

# IC-Scheduling Theory: A New Scheduling Paradigm for Internet-Based Computing

Gennaro Cordasco  
Universita' di Salerno, Italy

## **Abstract**

Earlier work has developed the underpinnings of a theory of scheduling computations having intertask dependencies - modeled via dags - for Internet-based computing. The goal of the schedules produced is to render tasks eligible for execution at the maximum possible rate. This goal aims:

- to utilize remote clients' computational resources well, by always having work to allocate to an available client;
- to lessen the likelihood of the "gridlock" that ensues when a computation stalls for lack of eligible tasks.