

PUBLICATIONS

THESIS

- Scheduling Task Parallel Applications for Rapid Turnaround on Enterprise Desktop Grids,
D. Kondo, Ph.D. Dissertation, University of California at San Diego, July 2005.

INTERNATIONAL JOURNAL ARTICLES

- Scheduling Task-Parallel Applications for Rapid Turnaround on Enterprise Desktop Grids
D. Kondo, A. A. Chien, H. Casanova. Journal of Grid Computing, 5(4), 379--405, 2007.
- Resource Availability in Enterprise Desktop Grids
D. Kondo, A. A. Chien, F. Cappello, G. Fedak, H. Casanova. Journal of Future Generation Computer Systems, 23(7), 888-903, 2007
- Calculation of the relative geometry of tRNAs in the ribosome from directed hydroxyl-radical probing data.
S. Joseph, M. Whirl, **D. Kondo**, H. Noller, and R. B. Altman, RNA 6:220-232. 2000.

REFEREED INTERNATIONAL CONFERENCE PAPERS

- On Correlated Availability in Internet Distributed Systems
D. Kondo, Artur Andrzejak, David P. Anderson
to appear at Grid 2008, Tsukuba, Japan.
- Characterizing Error Rates in Internet Desktop Grids
D. Kondo, F. Araujo, P. Malecot, P. Domingues, L. M. Silva, G. Fedak, F. Cappello
European Conference on Parallel and Distributed Computing (Euro-Par), Rennes 2007, **Best Paper Award**
- Performance Evaluation of Scheduling Policies for Volunteer Computing
D. Kondo, David P. Anderson, John McLeod VII 3rd IEEE International Conference on e-Science and Grid Computing e-Science'07, 2007, Bangalore, India.
- On Resource Volatility in Enterprise Desktop Grids.
D. Kondo, G. Fedak, F. Cappello, A. A. Chien, H. Casanova
2nd IEEE International Conference on e-Science and Grid Computing e-Science'06, 2006, Amsterdam, Netherlands.
- Towards Soft Real-Time Applications on Enterprise Desktop Grids
D. Kondo, B. Kindarji, G. Fedak, F. Cappello. 6th IEEE Symposium on Cluster Computing and the Grid (CCGRID 2006), June 2006, Singapore.
- Resource Management for Rapid Application Turnaround on Enterprise Desktop Grids. **D. Kondo**, A. Chien, H. Casanova in Proceedings of ACM Conference on High Performance Computing and Networking, SC2004, November 2004, Pittsburgh, Pennsylvania.

- Characterizing and Evaluating Desktop Grids: An Empirical Study.
D. Kondo, M. Taufer, C. Brooks, H. Casanova, A. Chien in Proceedings of the 18th IEEE International Parallel & Distributed Processing Symposium (IPDPS) 2004, May 2004, Santa Fe, New Mexico.
- Models and Scheduling Mechanisms for Global Computing Applications.
D. Kondo, H. Casanova, E. Wing, F. Berman, in Proceedings of the 16th IEEE International Parallel & Distributed Processing Symposium 2002, April 2002, Fort Lauderdale, Florida.

REFEREED INTERNATIONAL WORKSHOP PAPERS

- Ensuring Collective Availability in Volatile Resource Pools via Forecasting
A. Andrzejak, **D. Kondo**, D. P. Anderson
19th IFIP/IEEE Distributed Systems: Operations and Management (DSOM 2008) (part of Manweek 2008), Samos Island, Greece, to appear September 2008.
- Using Cliques of Nodes to Store Desktop Grid Checkpoints
F. Araujo, P. Domingues, **D. Kondo**, and L. M. Silva
Coregrid Integration Workshop, Crete, Greece, April 2008.
- Validating Desktop Grid Results By Comparing Intermediate Checkpoints.
F. Araujo, P. Domingues, **D. Kondo**, L. M. Silva
Coregrid Integration Workshop, 2006, Krakow, Poland
- Validating Desktop Grid Results By Comparing Intermediate Checkpoints.
F. Araujo, P. Domingues, **D. Kondo**, L. M. Silva
Coregrid Integration Workshop, 2006, Krakow, Poland

REFEREED NATIONAL CONFERENCE PAPERS

- XtremLab: Une plateforme pour l'observation et la caractérisation des grilles de PC sur Internet
P. Malécot, **D. Kondo**, G. Fedak
Rencontres francophones du parallélisme Renpar'06 Perpignan, 2006

REFEREED WHITE PAPERS

- Grid Architectural Issues: Scalability, Dependability, Adaptability
State-of-the-art and Future Trends.
A. Andrzejak, C. Mastroianni, P. Fragopoulou, **D. Kondo**, P. Malecot, A. Reinefeld, F. Schintke, T. Schütt, G.-C. Silaghi, L.M. Silva, P. Trunfio, D. Zeinalipour-Yazti, E. Zimeo. Refereed white paper submitted 2008

REFEREED BOOK CHAPTERS

- Desktop Grids: From Volunteer Distributed Computing to High Throughput Computing Production Platforms.
F. Cappello, G. Fedak, **D. Kondo**, P. Malécot, A. Rezmerita, submitted in 2008

MISCELLANEOUS

- Desktop grid simulation software SimBOINC, <http://simboinc.gforge.inria.fr>.

