السيرة الذاتية

Dr.Ali Majeed Mohammed

الجامعة المستنصرية

Mustansiriyah University, School of Engineering

Computer Engineering

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ملخص تعريفي:

A knowledgeable and self motivated Chartered Electronic Engineer with broad range of digital and analogue hardware strengths, and System Level experience. Experience of heterogeneous, homogenous, and circuit simulation, board design, programming in 'C/C++' and various other languages. A broad expertise with various embedded microprocessors and computer systems. My research interests include the power and performance modelling of many-core heterogeneous and homogenous systems using novel architectures, efficient algorithms, and emerging technologies Recognised as an influential team player with good interpersonal and coaching skills and an adaptable, practical and innovative approach to problem solving. Always seeking new challenges, with highly effective communication skills.

الشهادات الدراسية:

- Ph.D. #1: School of Engineering, Electronic and Computer Engineering, Newcastle University, UK
- M.Sc. #2: Electronic Engineering, University of Technology, Baghdad, Iraq
- B.Sc. #3: Electronic and communication Engineering, University of Technology, Baghdad, Iraq

الجوائز والتكريم الأكاديمي

- #1: The best paper awarded in the uSystem research group Newcastle University
- #2: Certificate of Appreciation DFT17 Conference, Cambridge University, Cambridge, UK

الخبرة الأكاديمية والتدريس:

#1: Computer and software engineering department \ Al-Mustansiriya University-Iraq 2000 till now.

#2: School of Electrical and Electronic engineering, Newcastle University, Newcastle Upon Tyne,UK.2014-2019.

#3: : Researcher   2014 – 2018

Organisation: PRIME project

My research work in PRIME project "Power-efficient, Reliable, Many-core Embedded System" was focused on modelling power and performance for many- core heterogeneous system   and investigation of runtime workload classification and management for energy-efficient many-core systems.

أستاذ الدكتور
علي حسين الخفاجي
معاون العميد
للشؤون العلمية والدراسات الع...

أ.م.د.ولاء سعد حسين خلف
رئيس قسم هندسة الحاسوب
٢٠٢١ / ١١ / ٢٨

This project, with the total value of £5.6M, run in the period of 2013-2018 and involved a large consortium of researchers from Universities of Southampton, Newcastle, Manchester and Imperial College London.

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المقررات الدراسية التي تم تدريسها:

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الدراسات الأولية	الدراسات العليا
Computer Control Control Microprocessor design software engineering control system design Electronic circuit system	Supervision on Msc. Project interests include: power/performance of many-cores heterogeneous and homogenous systems using novel architectures efficient algorithms emerging technologies

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الأنتساب المهني او الجمعيات:

- اللجنة الامتحانية
- لجنة ضمان الجودة
- لجنة التحسين
- لجنة المختبرات
- لجنة تطوير المناهج

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Memberships
- **Organization:** IEEE and IET

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المنشورات العلمية

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1. Aalsaud, Ali, Rishad Shafik, Ashur Rafiev, Fie Xia, Sheng Yang, and Alex Yakovlev. "Power–Aware Performance Adaptation of Concurrent Applications in Heterogeneous Many-Core Systems." In Proceedings of the 2016 International Symposium on Low Power Electronics and Design, pp. 368-373. ACM, 2016.

2. Aalsaud, Ali, Ashur Rafiev, Fei Xia, Rishad Shafik, and Alex Yakovlev. "Model-Free Runtime Management of Concurrent Workloads for Energy-Efficient Many-Core Heterogeneous Systems." In 2018 28th International Symposium on Power and Timing Modelling, Optimization and Simulation (PATMOS), pp. 206-213. IEEE, 2018.

3. Aalsaud, Ali, Haider Alrudainv, Rishad Shafik, Fei Xia, and Alex Yakovlev. "MEMS-Based Runtime Idle Energy Minimization for Bursty Workloads in Heterogeneous Many-Core Systems." In 2018 28th International Symposium on Power and Timing Modelling, Optimization and Simulation (PATMOS), pp. 198-205. IEEE, 2018.

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علي جبار
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للشؤون العلمية والدراسات ال

أ. د. ولاء محمد حسين خليل
رئيس قسم هندسة الحاسوب
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4. Aalsaud, Ali, Ashur Rafiev, Fei Xia, Rishad Shafik, and Alex Yakovlev. "Reduced-Complexity Runtime Management of Concurrent Workloads for Energy-Efficient Many-Core Systems." Journal paper under preparation.

5. Gensh, Rem, Ali Aalsaud, Ashur Rafiev, Fei Xia, Alexei Iliasov, Alexander Romanovsky, and Alex Yakovlev. Experiments with odroid-xu3 board. Newcastle University, Computing Science, 2015.

6. Ali Aalsaud, Fei Xia, Ashur Rafiev, Rishad Shafik, Alexander Romanovsky, Alex Yakovlev, Low-Complexity Run-time Management of Concurrent Workloads for Energy-Efficient Multi-Core Systems, Journal of Low Power Electronics and Applications, 2020.

I also contributed in the following works:

1. Xia, Fei, Ashur Rafiev, Ali Aalsaud, Mohammed Al-Hayanni, James Davis, Joshua Levine, Andrey Mokhov et al. "Voltage, Throughput, Power, Reliability, and Multicore Scaling." Computer 50, no. 8 (2017): 34-45.

2. Rafiev, Aashur, Fei Xia, Alexei Iliasov, Rem Gensh, Ali Aalsaud, Alexander Romanovsky, and Alex Yakovlev. "Order graphs and plication of Concurrency to System Design (ACSD), 2015 15th International Conference on, pp. 110-119. IEEE, 2015.

3. Rafiev, Ashur, F. Xia, Alexei Iliasov, Rem Gensh, Ali Aalsaud, Alexander Romanovsky, and Alexandre Yakovlev. "Selective abstraction and stochastic methods for scalable power modelling of heterogeneous systems." In Specification and Design Languages (FDL), 2016 Forum on, pp. 1-7. IEEE, 2016.

4. Rafiev, Ashur, Andrey Mokhov, Fei Xia, Alexei Iliasov, Rem Gensh, Ali Aalsaud, Alexander Romanovsky, and Alex Yakovlev. "Resource-Driven Modelling for Managing Model Fidelity." In Model-Implementation Fidelity in Cyber Physical System Design,

pp. 25-55. Springer, Cham, 2017.

5. Romanovsky, Alexander, and Alex Yakovlev. "Power-proportional modelling fidelity Ashur Rafiev, Fei Xia, Alexei Iliasov, Rem Gensh, Ali Aalsaud." (2015).

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أ. د. ولاء محمد حسن خلف
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۲۰۲۱ / ۱۱ / ۲۸

Key Skills

Hardware	ARM Cortex A7-A15, Intel i7, Various embedded microprocessors.
Other H/W	Power Line Comms (PLC), Channel Coding, Data Compression, Data Storage Techniques.
Software	Embedded and stand alone C, C++, Basic, Matlab, Assemblers
System OS's	Linux (expert user), Windows.
Applications	Linux scripting, MS Office, Project.

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رئيس قسم هندسة الحاسوب
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