# Consultative Committee for Time and Frequency, June 2001

## Working Group on "TAI"
## Sub Working Group on "Algorithms"

## Report

The subWG was created during the CCTF in 1999 with the following aims:

- to promote deeper, wider, more diffused studies on algorithms for T&F
- to stimulate publications, discussions, and collaborations on the gained experiences
- to address potential new needs in T&F data processing and in new applications.

New needs are emerging in the statistical and mathematical processing of T&F measurement data either because new conceptions of frequency standards and new comparison techniques are being used, or because different applications such as telecommunication networks and navigation systems are asking collaboration and advice about algorithms to the T&F community.

The group just began to set-up and to contact people with interest and expertise in the different laboratories. Twenty-five people expressed their interest from 14 different institutions and countries. The largest effort at the moment is to inform people on the work done by each other, on the perspectives, and on the upcoming needs that ask for attention.

To this aims, two are the current main activities:

- preparation of a web site ( http://www.ien.it/tf/cctf/ ) with the WG members, activities, bibliography, hot topics, and events with links to the different institutions or personal pages. A page of possible collaborations, contracts, and scholarship is also planned.
- organisation of the IV International Symposium on Time Scale Algorithms following the tradition based on the
  1st Symposium in Boulder, CO, 1972
  2nd Symposium in Boulder, CO, 1982
  3rd Symposium in Torino, Italy, 1988
  the IV symposium will be held at the BIPM, on March 18-19, 2002 and the Scientific Organising Committee is composed by P. Tavella (IEN, Italy), F. Arias (BIPM, France), and D.Matsakis (USNO, US), while the organisation logistic secretariat is at the BIPM
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The subWG intends to set-up an exchange with scientists of different communities that may get interested in the use of T&F algorithms. Any comments and suggestions are welcome.

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