Reben KURDA

Data of Birth: 20/09/1980.
Address: 98 Marina 2, Andazyaran City, Erbil, Kurdistan-Region, Iraq
Mobile: +964 (0) 750 3699727
Email: Reben.Kurda@epu.edu.iq /Rebenkurda@gmail.com
Skype: Reben Girda

Related domains

Wireless Communications, Radio Resource Allocation, Heterogeneous Networks, power adjustment mechanism, mobility prediction, Quality of Service, Interference Mitigation, WiFi offloading. Computer Network Design, Maintenance and Database design. Wireless network setup and troubleshooting. Programming in C++, Mathlab, MySQL, Oracle SQL and Visual Basic.

Education and diplomas

- **October 2012 – March 2015: University of Paris-Sud 11, Laboratoire De recherche Informatique (LRI)-Paris-France:** *PhD.* in Computer Science-Wireless Communication. Thesis title: "Cooperation strategies for Inter-cell interference mitigation in OFDMA system".

- **October 2005 - March 2007: KOYA university (Kurdistan):** *M.Sc.* in computer science (Simulation and Networking Design). Thesis title: "Software simulation fiber optic based LAN for the university of koya". (Standing: Very good).

- **October 1999 - July 2003: College of Commerce, Department of Statistics and Computer, University of Sulaymaniyah:** *B.Sc.* in Science computer.

Academic experiences

❖ **October 2019 until now, Present Job: Erbil Polytechnic University (EPU):**

  ➢ **Lecturer in Information System Engineering Techniques Department, Erbil Technical Engineering College**

❖ **April 2015 – End of September 2019 KOYA university (Kurdistan):**

  ➢ **Lecturer in software engineering department, Faculty of Engineering**
    ▪ Given courses: C programming, Object Oriented Programming in C++, data structures in C++, Visual Basic, Mathlab and computer networking.
    ▪ Supervising graduation projects.

❖ **October 2010 – March 2015: Ph.D. position in LRI/ Paris -Sud University (France).**

  ➢ Thesis title: Cooperation strategies for Inter-cell interference mitigation in OFDMA system.

  ➢ Environments: MATLAB, C++ and Simulations.

  ➢ Contributions:

    ▪ Developing a power control mechanism for interference mitigation in a mobility environment where macrocells and femtocells are co-located together.

- Developing a new mobility-aware e-ICIC scheme for collocated macro-picocells with cell range expansion.
- Enhancing the spectral efficiency in terms of throughput for each macro and small cell users.
- Enhancing and developing the existing physical layer of LTE-Sim Simulator for a realistic residential Macro-Femtocell scenario.
- Rewriting the LTE-Sim Simulator for supporting a residential macro-picocell scenario (including all the specification of LTE-A networks such as AMC scheme, Channel Quality Indicator feedback, frequency reuse techniques, and models for physical layer).
- Comparison of the developed system results with the ones of standard method and power mitigated methods.
- Writing scientific documents in English.

❖ **October 2007 – November 2009 KOYA university (Kurdistan)**:

✓ **Instructor in software engineering department:**

➢ Given courses: C programing, Object Oriented Programing in C++, data structures in C++, Visual Basic, Mathlab and computer networking.

➢ Supervising graduation projects.

✓ **Faculty computer network administrator.**

✓ **Member of CISCO Lab.**

❖ **Mars 2003 - June 2007: Technical Assistant in Rashed Bank, Ranya- Sulaymaniyah-IRAQ,**

✓ **Computerizing Records**

✓ **Maintenance of computer network.**

Skills

- **Programming:** OOP in C++, C, MATLAB, Visual Basic, MySQL.
- **Operating systems:** Windows, OS, Linux, Ubuntu.
- **Computer networking:** holding Cisco Certified Network Administrator certificate (CCNA).
- **Other:** Microsoft Office Package especially MS, Cisco Switches and routers configuration, Wireless network setup and troubleshooting.

PUBLICATIONS

- R. Kurda, L. Boukhatem and T. A. Yahiya, "Interference Mitigation in Mobile Environment through Power Adjustment in Macro and Femto cell Systems", IEEE on Wireless Communications and Networking Systems (WCNC), April 2014.

- R. Kurda, L. Boukhatem, T. A. Yahia and M. Kaneko, "Power adjustment mechanism using context information for interference mitigation in two-tier heterogeneous networks", IEEE Symposium on Computers and Communications (ISCC), June 2014.

- R. Kurda, L. Boukhatem, M. Kaneko and T. A. Yahia, "Mobility-Aware Dynamic Inter-Cell Interference Coordination in HetNets with Cell Range Expansion", IEEE 24th Annual International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC), Sept. 2014.

- R. Kurda, T.A. Yahiya, D. Yiltas-Kaplan and P. Kirci "A cluster based scheme for interference mitigation in mobile macrocell-femtocell networks", IEEE 14th International Conference on ITS Telecommunications (ITST), 2015.

- R. Kurda, L. Boukhatem and M. Kaneko "Femtocell power control methods based on users' context information in two-tier heterogeneous networks", EURASIP Journal on Wireless Communications and Networking, 2015.

- J. Perez-Romero, A. Zalonis, L. Boukhatem, A. Kliks, K. Koutlia, N. Dimitriou, R. Kurda, "On the use of radio environment maps for interference management in heterogeneous networks", IEEE 53 Communications Magazine, 2015.

- H. Hafez, R. Kurda, R. Kurda, B. Al-Hadad, R. Mustafa, B. Ali, "A Critical Review on the Influence of Fine Recycled Aggregates on Technical Performance, Environmental Impact and Cost of Concrete", Applied Science, 2020.

- Reben Kurda, "Heterogeneous networks: "Fair power allocation in LTE-A uplink scenarios", PLoS One Journal. 2021.

- R. Kurda, U. Haje, M.Abdulla, Z.Khalid, "A Review on Security and Privacy Issues in IoT Devices", AJNU. 2022.

- U. Haje, M.Abdulla, R. Kurda, Z.Khalid, "A New Model for Emotions Analysis in Social Network Text Using Ensemble Learning and Deep learning", AJNU. 2022.

- K. HamaAli, M.Abdulla, R. Kurda, "Impact of Attacks on Performance and Energy Consumption in Wireless Sensor Network", 8th IEC2022. 2022.

Languages

- Kurdish (Mother tongue),
- English (Fluent),
- French (Fluent),
- Arabic (Fluent),

References

- Dr. Megumi Kaneko (Assistant professor in Kyoto University), meg@i.kyoto-u.ac.jp

- Dr. Lila Boukhatem (Associate Professor in Université Paris-Sud), Lila.Boukhatem@lri.fr

Hobbies

Football, traveling, reading, swimming, biking, chess.