

## **CURRICULUM VITAE**

### **CONTACT INFORMATION**

**Name:** Dr.Ibrahim Khider Eltahir Khider

**Current Address:**

Sudan University of Science and Technology  
College of Engineering,  
Department of Electronics  
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### **PERSONAL INFORMATION**

**Date of Birth:** 1974

**Place of birth:** Elhasaheisa

**Citizenship:** Sudan

**Sex:** Male

**Marital Status:** Married

**Rank:** Assistant Professor

### **EMPLOYMENT HISTORY and PROFESSIONAL EXPERIENCE**

- Head of Communication Engineering Department, Electronics Engineering, Sudan University of science and Technology.

-Teaching at Sudan university, Dept of electronics from august 2000 up to Now.

### **Courses Taught:**

- Analogue Electronics Circuits.
- Digital Electronics Circuits and Sequential Circuits Design.
- Electronic measurements devices.
- Microprocessors Systems.
- Real time systems.
- Electromagnetic fields.
- Analogue and Digital Communication.
- Microwave Systems.
- Antenna and propagation.
- Radar Systems.
- Data Communication
- Computer networks
- Electronics Communication.
- Digital Signal Processing.
- Digital Image Processing.
- Satellite Communication,
- Wireless Networks Systems (mobile and ad hoc).
- optical fiber communication,
- Communication Systems.
- Communication networks and Switching.
- Telephone network, ISDN, DSL, CATV.
- Computer Applications (Pascal ,C,C++,Java)

- **Projects Supervisor (M.Sc, B.Sc and Diploma students).**

**Teaching and projects supervision as Part time at the following universities and colleges:**

From July 2002 to 2005	Lecturer	Juba University
From May 2002 to May 2011	Lecturer and projects supervisor	Blue Nile University
August 2004	Supervisor final year project	Elnelein University-college of science
July 2004	Supervisor final year project	international African university, college of computer science
From October 2009 to May 2011	Lecturer and projects supervisor	Bayan College for Science and Technology
From October 2009 to October 2011	Assistant professor and projects supervisor	Almanhal Academy for Science

❖ **Total Teaching experience: 12 years**

**EDUCATION and PROFESSIONAL QUALIFICATIONS**

**B.Sc (Honour) with first class in Electronics Engineering, Sudan University of science and technology May 1999.**

**Major Courses in B.SC Program:**

Basic Electronics, Microprocessor Based System.  
 Communication Engineering.  
 Electromagnetic wave.  
 Analogue and Digital Electronics.  
 Digital Signals Processing.  
 Measure and Data Aquisit.  
 Sequential Circuit Design.  
 Operating Systems.  
 Computer Architecture.  
 Computer Networks.  
 Satellite Communication.  
 Microwave Engineering.  
 Computer programming and Application.

**M.Sc in Telecommunication Engineering, Karary university, May 2002.**

**Thesis title: “JAVA APPLICATION PROGRAMMING INTERFACES FOR INTEGRATED NETWORKS “.**

**Major courses In M.Sc Program:**

Computer Networks.  
 Satellite Communication.  
 Optical Fiber.  
 Real-time System.  
 Digital Signals and Image Processing.  
 Engineering mathmetics.  
 Computer Application.

**PhD, Telecommunication Engineering, 2008. Huazhong University of science and**

**technology-China**

**Dissertation title: “STUDIES AND INVESTIGATION ON AN INTEGRATED MOBILITY MODELS FOR MOBILE ADHOC NETWORK IN URBAN AREA “.**

**Major Courses In PhD program:**

Mobile Communication.  
Ad hoc networks.  
Computer Networks.  
Computer Network Security.  
Java pattern design.

**Computer Skills:**

Knowledge in programming Languages: pascal, basic,C, Java, Intel Family Assembly.  
Knowledge in Matlab.  
Knowledge in Network tools: Network Simulator Version-2 (NS-2).  
Knowledge in Microsoft office (word, excel, access and power point).

**Languages**

- Arabic.
- English.
- Chinese.

