

TFCC / TCDP / TCPP / TCSA and Proposal for a new TC on Scalable Computing (TCSC)

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http://www.ieeetfcc.org

Problem(s)

- TFCC → tabled since 2002
 - It was on hold due overlap issues
 - Opposition to gaining TC status from TCPP and TCDP (and somewhat TCSA)
- TCSA → non-exist ent for a few years before 2002 → waiting for the overall situation to clear

Road to a Solution

- Early solution proposal → creation of a Council → turned out to be premature.
 - Conference calls involving TCDP, TCPP, TFCC and TCSA Chairs.
 - Possible intermediate solution has been worked out
 - History and data first

TFCC Introduction

- TFCC created in 1999 to cover cluster computing research, development, and education.
- TFCC act ivit ies
 - pr of essional event s
 - publications
 - regional programs
 - guidelines for educational programs
 - WWW site / portal
 - bi-annual newsletter

Scope and Events

- TFCC covers all aspects of clusters, clusters of clusters and the grid
 - Three major annual events:
 - International Conference on Cluster Computing – started in 1999.
 - International Symposium on Cluster
 Computing and the Grid (CCGrid) started in 2001.
 - International Workshop on Grid Computing
 started in 2000.

Int I. Clust er Computing Conf.

- Clust er 1999, Melbourne, Australia, Dec 1999, 105 delegat es.
- Clust er 2000, Chemnit z, Germany, Nov 2000, 161 delegat es.
- Clust er 2001, Newport Beach, California, Oct 2001, 304 delegat es.
- Clust er 2002, Chicago, Sep 2002, 283 delegat es.
- Clust er 2003, Hong Kong, China, Dec 2003, 176 delegat es.
- Clust er 2004, San Diego, Calif ornia, 2004, expect 250+ delegat es.
- Clust er 2005, Bost on.
- Clust er 2006, proposal from Barcelona.

I EEE/ ACM CCGrid

- CCGrid 2001, Brisbane, Australia, May 2001, 165 delegates
- CCGrid 2002, Berlin, Germany, May 2002, 250 delegates.
- CCGrid 2003, Tokyo, Japan, May 2003, May 11-16, 2002, ~300 delegates.
- CCGrid 2004, Chicago, USA, April 2004, 200+ delegat es.
- CCGrid 2005, Cardiff, UK, May 2005.
- CCGrid 2006, Singapore.
- CCGrid 2007, proposal from Brazil.

I EEE/ACM Grid Workshops

- Grid 2000, Dec 2000, Bangalore, India, 105 delegat es.
- Grid 2001, Nov 2001, Denver, Color ado, held in conjunction with SC 2001, 150+ delegates.
- Grid 2002, Nov 2002, Baltimore, MD held in conjunction with SC 2002, 150+ delegates.
- Grid 2003, Nov 2003, Phoenix, AZ held in conjunction with SC 2003, 400 delegates.
- Grid 2004, Nov 2004, Pittsburgh, held in conjunction with SC 2004.



Some external sponsors of TFCC events

























Qwest.















