# Dr. Suraj Pandey

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## Research Interest

**Compute and Data Intensive Applications**
Data Intensive Applications, Task/Data Scheduling, Data Retrieval Techniques, Service Oriented Architectures, Autonomic Middleware Services, Elastic Computing, Distributed Computing Paradigms (Cluster, Grid, and Cloud).

## Education

***PhD* in Computer Science & Software Engineering – December 2010**
**Institution: University of Melbourne, Melbourne, Australia**
Thesis: Scheduling and Management of Data Intensive Application Workflows in Grid and Cloud Computing Environments
Advisor: Professor Rajkumar Buyya

***Masters* in Computer Science & Information Engineering – February 2007**
**Institution: Inha University, Incheon, South Korea**
Minor Thesis: Power-Aware Query Processing Using Optimized Distributed R-tree in Sensor Networks
Advisor: Professor Hae-Young Bae
GPA : 4.39/4.50 (**Excellent Graduate Award**)

***Bachelors* Degree in Computer Engineering – August 2003**
**Institution: Institute of Engineering (IOE), Tribhuvan University, Kathmandu, Nepal.**
Final Year Project Title : "WRCP: Web-based Remote Computer Access Program."
Advisor: Mr. Tika Upreti
Percentage : 82.6 % (Distinction)

## Professional Software Engineer, Research Fellow

**CSIRO ICT Centre HQ, Marsfield, NSW** (Aug. 2011 - Present)
***Research Fellow***

- Prediction techniques for Business Process Management (External Client)
- Prototype system design, implementation, and demonstration (External Client)
- Elastic production system administration for the Social network project (External Client)
- Availability of data services in distributed computing settings and Cloud deployment

**University of Melbourne, Parkville, VIC** (Jan. 2011 - Jul-2011)
***Post-doctoral Research Fellow***

- LIGO Australia Project - Design, Implement, and demonstrate a prototype system on Clouds
- Autonomic Management of PaaS services for scalable execution of data intensive applications on Clouds
- Assistant Lecturer for Subject: *433-678: Cluster and Grid Computing* for Masters Level students

**Manjrasoft/University of Melbourne** (2008-2010)
***Research Assistant, Software Developer/IT Consultant***

- Scaling Data Intensive e-Science Applications using Cloud Platforms
- Experimented real application (fMRI, ECG, data mining) on Clusters, Grid'5000, and Amazon Cloud
- Designed and developed back-filling based scheduling algorithm for Manjrasoft's Aneka
- Created programmer's documentation on components of Aneka
- Designed plugins for Aneka to work with Amazon EC2 and workflow engine
- Designed and developed Manjrasoft's website.
- Administering HPC clusters and servers at CLOUDS Lab, The University of Melbourne
- Supervised student projects on Clouds (design and implementation)

**Self Employed** (Jun. 2007 - Present)
***Maths Tutor***

- Privately tutor Specialist Mathematics I & II, General Maths, Maths Methods I & II.
- All students secured high marks in their final exams (Parents' references available)

**Intelligent GIS Research Center, Dblab, South Korea** (2005-2007)
***Researcher/Software Developer***

- Implemented Hybrid Query Processor module in Geomania Millenium Server (GMS)
- Implemented Snapshot Automation Manager and Snapshot Scheduler
- Designed and implemented algorithms for query processing in Sensor Networks

**APEX College, Pokhara University, Nepal** (2003-2005)
***Software Engineer***

- Designed and developed college's web-based Management Information System (MIS), Library Management System (LMS), Finance Package as a team leader
- Created web-based reports using SQL queries to SQL Server in Java.

## Real World Applications - Design and Implementation

I have designed workflow models for the following applications that were also demonstrated at software competitions and International exhibitions.

- Australian Government Disaster Recovery Payment (AGDRP) business process workflow
- CombSearch for Gravitational Wave detection (Australia LIGO project)
- ECG data analysis using mobile and Cloud computing
- Image registration in fMRI analysis
- Distributed evolutionary multi-objective optimizations (genetic algorithms)
- Great Barrier Reef (GBR) sensor data analysis
- Kidney modelling (web-based)

## Software Demonstrations at Competitions and International Events

- Fourth IEEE International Scalable Computing Challenge (SCALE 2011), California, USA, May 23 - 26, 2011. (**Second Prize Winners**)
- Exhibitor, Supercomputing Conference 2010 (SC 2010), New Orleans, USA, Nov 13-19, 2010.
- Third IEEE International Scalable Computing Challenge (SCALE 2010), Australia, May 17-20, 2010.
- Summit 09 Cloud Challenge in conjunction with Summit 09, Canada, Oct 12 - 16, 2009.
- Second IEEE International Scalable Computing Challenge (SCALE 2009), China, May 18-21, 2009. (**Second Prize Winners**)
- 4th IEEE International Conference on e-Science (e-Science 2008), USA, 2008.
- First IEEE International Scalable Computing Challenge (SCALE 2008), France, May 19-22, 2008.