- Desktop grid trace archive, <http://desktopgrid.lri.fr/traces>, for the fault-tolerance, Grid, and P2P community. Several hundred downloads since February 2006.
- XtremLab: A System for Characterizing Internet Desktop Grids.
P. Malecot, **D. Kondo**, G. Fedak. Refereed Poster and Abstract in the 15th IEEE International Symposium on High Performance Distributed Computing HPDC'06 Paris, 2006
- Availability Traces of Enterprise Desktop Grids.
D. Kondo, G. Fedak, F. Cappello, A. Chien, H. Casanova. Refereed Poster and Abstract in the 7th IEEE/ACM International Conference on Grid Computing GRID'06 Barcelona, 2006
- Computing the Optimal Makespan for Jobs with Identical and Independent Tasks Scheduled on Volatile Hosts.
D. Kondo, H. Casanova. Technical Report CS2004-0796, Dept. of Computer Science and Engineering, University of California at San Diego, July 2004.

INVITED PRESENTATIONS

- On Correlated Availability in Internet Distributed Systems, XtremWeb Users Group Workshop held in conjunction with the Enabling Desktop Grids for e-Science User and Industry Forum, Orsay, France, May 2008.
- On Correlated Availability in Internet Distributed Systems, XtremWeb Users Group Workshop, Orsay, 7th Workshop on Global and Peer-to-Peer Computing (WGP2P'08), Lyon, France, May 2008.
- Characterizing Error Rates in Internet Desktop Grids, Coregrid Scientific Advisory Board Meeting, Amsterdam, Netherlands, April 2008.
- Towards Soft Real-Time Applications on Enterprise Desktop Grids, ID-IMAG laboratory, Grenoble, France, March 2007.
- Characterizing Error Rates in Internet Desktop Grids, XtremWeb Users Group Workshop, Hammamet, Tunisia, February 2007.
- Scheduling on Large-Scale and Volatile Desktop Grids, France Telecom, Paris, France, February 2007.
- Scheduling Task Parallel Applications for Rapid Turnaround on Enterprise Desktop Grids, Argonne National Laboratory, Chicago, Illinois, March 2005.

ACADEMIC LEADERSHIP & SERVICE

CONFERENCE CHAIRING AND PROGRAM COMMITTEES

- **General co-chair** of the 4th BOINC Workshop on Volunteer Computing and Distributed Thinking, Grenoble, France, September 2008.
- **Program chair** of the 2nd Workshop of Large-Scale and Volatile Desktop Grids (PCGRID'08), Miami, Florida, April 2008.
- Program Committee member for the 7th Workshop on Global and Peer-to-Peer Computing (WGP2P'08), Lyon, France, May 2008.
- **General co-chair and co-founder** of the 1st Workshop of Large-Scale and Volatile Desktop Grids (PCGRID'07), Long Beach, California, March 2007.
- Co-publicity chair of the 14th European PVM/MPI Users' Group conference (EUROPVM/MPI'07), Paris, France, September 2007.
- Program Committee member for the 1st XtremWeb User's Group Workshop (XW'07), Hammamet, Tunisia, February 2007.
- Program Committee member for the 6th Workshop on Global and Peer-to-Peer Computing (WGP2P'07), Rio de Janeiro, Brazil, May 2007.
- Program Committee member for the 5th Workshop on Global and Peer-to-Peer Computing (WGP2P'06), Singapore, May 2006.
- Reviewer for TPDS, JPDC, SC, HPDC, ICDCS, IPDPS, Euro-Par

PROJECTS AND GRANTS

- Member of GRID4ALL, WP2 Scheduling service, a research project to deploy grid services over home networks, 2006-2007
- Member of COREGRID, WP4 Dependability on desktop grids, a research organization for fostering European collaboration, 2005-2008

ADVISING

- Bahman Javadi, INRIA postdoctoral student, 2008-2010
- Undergraduate student Nagarjun Kota, 2008
- Ph.D. student Paul Malecot, 2005-2007
- Master's student Lamia Benmouffok, 2006

TEACHING

UCSD CSE 105: Introduction to the Theory of Computability	Fall 2002
UCSD CSE 160: Introduction to Parallel Computation	Spring 2000
UCSD CSE 5A: Introduction to Programming	Fall 1999

MISCELLANEOUS

- Co-coordinator of the MESCAL team activity report, 2008

COLLABORATORS

- David Anderson, UC Berkeley, USA.
- Artur Andrzejak, Zuse Institute of Berlin, Germany.
- Filipe Araujo, University of Coimbra, Portugal.
- Henri Casanova, University of Hawai`i at Manoa, USA.
- Franck Cappello, INRIA Futurs, France.
- Gilles Fedak, INRIA GRAAL, France.
- Luis M. Silva, University of Coimbra, Portugal.

REFERENCES

Available upon request.