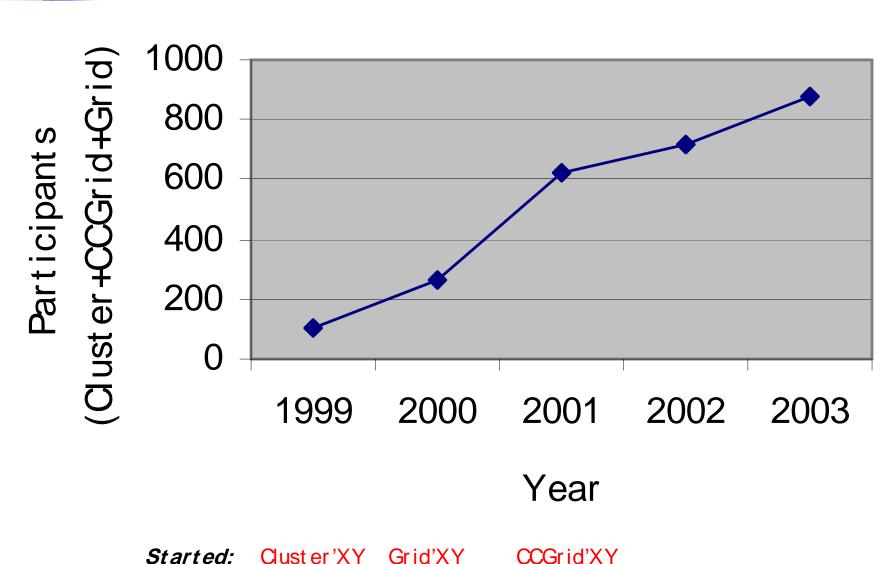


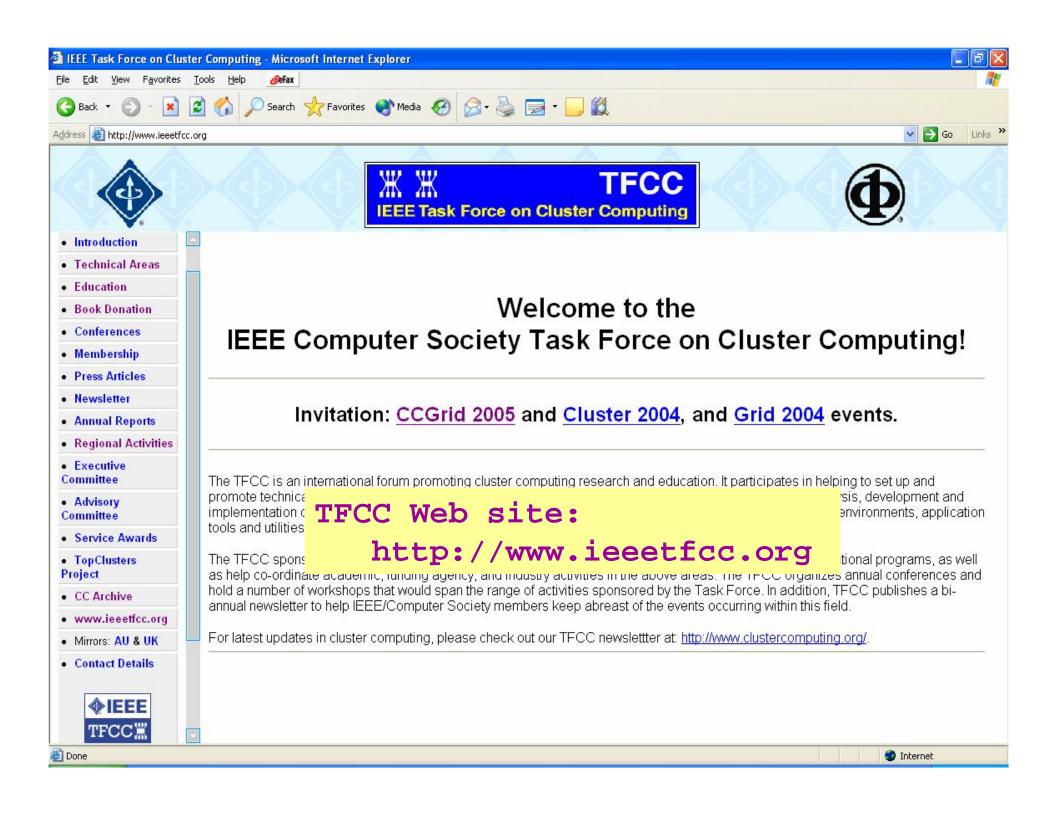




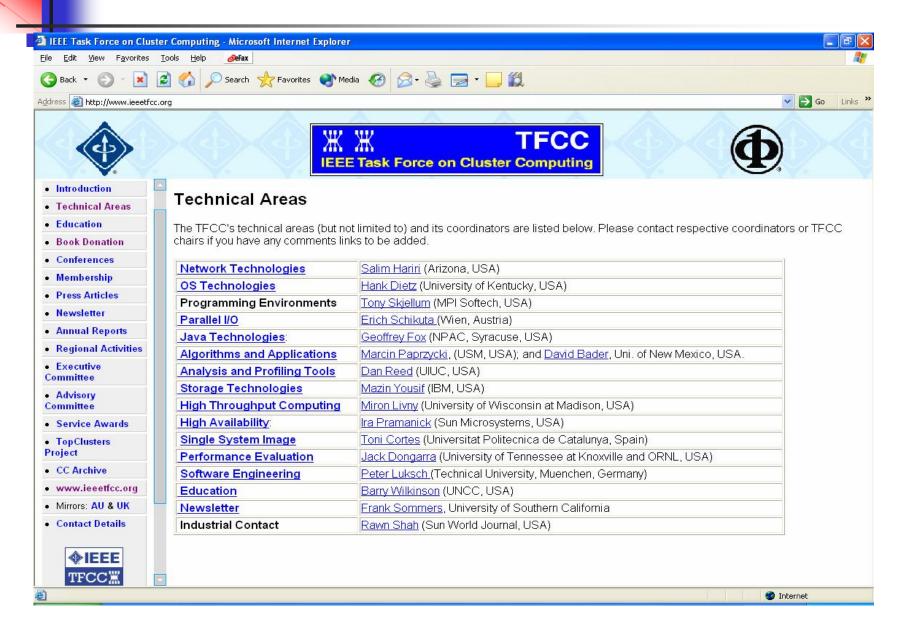


Attendance Growth in TFCC Events

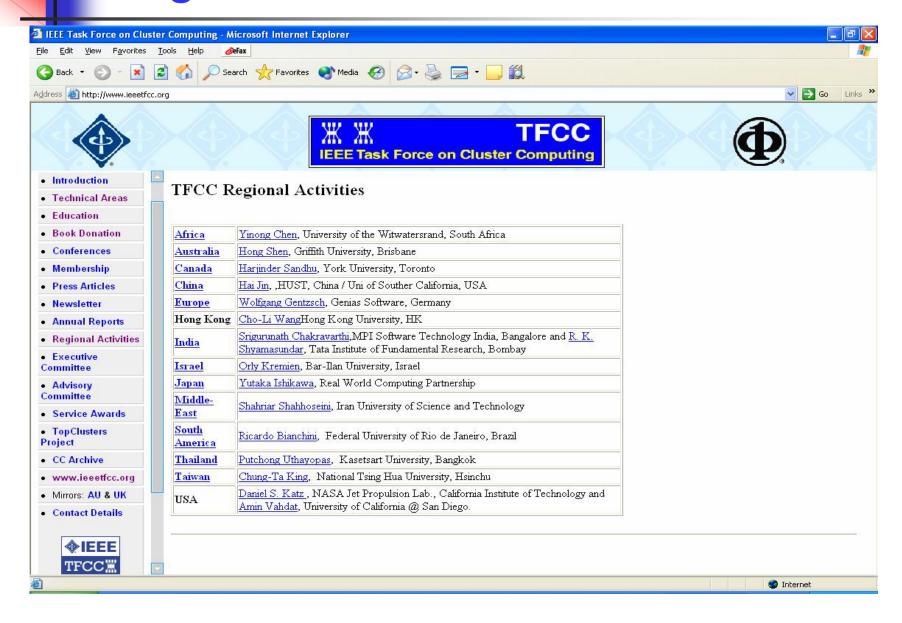




Technical Areas and Leaders



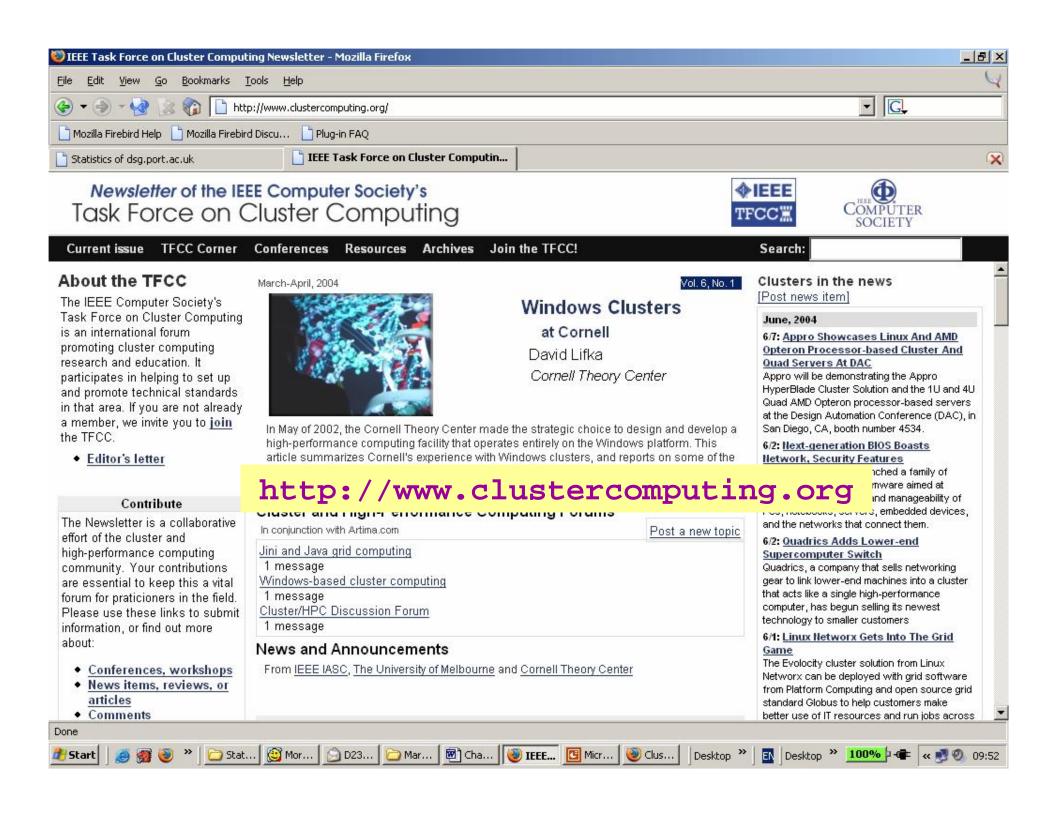
Regional Activities





Book Donation Program

- http://www.ieeetfcc.org/edupromote.html
 - Over 1200 copies of books and journals have been donated to faculties all over the world as part of educational promotion programme.
 - In co-operation with many international publishers and authors.