## Proficiency

General:

- Amazon Web Services, EC2, S3
- Software development in Java, C, C#, Python, Perl, Assembly
- Code repositories using SVN, CVS
- Web services, Scripting, Generics Programming, Network Protocols, Database Design, SQL, JSP
- GNU/Linux Administration

Technologies:

- Cloud concepts & solutions: IaaS, PaaS, SaaS, AWS, EC2, S3, OpenNebula, Google AppEngine, MS-Azure
- LRMS: SGE, PBS
- Grid middleware and Meta-Schedulers: Aneka, Cloudbus Toolkit, GLOBUS
- Standards, components, applications: WS-Agreement, XML/SOAP-based/RESTful web services, WS-GRAM, OGSA-DAI
- AA concepts and security techniques: ssh, vpn, firewalls, GSI, X509, certificates
- Network, OS, virtualization: Ethernet, TCP/IP, Linux(es), MS-Windows, VMware, VirtualBox, XEN

## Teaching Experience & Student Supervision

**Apex College, Pokhara University** (2003-2005)
***Lecturer***
Lecture the following subjects for undergraduate students, and also administer student minor projects and their grades.

- Image Processing and Pattern Recognition
- Microprocessors & Interfacing Technique
- Management Information System
- Java Programmers for Beginners
- Java Advanced Programming

**Student Supervision** (2004-2012)

I have supervised several graduate and undergraduate level students on their graduate projects.

- Xuyun Zhang, Privacy in Cloud, PhD student at the University of Technology, Sydney. 2011-2013. (PhD Co-superviser)
- Dong Leng, Autonomic Scaling of PaaS Services in a Cloud Computing Environment Case Study: Ligo Gravitational Wave Search, Masters of Engineering in Distributed Computing Project, University of Melbourne, Jan-July 2011.
- Sheng Niu, An Auto-scaling Cloud Computing Infrastructure based on Aneka Enterprise Middleware and Gridbus Workflow Engine, Masters of Engineering in Distributed Computing Project, University of Melbourne, June 2010.
- Dileban Karunamoorthy, Gridbus Workflow Management System and Aneka Enterprise Middleware A project on the integration of the two technologies, Masters of Engineering in Distributed Computing Project, University of Melbourne, June 2009.
- ShivaKumar Buyya, Applications Scheduling and Management System for Cloud Infrastructure, Major Project (CS-899), Department of Computer Engineering, NITK, Surathkal, India, April 2010.
- Rabindra Shrestha, Online Electronic transaction [Embedded SSL security], Project in Bachelor's Degree in Computer Engineering, Kantipur Engineering College, Nepal, 2004.

## Research & Development

**Business Process Management – CSIRO Project** (2011–2012)
**Supervisor:** Dr Surya Nepal
**Technologies Used:** Java, Web Services, Prediction Techniques, Esper Event Generation
**Description:** I have implemented a BPM prototype system that includes business process event generation, web-based portal, and several prediction algorithms: neuralnet, hidden Markov model, statistical descriptors, annotated transition system. The prototype system was demonstrated to the client's satisfaction.

**Scheduling Data-Intensive Application Workflows – ARC DP** (2007–2011)
**Supervisor:** Professor Rajkumar Buyya
**Technologies Used:** Java, Web Services, C#, Cloud Computing tools and resources
**Description:** I have implemented a Workflow Management System that includes a workflow editor, web-based portal, workflow engine, and resource plug-ins. The software design has been used to demonstrate the scalability of compute and data intensive applications at international software competitions and conferences.

**Research/Product Demonstrations – As part of CCGrid 2010 Conference** (May 2010)
**Supervisor:** Professor Rajkumar Buyya
**Description:** I have organized a research/product demonstration where various teams participated to showcase their software live at the CCGrid 2010 event. Participating teams from USA, Canada, France, India, China, Japan, and Australia including companies such as MathWorks made the event a huge success.

