
|--|---------------------------------|
| • Peer to Peer, Grid & Cloud Computing | • Data Mining |
| • Green Computing | • The use of ICT in development |
| • Semantic Web | • Sensor Network |

13. PUBLICATIONS

▪ JOURNALS :

1. **M. I. Hassan** Semantic Technology and Super-peer Architecture for Internet Based Distributed System Resource Discovery, *International Journal of New Computer Architectures and Their Applications*, Vol. 1, issue 2, 2011.
2. **M. I. Hassan** and A. Abdullah, A New Grid Resource Discovery Framework, *International Arab Journal of Information Technology*, volume 8, issue 1, 2011.
3. **M. I. Hassan** and A. Abdullah, A Semantic Description and Registration Framework for Large Grid Resource Discovery Systems." *Journal of Computer Science Letters*, volume 1, issue 1, 2009.

▪ **CONFERENCE :**

1. V. Ponnusamy, **M. I. Hassan**, L. T. Jung and T. Ramachandran, A Prototype for Intrusion Detection System using Motion Sensors and ZigBee, *The 7th International Conference on Ubiquitous Information Management and Communication(ICUIMC'13)*, Kota Kinabalu, Malaysia.
2. H. R. Al-Absi, A. Abdullah and **M. I. Hassan**, Soft Computing in Medical Diagnostic Applications: a Review, *The National Postgraduate Conference (NPC2011)*, CIS016, 2011, Tronoh, Malaysia.
3. M. I. Nordin, A. Abdullah and **M. I. Hassan**, Cloud Resource Broker in the Optimization of Medical Image Retrieval System: A proposed goal-goal based request in medical application, *The National Postgraduate Conference (NPC 2011)*, CIS028, 2011, Tronoh, Malaysia.
4. H. R. Al-Absi, A. Abdullah and **M. I. Hassan**, Hybrid Intelligent System for Disease Diagnosis based on Artificial Neural Networks, Fuzzy Logic, and Genetic Algorithms, *The International Conference on Informatics Engineering & Information Science (ICIEIS2011)*, Part II, CCIS 252, pp. 128–139, 2011, Sukudai, Malaysia.
5. **M. I. Hassan** and A. Abdullah, A Semantic Service Discovery Framework for Intergrid, *The Second International Conference on Software Engineering and Computer Systems*, to be appeared in volume 179 of the Communications in Computer and Information Science series (Springer), Kuantan, Malaysia.
6. M. I. Nordin, A. Abdullah, and **M.I. Hassan**, Goal-Based Cloud Broker for Medical Informatics Application A proposed goal-based request and selection strategy, *Proceedings of The 2011 International Conference on Telecom Technology and Applications (ICTTA 2011)*, volume 5, pp35-41.
7. **M. I. Hassan** and A. Abdullah, Semantic-Based Grid Resource Discovery Systems: A literature review and taxonomy, *Proceedings The 4th International Symposium on Information Technology (ITSim 2010)*, IEEE Computer Society, volume 3, pp 1286-1297, Kuala Lumpur - MALAYSIA, 2010.
8. **M. I. Hassan** and A. Abdullah, Semantic-Based Scalable Decentralized Resource Discovery, *Proceedings National Postgraduate Conference (NPC 2009)*, NO. 194, ID CIS042, Tronoh, Malaysia, 2009.
9. **M. I. Hassan** and A. Abdullah, Semantic-Based Scalable Decentralized Grid Resource Discovery, *The 2009 International Conference on e-Technology (e-Tech 2009)*, pp 3016-3024, SINGAPORE, 2009.

10. **M. I. Hassan** and A. Abdullah, Scalable Self-Organizing Model for Grid Resource Discovery, *International Conference on Network Applications, Protocols and Services (NetApp2008)*, Kedah - MALAYSIA, 2008.
11. **M. I. Hassan** and A. Abdullah, Self-organizing Grid resource discovery, *Proceedings International Symposium on Information Technology (ITSim 2008)*, IEEE Computer Society, pp 1 – 4, Kuala Lumpur - MALAYSIA, 2008.

14. SECURED RESEARCH GRANT

1. *Exploring Animal Behavior for Self-Healing Routing Protocols in Wireless Sensor Network*, (USD24000), Member, Jul.2012-Jun.14, Exploratory Research Grant Scheme (ERGS), Ministry of Higher Education (MOHE), Malaysia.
2. Under the Cloud: A Distributed Data Management Framework for New Breeds of Cloud-Based Applications,(USD12000), Member, Feb.2012-Aug.2013, University Research Internal Fund (URIF), UniversitiTeknologi PETRONAS.
3. Key Performance Indicator Framework for Digital Lifestyle Malaysia (DLM), (USD30000) Member, Jan – April 2012, Contract Research, Malaysian Communications and Multimedia Commission (MCMC).

15. AWARDS

| Name of Award/Prize | Awarding Body | Date conferred |
|--|--|----------------|
| UniversitéRoiFayçal (King Faisal University) High Achievement Award | UniversitéRoiFayçal (King Faisal University) | Oct 2012 |
| Silver Medal - Cloud based collaborative medical diagnostic system (MedCloud) | 39th Salon International Inventions ,2011 | Apr 2011 |
| Silver Medal - Collaborative Clinical Medical Diagnostic Ecosystem in Cloud (Medcloud) | Malaysia Technology Expo (MTE 2011) | Feb2011 |

16. SCHOLARSHIP / FELLOWSHIP

- [IDB Merit Scholarship Programme for High Technology](#) (2011)
- [UniversitiTeknologi PETRONAS Graduate Assistantship Scheme \(GA\)](#) (2008)
- [M.Sc Scholarship Programme in Science and Technology for IDB Least Developed Member Countries](#), (2004)

17. Training

1. TRIZ Level 1 (Theory of Inventive Problem Solving), Malaysian TRIZ Innovation Association, Tronoh, Malaysia, 2012.
2. Computer Hacking Forensics Investigation, Prosper Solutions Sdn, Tronoh, Malaysia, 2011.
3. Ethical Hacking, Prosper Solutions Sdn, Tronoh, Malaysia, 2011.
4. Neural Network Applications with NeuroSolutions, TRITY TECHNOLOGIES, Tronoh, Malaysia, 2010.
5. Managing Cultural Differences Seminar, PETRONAS Management Training (PERMATA)& Collaboration with UTP International Students Unit, Tronoh, Malaysia, 2010.
6. Excellent Report Writing with LATEX typesetting, TRITY TECHNOLOGIES, 2010.
7. MPI & Grid Computing Hands – On Workshop, Computer & Information Sciences Dept – Universiti Teknologi PETRONAS and IBM, Tronoh, MALAYSIA, 2009.
8. NS-2 and OMNeT++ Tutorials, InterNetWorks Research Group Universiti Utara Malaysia, Kedah - MALAYSIA, 2008.
9. Visual C++ Programming Training, School of Graduate Studies – Universiti Teknologi Malaysia, Sukudai, MALAYSIA, 2006.
10. Public Speaking Workshop, International Islamic University Malaysia, Kuala Lumpur, MALAYSIA, 2005.
11. First aid training, Chadian Medical Association, N'Djamena, CHAD, 2002.

18. Language Skills :

- Arabic
- English
- French
- Malay (basics)