 - 50% reserved for faculties working in less developed countries.



Other Activities

- Computing Research Reposit or y on Clust er Computing
 - part of the ACM/Los Alamos e-Print archive
 - http://arxiv.org/archive/cs/intro.html
- TopClusters joint effort with Top500
 - http://www.ieeetfcc.org/TopClusters
- TFCC Whit epaper
 - http://dsg.port.ac.uk/~mab/tfcc/WhitePaper/

TFCC Membership

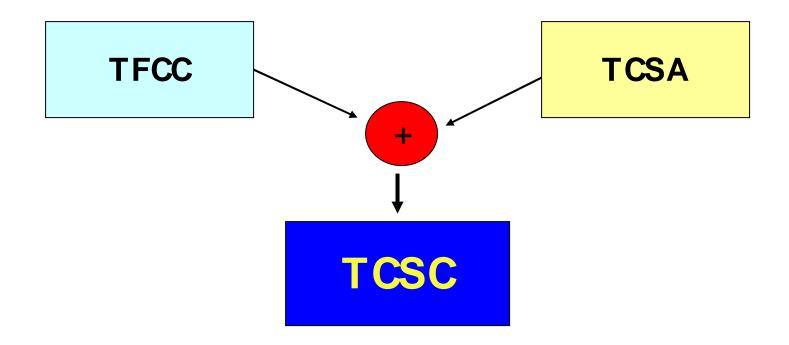
- Over 608 registered members (as of a year ago)

TCSA

- Main conf erence → SC'xx → last year 7,500 at t endees
- Second conference PARELEC
- Membership 850 325 ≈ 500
- Executive Committee created in April, 2004
- WWW site created in May, 2004
- Newsletter of SCxx + other TCSA it ems send out mid-May 2004



- Merger of TFCC and TCSA into
 TC on Scalable Computing (TCSC)
 - Merged charter (clusters, grids and supercomputing applications) and activities.



Fut ur e

- Details of transition ready for TAB in November.
- Create a Technical Steering Committee (TSE) involving
 - TCSC / TCDP / TCPP
 - I EEE Dist ribut ed Syst ems (online)
 - Transactions PDS
 - Conf er ences
 - _ ..?
- Fut ur e-f ut ur e → Council