**Advanced Query Processing Techniques in Sensor Networks** (2005–2007)
**Supervisor:** Professor Hae-young Bae
**Technologies Used:** TinyDB, TOSSIM, Sensor Motes
**Description:** The project involved implementing and testing energy efficient query processing algorithms in sensor networks. I successfully completed this project resulting in a number of peer reviewed papers.

**Spatial Information Management System (SIMS) toward Ubiquitous Computing** (2005–2007)
**Supervisor:** Professor Hae-young Bae
**Technologies Used:** C++, Spatial Database, MSDN
**Description:** In this project, I worked with the team to Implement multi-level query processing in spatial database engine.

**RFID Middleware prototype implementation** (2005–2007)
**Supervisor:** Professor Hae-young Bae
**Technologies Used:** RFID Tags, C++, MSDN
**Description:** I worked with the team to implement RFID middleware that was later displayed at an industry expo in Seoul, South Korea.

**Robot Competitions** (1999–2003)
**Supervisors:** Rajesh Kayastha, NHK/ABU Robocon
**Technologies Used:** Microcontrollers, AtoD/DtoA interfaces, Actuators
**Description:** I participated and successfully demonstrated Nepal's first robot at an international robot competition, leading a team from Mechanical Engineering and Computer Engineering.

## Awards & Grants

Grants & Sponsorship

- R. Buyya and Aneka Team, "Scaling e-Science Applications using Azure Public Cloud", Academic Research Grant, Equipment Access, Microsoft, Seattle, USA, 2010-2013. Amount Equivalent: Approx. $US180,000.
- $US6000 - Amazon AWS credits for organizing software demonstrations in Australia (May 2010)
- $AU3500 - The Victorian Life Sciences Computation Initiative (VLSCI) for attending SC10, New Orleans, November 15-18, 2010.

High Performance Computing (HPC) Challenges, International

- 2nd Prize at SCALE 2011, Californa, USA, Plaque + $US500
- 2nd Prize at SCALE 2009, Shanghai, China, Plaque + $US500
- SCALE 2009 Participation, $US 1000
- SCALE 2008 Participation, $US 1000

Awards

- Australian Museum Eureka Prizes, 2010 Finalist, Innovation in Computer Science, The Cloudbus Project.
- Best Paper Award Winner at The IEEE 24th International Conference on Advanced Information Networking and Application (AINA 2010), Perth, Australia, 20-23 April 2010.

University Scholarships

- Excellent Graduate Award, Inha University, South Korea, 2007
- IPRS, MIRS, University of Melbourne, Australia, 2007-2010, $AU 22,500 p/a
- International student scholarship (Jungseok scholarship), Inha University, South Korea, 2005-2007, Tuition Waver
- Postgraduate Fellowship, Inha University, South Korea, 2005-2007, KRW700,000/month
- Melbourne Abroad Traveling Scholarship (MATS), University of Melbourne, Australia, 2009, $AU 1500

IEEE Travel Awards

- Research Training Conference Assistance Scheme (RT-CAS), 2009, $AU 2000
- IEEE Technical Committee on Scalable Computing (TCSC) Student Travel Award, 2008, $US 800

International Robot Competitions

- Certificate of Appreciation for developing & successfully competing in the international robotics competition ASIA-PACIFIC Robot Contest 2002 Tokyo organized by Asia-Pacific Broadcasting Union (ABU), Japan, 2002
- Certificate of Appreciation for developing & successfully competing in the international robotics competition ROBOCON 2001 in Japan organized by Japanese Broadcasting Corporation (NHK), Japan, 2001

Miscellaneous

- Outstanding Service Award, in recognition of the contributions to The 10th IEEE/ACM International Symposium on Cluster, Cloud and Grid computing, Melbourne, Australia, May, 2010.

