



- ▶ All Actions
- ▶ Biomedicine and Molecular Biosciences (BMBS)
- ▶ Chemistry and Molecular Sciences and Technologies (CMST)
- ▶ Earth System Science and Environmental Management (ESSEM)
- ▶ Food and Agriculture (FA)
- ▶ Forests, their Products and Services (FPS)
- ▶ Individuals, Societies, Cultures and Health (ISCH)
- ▶ **Information and Communication Technologies (ICT)**
 - In Detail
 - **Actions**
 - Restricted Area
- ▶ Materials, Physics and Nanosciences (MPNS)
- ▶ Transport and Urban Development (TUD)
- ▶ Trans-Domain Proposals

ICT COST Action IC1001

Transactional Memories: Foundations, Algorithms, Tools, and Applications (Euro-TM)

Descriptions are provided by the Actions directly via e-COST.

Parallel programming (PP) used to be an area once confined to a few niches, such as scientific and high-performance computing applications. However, with the proliferation of multicore processors, and the emergence of new, inherently parallel and distributed deployment platforms, such as those provided by cloud computing, parallel programming has definitely become a mainstream concern. Transactional Memories (TMs) answer the need to find a better programming model for PP, capable of boosting developers' productivity and allowing ordinary programmers to unleash the power of parallel and distributed architectures avoiding the pitfalls of manual, lock based synchronization. It is therefore no surprise that TM has been subject to intense research in the last years. This Action aims at consolidating European research on this important field, by coordinating the European research groups working on the development of complementary, interdisciplinary aspects of Transactional Memories, including theoretical foundations, algorithms, hardware and operating system support, language integration and development tools, and applications.

Information and Communication Technologies COST Action IC1001

- ▶ **Description**
- ▶ Parties
- ▶ Management Committee



General Information*

Chair of the Action:
[Dr Paolo ROMANO](#) (PT)

Vice Chair of the Action:
[Dr Marc SHAPIRO](#) (FR)

DC Rapporteurs:
[Prof. Anne DOUCET-LECLERC DU SABLON](#) (FR)

Science officer of the Action:
[Mr Ralph STUEBNER](#)

Administrative officer of the Action:
[Ms Aranzazu SANCHEZ](#)

Downloads*

Action Fact Sheet
[Download AFS as .RTF](#)

Memorandum of Understanding
[Download MoU as PDF](#)

Websites*

Action website:
<http://www.eurotm.org/>

Domain website:
<http://www.cost.eu/ict>

* powered by e-COST

Last updated: 02 May 2011 