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IEEE Transactions on Fuzzy Systems
Special Issue on “Granular Computing”

IEEE Transactions on Fuzzy Systems (TFS) seeks original manuscripts for a Special Issue on *Granular Computing* scheduled to appear in early 2007.

Granular computing is an emerging computing paradigm of information processing. It concerns processing of complex information entities called "information granules", which arise in the process of abstraction of data and derivation of knowledge from information; this process is called information granulation. Granular Computing (GrC) is a general computation theory for effectively using granules such as classes, clusters, subsets, groups and intervals to build an efficient computational model for complex applications with huge amounts of data, information and knowledge. Though the label is relatively recent, the basic notions and principles of granular computing, under different names, have appeared in many related fields, such as information hiding in programming, granularity in artificial intelligence, divide and conquer in theoretical computer science, interval computing, cluster analysis, fuzzy and rough set theories, neutrosophic computing, quotient space theory, belief functions, machine learning, databases, and many others. In the past few years, we have witnessed a renewed and fast growing interest in GrC. Granular computing has begun to play important roles in bioinformatics, e-Business, security, machine learning, data mining, high-performance computing and wireless mobile computing in terms of efficiency, effectiveness, robustness and uncertainty. Generally speaking, information granules are collection of entities that are grouped together due to their similarity, functional adjacency, indistinguishability, coherency or the like. Although, at this point, it is difficult to give a precise and uncontroversial definition of granular computing, it can be described from several perspectives. Granular computing can be conceived as a category of theories, methodologies, techniques and tools that make use of information granules in the process of problem solving.

The special issue seeks original research work in theory and applications of Granular Computing. Submitted articles must not have been previously published or currently submitted for journal publication elsewhere and must meet the requirements of IEEE copyright policy. Processing of manuscripts will be done through Manuscript central as per standard TFS norms. Authors' information can be found at <http://iee-cis.org/pubs/tfs/> .

Important dates: **Submission Deadline: May 1, 2006**
 Completion of First Round of Reviews: August 1, 2006
 Minor Revisions Due: Sept. 15 , 2006
 Final Acceptance Notification: October 15, 2006
 Publication : Early 2007

Please address all correspondences regarding this special issue to the Guest Editors.

GUEST EDITORS

Professor T.Y. Lin
San Jose State University
Email: tylin@cs.sjsu.edu

Prof. Lotfi Zedeh
UC-Berkeley
Email: zedeh@cs.berkeley.edu