## Academic Publications

**Book Chapters**

- Rajkumar Buyya, **Suraj Pandey**, and Christian Vecchiola, Market-Oriented Cloud Computing and the Cloudbus Toolkit, Large Scale Network-centric Computing Systems, A. Y. Zomaya and H. Sarbazi-Azad, Eds., John Wiley & Sons, Hoboken, NJ, USA, 2011. (Under review)
- **Suraj Pandey**, Dileban Karunamoorthy and Rajkumar Buyya, Workflow Engine for Clouds, Cloud Computing: Principles and Paradigms, R. Buyya, J. Broberg, A.Goscinski (eds), ISBN-13: 978-0470887998, Wiley Press, New York, USA, February 2011.
- **Suraj Pandey**, Rajkumar Buyya. Scheduling and Management Techniques for Data-Intensive Application Workflows, Data Intensive Distributed Computing: Challenges and Solutions for Large-scale Information Management, T. Kosar (ed), IGI Global, USA, 2009. (in press, accepted on July 24, 2009)

**Journal Papers**

- **Suraj Pandey** and Rajkumar Buyya, Scheduling Workflow Applications based on Multi-Source Parallel Data Retrieval in Distributed Computing Networks, The Computer Journal, ISSN 0010-4620, Oxford University Press, UK, 2012. (in press, accepted on Nov. 27, 2011).
- **Suraj Pandey**, William Voorsluys, Sheng Niu, Ahsan Khandoker, Rajkumar Buyya, An Autonomic Cloud Environment for Hosting ECG Data Analysis Services, Future Generation Computer Systems, Volume 28, No. 1, Pages: 147-154, ISSN: 0167-739X, Elsevier Science, Amsterdam, The Netherlands, January 2012.
- **Suraj Pandey**, William Voorsluys, Mustafizur Rahman, Rajkumar Buyya, James Dobson, Kenneth Chiu, A Grid Workflow Environment for Brain Imaging Analysis on Distributed Systems. Concurrency and Computation: Practice and Experience, Volume 21, Number 16, Pages: 2118-2139, ISSN: 1532-0626, Wiley Press, New York, USA, November 2009.
- **Suraj Pandey**, Sang Hun Eo, Ho-Seok Kim, Hay-Young Bae, Power-Aware Query Processing Using Optimized Distributed R-tree in Sensor Networks. The KIPS transactions. Part D, Volume d13, Issue 1, February 2006, pp.23-28.

**Conference Papers**

- **Suraj Pandey**, Surya Nepal, Shiping Chen: A Test-bed for the Evaluation of Business Process Prediction Techniques, 7th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2011), Orlando, Florida, USA, October 15-18, 2011.
- **Suraj Pandey**, Linlin Wu, Siddeswara Guru, and Rajkumar Buyya, A Particle Swarm Optimization (PSO)-based Heuristic for Scheduling Workflow Applications in Cloud Computing Environments, Proceedings of the 24th IEEE International Conference on Advanced Information Networking and Applications (AINA 2010), Perth, Australia, April 20-23, 2010. - **Best Paper Award**
- **Suraj Pandey**, Kapil Kumar Gupta, Adam Barker and Rajkumar Buyya, Minimizing Execution Cost when using Globally Distributed Cloud Services, Proceedings of the 24th IEEE International Conference on Advanced Information Networking and Applications (AINA 2010), Perth, Australia, April 20-23, 2010.
- Rajkumar Buyya, **Suraj Pandey**, Christian Vecchiola, Cloudbus Toolkit for Market-Oriented Cloud Computing, Proceeding of the 1st International Conference on Cloud Computing (CloudCom 2009, Springer, Germany), Beijing, China, December 1-4, 2009.
- Christian Vecchiola, **Suraj Pandey**, and Rajkumar Buyya, High-Performance Cloud Computing: A View of Scientific Applications, Proceedings of the 10th International Symposium on Pervasive Systems, Algorithms and Networks (I-SPAN 2009, IEEE CS Press, USA), Kaohsiung, Taiwan, December 14-16, 2009.
- **Suraj Pandey**, William Voorsluys, Mustafizur Rahman, Rajkumar Buyya, James Dobson, Kenneth Chiu, Brain Image Registration Analysis Workflow for fMRI Studies on Global Grids. In Proceedings of the 23rd IEEE International Conference on Advanced Information Networking and Applications (AINA-09), Bradford, UK, May 2009.
- **Suraj Pandey** and Rajkumar Buyya, Scheduling of Scientific Workflows on Data Grids, TCSC Doctoral Symposium, Proceedings of the 8th IEEE International Symposium on Cluster Computing and the Grid (CCGrid 2008, IEEE CS Press, Los Alamitos, CA, USA), May 19-22, 2008, Lyon, France.
- **Suraj Pandey**, Ho Seok Kim, Sang Hun Eo, and Hae-Young Bae. Systolic Query Processing for Aggregation in Sensor Networks. LNCS, Vol 4159/2006, pp. 536-545, UIC 2006.
- **Suraj Pandey**, Byeong-Seob You, Ho Seok Kim, Young-Hwan Oh,and Hae-Young Bae, Voronoi Based MBR Clustering for Spatial Queries in Sensor Networks. The 4th Asian Symposium on Geographic Information Systems From Computer Science & Engineering View, Jeju Crowne Plaza Hotel, pp.297-304, June 1 and 2, 2006.
- Sang-Hun Eo, **Suraj Pandey**, Myung-Keun Kim, Young-Hwan Oh, and Hae-Young Bae. FDSI-Tree: A Fully Distributed Spatial Index Tree for Efficient & Power-Aware Range Queries in Sensor Networks. SOFSEM 2006: Theory and Practice of Computer Science, LNCS 3831, pp. 254 - 261, 2006.
- Sang-Hun Eo, **Suraj Pandey**, Soon-Young Park, and Hae-Young Bae. Energy Efficient Design for Window Query Processing in Sensor Networks. Advanced Web and Network Technologies, and Applications, LNCS 3842, pp. 310 - 314, 2006.