**Training Courses**

.Training in Atomic Energy Research Institute in the following topics ,Analogue and Digital electronic circuits design, Printed Circuits Board(BCP)design, Some electronics Computer aided design software like: electronic workbench, Smart, Orcad, September 1997 ---October 1997

.Practical Course in C-language programming December 1997.

.Practical Course in Active Server Page (ASP) and HTML December 1999.

.Practical Course in Java-language programming April 2000.

**Educational Preparation Courses program at Staff development centre university of Khartoum include the following subjects:**

- Philosophy and development of higher education.
- Distance education.
- Teaching methods.
- Technological skill in university teaching.
- Assessment and evaluation in higher education.
- Counselling and guidance.
- University educational systems.
- Principles of curriculum development in higher education.
- Educational psychology.
- Research methods.
- The legislations of higher education.
- Quality and assurance in higher education.
- University of administration.
- Educational functions of the university.
- Teaching ethics.
- Training in higher education.
- Scientific writing.
- Micro-teaching.

**Awards and Grants**

Sudanese Government Scholarship 2005 to 2009.

Hubei province government Scholarship china 2006.

## **PUBLICATIONS**

### **A. Journal Articles**

- Ibrahim Khider, Prof Wang Furong, Prof Yin Wei Hua and Sacko, “Study on Indoor and outdoor environment for Mobile Adhoc Network: Random Waypoint and Manhattan Mobility Model”, UBICC Journal Volume2 NO.1, 2007.
- Ibrahim Khider, Prof Wang Furong, Prof Yin Wei Hua and Sacko, “Geographic Restriction Mobility Models:Asurvey”, Journal of Applied Sciences 7(3), 2007.
- Ibrahim Khider, Prof Wang Furong, Prof Yin WeiHua,A.SAAD ,”STUDY ON AN INTEGRATED MOBILITY MODEL FOR MOBILE AD-HOC NETWORKS IN URBAN AREAS”, The Mediterranean Journal of Computers and Networks, Volume 4, No. 4, October 2008 ,pp. 175-187.
- Ibrahim Khider, Prof Wang Furong, Prof Yin Wei Hua, “Link analysis on Indoor and outdoor environment for Mobile Adhoc Network using Random Waypoint and Manhattan Mobility Model”, International journal of Advances in Systems Science and Applications Vol.8, No.3,2008.
- Sack Dioub,Wang Furong, Huang Benxiong, Ibrahim Khider,” A Survey of Group Merge and Split Mobility Models”.UBICC Journal Volume.2, No5.2007.
- Sacko Dioub,Wang Furong, Huang Benxiong, Ibrahim Khider,”Dynamic Group Mobility Model for Hybrid Networks”,UBICC,2008.
- Dr.Ibrahim khider, Prof.Wang Furong,Amna Saad,“The effect of two realistic Radio Propagation Models for Mobile Ad hoc NETWORKS in Urban Area Environment Supported with stations”,International Journal of Scientific and Engineering Research ,volume2,issue10,October 2011,France.

### **B. Conference proceedings**

- Ibrahim Khider, Prof Wang Furong, Prof Yin Wei Hua, “Study on Indoor and outdoor environment for Mobile Adhoc Network supported with base stations”, 3rd Wicom, IEEE, Shanghai,China, 21-23 September, 2007.
- Ibrahim Khider,”The Impact of Different Radio Propagation Models for Mobile Ad hoc NETWORKS (MANET) in Urban Area Environment”, The 2nd International Conference on Wireless Broadband and Ultra Wideband Communications,IEEE,Sydney ,Australia ,2007.
- Thazin Ei, Sacko Diouba, Wang Furong, Ibrahim Khider,” Autonomic Group Mobility Model for Mobile Ad hoc Networks”, World Congress on Engineering, U.K., July 2008.
- Ibrahim Khider and Amna Saad,”Open Research Issues in Cognitive radio”, Telecommunications Forum, Belgrad, Serbia, November 2008.
- Peng Zhang, Furong Wang, Lai Tu, Sacko Diouba, Ibrahim Khider, “Opportunistic Virtual Antenna Arrays with Optimal Relay Mobile Terminals Selection”, 4<sup>th</sup> Wicom, IEEE, Dalian, China, 12-17October 2008.
- Ibrahim Khider, amna saad , Prof Wang Furong, “Link analysis on Indoor and outdoor environment for Mobile Adhoc Network supported with base stations”, International conference for telecommunications ,King Saudi Arabia , Riyadh, January 2010.

