Peer-to-peer (P2P) computing is currently attracting enormous media attention, spurred by the popularity of file sharing systems such as Napster, Gnutella and Morpheus. In P2P systems a very large number of autonomous computing nodes (the peers) pool together their resources and rely on each other for data and services. The workshop will concentrate on the impact that current database research can have to P2P computing and vice versa. Although researchers in distributed data structures and databases have been working on related issues for a long time, the developed techniques are simply not enough for the new paradigm. P2P computing introduces the paradigm of decentralization going hand in hand with an increasing self-organization of highly autonomous peers, thus departing from the classical client-server computing paradigm. This new paradigm bears the potential to realize computing systems that scale to very large numbers of participating nodes. Taking advantage of this potential for the area of data management is a challenge that the database community itself is asked to face. The realization of the P2P computing vision is however a Herculean task freight with immense technical difficulties. As a result, it offers database theoreticians and system developers a new set of exciting open problems.

The workshop will concentrate on the following questions:

- What can database systems research have to offer to P2P computing and vice versa?
- Are P2P databases a good idea? What are the benefits they bring to traditional database application domains? What are the technical challenges for their realization?
- What are the principles characterizing complex adaptive information systems and their impact for database technology?

Other topics include data models, data placement, query answering, indexing, caching, replication techniques, transaction management, metadata management, dynamic schema integration, semantic web, self-organization and emergent behavior, complex adaptive information systems and resource allocation in P2P systems.

**Paper Submission:** Submitted papers must be original and not submitted for publication elsewhere. All submitted papers can be up to 15 proceedings pages. Interested authors should e-mail their papers in postscript or pdf form to Manolis Koubarakis (manolis@intelligence.tuc.gr) by May 30, 2003. Notification of acceptance or rejection will be sent to authors by July 14, 2003. Final versions of papers are due by August 1, 2003. We expect accepted papers to appear in a special volume in the series Lecture Notes in Computer Science and we are currently in touch with Springer about this. Authors are requested to prepare their papers using the instructions for LNCS.

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**Important Dates:**
- **May 30:** Submission Deadline
- **July 14:** Notification of acceptance
- **August 1:** Camera Ready Papers due