**Short Papers/Posters/Magazines**

- **Suraj Pandey**, Personal Health Monitoring based on Mobile and Cloud Computing, Early Adopters PhD Workshop (EAPW) as part of the ACM/IEEE Supercomputing Conference 2010 (SC10), November 13-19, 2010, New Orleans, LA, USA.
- **Suraj Pandey**, Scheduling Data Intensive Applications based on Multi-Source Parallel Data Retrievals, ACM/IEEE Supercomputing Conference 2010 (SC10), November 13-19,2010 New Orleans, LA, USA.
- **Suraj Pandey**, Rajkumar Buyya, Cloudbus Workflow Management System as a Platform-as-a-Service for Cloud Computing, Cloud Computing Virtual Conference (CloudSlam'10), March 23-25, 2010.
- **Suraj Pandey**, Cloud Computing Technology & GIS Applications, The 8th Asian Symposium on Geographic Information Systems From Computer & Engineering View (ASGIS 2010), ChongQing, China, April 22-24, 2010.

- Suraj Pandey, Rajkumar Buyya. Data-Intensive Scientific Applications on Clouds, TCSC Newsletter Volume 10, No.1, 2010.
- Rajkumar Buyya, **Suraj Pandey**, Feature - Cloudbus: A tool for utility-oriented cloud computing, International Science Grid This Week (iSGTW), February 3, 2010.
- **Suraj Pandey**, Dileban Karunamoorthy, Kapil Kumar Gupta, Rajkumar Buyya, Megha Workflow Management System for Application Workflows, In IEEE Science & Engineering Graduate Research Expo 2009, Melbourne, Australia, 2009.
- **Suraj Pandey**, Chao Jin, William Voorsluys, Mustafizur Rahman, and Rajkumar Buyya, Gridbus Workflow Management System on Clouds and Global Grids. In Proceedings of the Fourth IEEE International Conference on eScience (eScience 2008), Indianapolis, USA, December 2008

**Selected Technical Report**

- **Suraj Pandey**, Kapil Kumar Gupta, Adam Barker, and Rajkumar Buyya, Minimizing Cost when using Globally Distributed Cloud Services: A Case Study in Analysis of Intrusion Detection Workflow Application, Technical Report, CLOUDS-TR-2009-6, Cloud Computing and Distributed Systems Laboratory, The University of Melbourne, Australia, Aug. 7, 2009.
- **Suraj Pandey**, Linlin Wu, Siddeswara Guru, and Rajkumar Buyya, A Particle Swarm Optimization-based Heuristic for Scheduling Workflow Applications in Cloud Computing Environments, Technical Report, CLOUDS-TR-2009-11, Cloud Computing and Distributed Systems Laboratory, The University of Melbourne, Australia, Oct. 16, 2009.
- **Suraj Pandey**, William Voorsluys, Mustafizur Rahman, Rajkumar Buyya, James Dobson, and Kenneth Chiu, Brain Image Registration Analysis Workflow for fMRI Studies on Global Grids, Technical Report, GRIDS-TR-2008-12, Grid Computing and Distributed Systems Laboratory, The University of Melbourne, Australia, Aug. 15, 2008.

