Dr. Samer Arandi

Computer Engineering Department, An-Najah National University, Nablus, Palestine
Tel: 970 9 2345113 ext 2053. E-mail: arandi@najah.edu

CURRENT POSITION

Assistant Professor - Computer Engineering Department, An-Najah National University, September 2011 – Present

EDUCATION

- **University of Cyprus – Cyprus**
  PhD. in Computer Science [Jan/2007 - Nov/2011]
  Area: Computer Architecture - Parallel & Distributed Systems and Dataflow Concurrency

- **Imperial College – London**
  MSc. Advanced Computing [Sep/2005 - Sep/2006]
  Spec.: Software Engineering - Graduated with Distinction

- **An-Najah National University – Nablus**
  Bachelor of Science / Computer Engineering [June - 2004]
  GPA: 90.9 % (Distinction)

WORK EXPERIENCE

Academic:

- **Sep [20011] – Present: An-Najah National University – Computer Engineering Dep.**
  - **Assistant Professor**

- **Dec [2010] – Sep[2011] – TERAFLUX:** Exploiting Dataflow Parallelism in Teradevice Computing **–** European Commission's **FP7** IST program
  - **Researcher – University of Cyprus Team**

- **Dec [2007] – Dec [2010]: University of Cyprus – Computer Science Depart. – DDM Group**
  - **Research Assistant**

- **August [2004] – Sep[2005]   An-Najah National University**
  - **IT Center Supervisor**   -   **Teaching Assistant**

Professional/Entrepreneurial:

- **July [2012] – Palestine Programming Olympiad (PPO)**
  PPO Committee: Co-organized and refereed the first Palestine Programming Olympiad - a 24-hours programming competition on the national level in the style of the IEEExtreme.

- **March [2011] - Startup Weekend.**
  Main Organizer: Organized Startup Weekend Nablus Event - a 54 hours event where developers, graphics designers, marketers & managers assemble to share ideas, form teams, build projects and launch startups.

- **August[2004] – Sep[2005] ManarahNet Modern Software Co.**
  Lead programmer: Developing educational software. Overall design, software security & IVR systems.

- **June [2005] – Sep[2005] An-Najah National University**
  ICC development Team: developing home-grown PHP based WebCT-like system for the university

Related Skills: Programming Languages and API's

- C/C++ (experienced)
- Java   (experienced)
- Prolog (good)
- PHP   (very good)
- Win32 API / MFC (very good)
- Android (very good)

- Intel 16/32 assembly (experienced)
- Microchip PIC assembly (very good)
- MIPS assembly   (very good)
- Unix System programming (very good)
- DirectX (very good)

TRAINING

- MULTIPROG: 4th Workshop on Programmability Issues for Multi-core Computers – HIPEAC'11 – Heraklion - Crete (4 days).
- Integrating Parallelism Throughout the Undergraduate Computing Curriculum Workshop – PACT2009 – Raleigh – North Carolina - USA (4 days)
- 4th HiPEAC Industrial Workshop on Compilers and Architectures, ARM. Ltd. – Cambridge - UK – 2007 (3 days).
- The Third International Summer School on Advanced Computer Architecture and Compilation for Embedded Systems (ACACES) - Italy - 2007 (7 days).

Scholarships & Awards

- **ACM & Microsoft Student Research Competition** – **3rd Place - PACT2009** – Raleigh – North Carolina - USA – 2009

- **Cyprus Research Promotion Foundation (IPE) –** PhD. Funding Scholarship (2008-2010)

- **Hani Qaddumi Scholarship Foundation** –Master Degree Scholarship (2005-2006)

- **Ministry of Education** - Outstanding Graduate Student Award – Palestine (2004)

- **An-Najah University -** Dean's list 2000/2001/2002/2003/2004

Interest Areas:

- **Dataflow Architectures**
- **High-Performance and Concurrency**

- **Parallel and Multi-core Architectures**
- **Compiler Design / Programming Languages**

- **Software Security / Reverse Engineering**

PUBLICATIONS

Conferences & Workshops

- Samer Arandi, George Michael, Costas Kyriacou, and Paraskevas Evripidou. **Combining Compile and Run-time Dependency Resolution in Data-Driven Multithreading.** The First Workshop on Data-Flow Execution Models for Extreme Scale Computing (DFM 2011), Galveston Island, Texas, USA, October 10, 2011, in conjunction with PACT 2011.

- Petros K. Panayi, Zbigniew Chamski, Samer Arandi, George Michael and Paraskevas Evripidou. **Automatic Code Generation for DDM-VM in GCC Using GRAPHITE: A Field Report.** The 3rd International Workshop on GCC Research Opportunities (GROW 2011), April 3, 2011, Chamonix, France (in conjunction with CGO 2011).

- Samer Arandi and Paraskevas Evripidou. **DDM-VMc: the data-drive multithreading virtual machine for the cell processor**. In Proceedings of the 6th International Conference on High Performance and Embedded Architectures and Compilers, HiPEAC '11, pages 25,34, Crete, Jan, 2011.

- Samer Arandi and Paraskevas Evripidou. **Programming multi-core architectures using data-flow techniques**. In SAMOS '10: Proceedings of the 10th International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, Samos, Greece, July 2010.

- Kyriakos Stavrou, Marios Nikolaides, Demos Pavlou, Samer Arandi, Paraskevas Evripidou, Pedro Trancoso: **TFlux: A Portable Platform for Data-Driven Multithreading on Commodity Multicore Systems.** In ICPP '08: Proceedings of the 2008 37th International Conference on Parallel Processing, pages 25{34, Washington, DC, USA, 2008. IEEE Computer Society.

Extended Abstracts

- Samer Arandi, George Michael and Paraskevas Evripidou.
  DDM-VMs: The Data- Driven Multithreading Virtual Machine for Symmetric Multicores. In the Proceedings of the Sixth International Summer School on Advanced Computer Architecture and Compilation for Embedded Systems (ACACES 2010). Pages 275-278.

- Samer Arandi, Kyriakos Stavrou, Pedro Trancoso and Paraskevas Evripidou. "**DDM-Cell: Data-Driven Multithreading on the Cell Processor**". In the Proceedings of the Third International Summer School on Advanced Computer Architecture and Compilation for Embedded Systems (ACACES 2007). Pages 275-278.

Technical Reports

- Samer Arandi and Paraskevas Evripidou**, DDM-VMc:The Data-Driven Multithreading Virtual Machine on the Cell Processor**, University of Cyprus, Tech. Rep. TR-09-1, 2009

- Samer Arandi, Kyriakos Stavrou, Pedro Trancoso, and Paraskevas Evripidou. **TFlux-Cell: Implementing TFluxSoft on the Cell Processor**. Technical Report TR-08-03, Department of Computer Science, University of Cyprus, April, 2008.