- Ibrahim Khider, Salah Elfaki, Laila Ibrahim, Albedeir Yaseen ,“The High Efficiency of Slotted optical time division multiplexing”,ICECE ,IEEE,Yichang,china ,16-18 september 2011.
- Ibrahim Khider, Salah Elfaki, Mohamed Elhassan,Mona Siddig, “Evaluate the performance of Internet Protocol Television” ICECE , IEEE,Yichang,china , September 2011.
- Salah Elfaki,Ibrahim khider, ,Mohamed Omer, Fatima Al-Momen, Alaa Abdullah,”Evaluation of Bit Error Rate in WLAN IEEE 802.11a with Radio over Fiber downlink system”, 8th International Conference HONET,IEEE, King Saudi Arabia, Riyadh ,December 2011

### **RECENT PRESENTATIONS**

- Introduction to network simulator version 2, Communication Software and Switch Research Centre, Huazhong university of science and technology, November2008.
- The role of IEEE in the development of technology in Sudan, NTC, October 2011.

### **BOOKs Chapter under submission**

Cognitive radio Techniques: **under review**

Theory and application for Adhoc network: **accepted for publication**

### **PROFESSIONAL MEMBERSHIPS**

- IEEE membership.
- IEEE communications Society membership.
- IEEE Robotics and automation Society membership.
- Sudanese Engineering Association.
- Sudanese Engineering Council.
- Arab Computer Society, Doha, Qatar.
- Java Application Programming for Integrated Networks (Sun Microsystem.).
- International Association of Engineers (IAENG), Hong Kong.
- Group Research Member in Electronic Systems Research Centre ,Sudan University of Science and Technology

### **EDITORIAL ACTIVITIES**

Invited reviewer, Computer Communication Journal (Elsevier),UK.

Invited reviewer, Wicom Conference, IEEE,china.

Invited reviewer, ICC Conference, IEEE,china

Advisory Committees, International Conference on Robotic Automation System ,Malaysia.

Associate Editor , International Journal of Wireless Communication, India.

Editor, MASAUM Journal Of Computer Science, New Jercy,USA.  
Technical Editor, Information Technology Journal , USA.  
Editor, Journal of applied sciences , USA.  
Committee member for Assessment and evaluation at electronics Dept  
Committee member for curriculum development in under graduate and post graduate programme.

### **PROFESSIONAL RESEATCH INTERESTS**

- Mobile, Wireless and wired distributed systems and networking.
- Digital Signal Processing, Digital image Processing and Data Communication.
- Cooperative wireless networks, wireless mesh networks and Cognitive radio.
- Vehicular mobile Ad hoc NETworks and mobility models design.
- Multimedia over Wireless Networks
- Network coding in communication networks

### **PROFESSIONAL REFERENCES**

#### **1-Prof.Dr. Wang Furong**

Electronics and Information Engineering Department  
Huazhong University of science and Technology  
Wuhan, 430074, Hubei, P.R.China  
E\_mail: [wangfurong@mail.hust.edu.cn](mailto:wangfurong@mail.hust.edu.cn)

#### **2- Prof.Dr.Huang Benxiong**

Communication Software and Switch Research Centre  
Electronics and Information Engineering Department  
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Wuhan, 430074, Hubei, P.R.China  
E\_mail: [huangbx@mail.hust.edu.cn](mailto:huangbx@mail.hust.edu.cn)

#### **3- Prof.Dr.Liu Wenyu**

Associate dean ,Electronics and Information Engineering Department  
Director of Wireless Communication and Multimedia System Research Centre  
Huazhong University of science and Technology  
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#### **4- Assoc.Prof.Dr. Yin Wei Hua**

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#### **5- Assoc.Prof.Dr. Yahia Abdalla Mohammed**

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