**Keynote Talks , Invited Talks, seminars, and presentations**

- "Accelerating Executions of Scientific Application Workflows using Clouds", CSIRO: Workflows, high-throughput imaging, visualisation and accelerated computing workshop, 11-14 October 2011, Auditorium, CSIRO Riverside.
- "Experience and Practice: Workflows for Scalable Executions of Scientific Applications", Keynote at OZVIZ 2011, 23-25th November 2011 in Sydney, NSW.
- CAC Seminar: "Scheduling and Management of Data Intensive Application Workflows in a Cloud", CAC at Rutgers, USA, 19-October-2011.
- "CloudBased Image Analysis and Processing Toolbox", Tomasz Bednarz and Suraj Pandey, CSIRO NeCTAR Workshop, Canberra.
- "Business Process Monitoring and Document Tracking", Surya Nepal and Suraj Pandey, Centrelink, 15-December-2011, Canberra, Australia.

## Professional Services & Memberships

- Poster and Research Demo Co-Chair, CCGrid 2012 The 12th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, May 13-16, 2012, Ottawa, Canada.
- Chair, 2nd International Workshop on Cloud Computing and Scientific Applications (CCSA 2012), 13-16 May, 2012. (Dell Sponsored)
- Chair, International Workshop on Cloud Computing and Scientific Applications (CCSA 2011), 5-7 December 2011, Melbourne, Australia. (IBM Australia sponsored)
- Technical Program Committee Member, The 11th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid'11), Newport Beach, CA, USA, 23-26 May 2011.
- Technical Program Committee Member, CMS 2011 : 2nd International Workshop on Conceptual Modelling of Services, Sep 6th - Sep 8th, 2011, Milan, Italy.
- Technical Program Committee Member, CISIS 2010 - International Conference on Complex, Intelligent and Software Intensive Systems. Track: "Scientific Computing: Infrastructures and Applications". February 15th - 18th 2010, Krakow, Poland
- Technical Program Committee Member, MoCS 2011 - Workshop on Management of Cloud Systems. 28 June 2011 - Kerkyra (Corfu) Greece
- Publicity Chair and Cyber Chair, First International Conference on Utility and Cloud Computing (UCC 2010), Dec 14-16, Chennai, India, 2010.
- Cyber Chair (Website Management), 10th International Symposium on Cluster, Cloud and Grid Computing (CCGrid'10), Melbourne, Australia, 17-20 May 2010.
- Cyber Chair (Website Management), The 11th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid'11), Newport Beach, CA, USA, 23-26 May 2011.
- Chair of Research/Product Demonstrations, 10th International Symposium on Cluster, Cloud and Grid Computing (CCGrid'10), Melbourne, Australia, 17-20 May 2010.
- Organiser (Conference Organization, logistics, and management) 4th IEEE International Conference on Utility and Cloud Computing (UCC 2011)

- Local Organizing Chair, 10th International Symposium on Cluster, Cloud and Grid Computing (CCGrid'10), Melbourne, Australia, 17-20 May 2010.
- Reviewer, Future Generation Computer Systems, Elsevier.
- Reviewer, Journal of Systems and Software, Elsevier.
- Reviewer of papers submitted to CCGrid 2010, Grid 2009, e-Science 2009, Europar 2008, SWF 2010.

- Robot Club Pioneer Member, Institute of Engineering, Kathmandu, Nepal
- Executive Committee Member of Social Youth Council of Nepal (SYC), Kathmandu, Nepal
- Member, IEEE, IEEE Computer Society, ACM
- Member of Korea Information Processing Society (KIPS), and Korea Information Science Society (KISS)

## References

- **Professor Rajkumar Buyya** – Employer and PhD Supervisor
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  Email: raj@csse.unimelb.edu.au Web: http://www.buyya.com

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- **Professor Manish Parashar** – SCALE Competitions Program co-Chair
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- **Professor Albert Zomaya** – Research in Cloud Computing
  Australian Research Council Professorial Fellow
  Chair Professor of High Performance Computing & Networking
  Director, Centre for Distributed and High Performance Computing
  School of Information Technologies, Building J12, The University of Sydney, Sydney, NSW 2006, Australia

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## Personal

- Year of Birth: 1980
- Gender: Male
- Relationship Status: Married
- About Me: Extrovert, Gentle, Honest, Responsive, Friendly ...
- Facebook: http://www.facebook.com/surajpandey10
- Activities: Tennis, Table Tennis
- Music: U2, Madonna, Foo Fighters, Eminem
- Books: The Da Vinci Code, The Lost Symbol, Harry Potter Series, Siddhartha