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W R M U K Wickramasinghe

Career Goal:

I am working towards a PhD in the field of Artificial Intelligence, where I am researching in Evolutionary Algorithms. I hope to be able to contribute new ideas in optimization methods, which can be used in industrial design problems.

Educational Qualifications:

- Reading for a **Doctoral Degree** in **Computer Science** at **Royal Melbourne Institute of Technology, Australia** (2007 -).
- **Masters Degree** with **Cum Laude** in **Parallel and Distributed Computer Systems** at the **Vrije Universiteit, Amsterdam, the Netherlands** (2004-2006). Master project was a study of Adaptive Distributed Evolutionary Algorithms in a Peer-to-Peer Environment.
- **Bachelors Degree** with **1st Class Honors** in **Computer Science** at the **University of Colombo, Sri Lanka** (1999-2003). Bachelor project was a study of a Genetic/Ant Colony Hybrid Algorithm on a Parallel Computing Environment.

Awards:

- Awarded the **2009 Best student in a Research Program** at the **School of Computer Science and IT, RMIT University, Australia**.
- Awarded the **RMIT University International Scholarship** for the duration of stay of the **Doctoral Degree** in Australia.
- Awarded the **Endeavour International Postgraduate Research Scholarship** from the **Government of Australia** to pursue in a **Doctoral Degree** in Australia.
- Awarded the **V.H. Rutgersfund Scholarship** at the **Vrije Universiteit, Amsterdam, The Netherlands** for the Academic years 2005 and 2006.
- Awarded a **Government Scholarship** to pursue a **Masters Degree** program abroad by **H.E. the President of Sri Lanka**.
- Award for **Computer Science** at the **59th Annual Sri Lanka Association for Advancement of Science Session** in 2004.
- **CINTEC** award for **Best Bachelors Project in Computer Science**, at **University of Colombo, Sri Lanka** in 2003.
- **Mahapola MERIT** award 1999 (awarded for all island high scores at the **GCE (A/L) Examination, Sri Lanka** in 1997).

Publications:

- Upali K Wickramasinghe, Robert Carrese and Xiaodong Li. *Designing Airfoils using a Reference Point based Evolutionary Many-objective Particle Swarm Optimization Algorithm*. Proceedings of the IEEE Congress on Evolutionary Computation (CEC), Barcelona, July 2010.
- Upali K Wickramasinghe and Xiaodong Li. *A Distance Metric for Evolutionary Many-Objective Optimization Algorithms using User-Preferences*. Proceedings of the Australasian Joint Conference on Artificial Intelligence (AI), Melbourne, December 2009.
- Upali K Wickramasinghe and Xiaodong Li. *Using a Distance Metric to Guide PSO Algorithms for Many-Objective Optimization*. Proceedings of the Genetic and Evolutionary Computation Conference (GECCO), Montreal, July 2009.
- Upali K Wickramasinghe and Xiaodong Li. *Choosing leaders for multi-objective PSO algorithms using Differential Evolution*. Proceedings of the Simulated Evolution And Learning Conference (SEAL), Melbourne, December 2008.
- Upali K Wickramasinghe and Xiaodong Li. *Integrating User Preferences with Particle Swarms for Multi-objective Optimization*. Proceedings of the Genetic and Evolutionary Computation Conference (GECCO), Atlanta, July 2008.
- W R M U K Wickramasinghe, M van Steen and A E Eiben. *Peer-to-Peer Evolutionary Algorithms with Adaptive Autonomous Selection*. Proceedings of the Genetic and Evolutionary Computation Conference (GECCO), London, July 2007.
- W R M U K Wickramasinghe and D N Ranasinghe. *Hybrid Ant Colonies for Parallel Algorithms*. Proceedings of the 5th International IT Conference (IITC), Colombo, September 2003.

Other professional activities:

- PC member of the Australasian Joint Conference on Artificial Intelligence (AI'10), Adelaide, December 2010.
- PC member of the Australasian Joint Conference on Artificial Intelligence (AI'09), Melbourne, December 2009.
- PC member of the Simulated Evolution And Learning Conference (SEAL'09), Melbourne, December 2008.

Work Experience:

- Tutor and lab assistant for COSC2404/2405 - Database Administration (Semester 2), at RMIT (2008) and (2009).
- Lecturer for COSC1290/1295 - Java for Programmers (Summer Semester), at RMIT (2009) and (2010). Tutor and lab assistant for COSC1290/1295 - Java for Programmers (Semester 1), at RMIT (2009).
- Tutor and lab assistant for COSC1092/1093 - Scripting Language Programming (Semester 1), at RMIT (2008), (2009) and (2010).

- Lab assistant for COSC1170/1171 - Foundations Distributed Computing, COSC1195/1197 - Intro to Distributed Systems (Semester 1), at RMIT (2008).
- Tutor for ISYS1055 - Database Concepts (Semester 2), at RMIT (2008). Tutor and lab assistant for ISYS1055 - Database Concepts (Semester 2), at RMIT (2007).
- Probationary Lecturer at University of Colombo School of Computing, Sri Lanka. I lectured Computer Systems (2007).
- Visiting lecturer for Secure Languages and Network Application Development for the Informatics Institute of Technology, Sri Lanka (2006)
- Teaching Assistant for the subjects of Scientific Visualization and Computer Networks at the Vrije Universiteit, Amsterdam, the Netherlands (2004 - 2006).
- Assistant Lecturer at University of Colombo School of Computing, Sri Lanka. I lectured Network Technologies (2003 - 2004).
- Instructor at University of Colombo School of Computing, Sri Lanka (2003).
- Visiting Lecturer for Distributed and Parallel Systems for the British Computer Society Professional Graduate Diploma course at IDM Teaching Institute, Sri Lanka (2003-2004).
- Industrial Placement at Sri Lanka Telecom for three months. I was working in the IP and Broadband Section, which was dealing with ISDN, ADSL and IP-VPN (2003).

Other Skills:

- Able to work as a team player while communicating with clients and organization staff successfully.
- Client-Server programming with **PHP** and **ASP** with handling of databases as **MySQL** and **SQL Server**. I have experience with building Web Based Systems on **Windows/Linux Apache MySQL PHP**.
- Web development with **HTML, JavaScript & Flash**.
- CGI programming on **Perl, C & Java**.
- Familiar with **Python, Perl, C, C++ & Java**.
- System Development using **Visual Basic & MS-Access/SQL Server**.
- Familiar in working on **UNIX, OS400** and all **Windows** platforms.
- Familiar with 2D graphics, 3D animation and Audio Visual Software.

Interests and Hobbies:

- I have a keen interest in photography and this is one of my main hobbies. Some of my work can be seen at http://www.flickr.com/photos/upali_jayani2/.
- Swimming is my main sport of interest, where I participated in Inter-House swimming meets in School and Inter-Faculty meets in the University.
- Basketball is one of the team games I enjoy playing.
- Music and films are my main means of recreation.

Personal Information:

- **Name:** Wickramasinghe Rajapaksa Mudiyanseelage Upali Kumara Wickramasinghe.
- **Date of Birth:** 25th August 1978 **Age:** 31 Years
- **Sex:** Male **Marital Status:** Married

W R M U K Wickramasinghe
Date: 5 May 2010.