Table of Contents

Second IFCIS International Conference on Cooperative Information Systems (CoopIS’97)

Message from the General Chair .................................................. ix
Message from the Program Chairs ............................................. x
Organizers ................................................................................ xi
Program Committee ............................................................... xii
Auxiliary Reviewers ............................................................... xiii

Invited Paper

Federating Object-Oriented and Relational Databases: The IRO-DB Experience ........................................ 2
  G. Gardarin, B. Finance, P. Fankhauser

Session 1: Cooperation

Cooperative View Mechanisms in Distributed Multiuser Hypermedia Environments .................................... 15
  S. Konomi, Y. Yokota, K. Sakata, Y. Kambayashi

Collision of Constrained Work Spaces: A Unifying Concept for Design Interactions .................................. 25
  R. Sturm, J. Mülle, P. Lockemann

Enabling Cooperation among Disconnected Mobile Users ........................................................................ 36
  J. Klingemann, T. Tesch, J. Wäsch

Session 2: Rules and Reasoning

Configuration Detection as a Problem of Knowledge Discovery in Computer Networks .......................... 47
  Y. Murayama

Task Sharing among Agents using Reactive Rules .................................................................................. 56
  M. Berndtsson, S. Chakravarthy, B. Lings

Fault-Tolerant and Approximate Reasoning in Multi-Source Environments ........................................... 66
  F. Koriche

Panel 1: Cooperative MultiAgent Systems for the Web
  Moderator: A. Joshi

Panel Statement ........................................................................ 74

Session 3: Workflow Management

A Paradigm for Security Enforcement in CapBasED-AMS ................................................................. 79
  P. Hung, K. Karlapalem
Design and Implementation of a Distributed Workflow Enactment Service
M. Altinel, E. Gokkoca, I. Cingil, E. Nesime, P. Koksal, A. Dogac

A Distributed Execution Environment for Large-Scale Workflow Management Systems with Subnets and Server Migration
T. Bauer, P. Dadam

Session 4: Interoperation

Precise Detection and Proper Handling of View Maintenance Anomalies in a Multidatabase Environment
R. Chen, W. Meng

HADAS: A Network-Centric Framework for Interoperability Programming
I. Ben-Shaul, A. Cohen, O. Holder, B. Lavva

Accessing Heterogeneous Data through Homogenization and Integration Mediators
L. Yan, M. Özsu, L. Liu

On Context-based Naming in Information Bases
M. Theodorakis, P. Constantopoulos

Session 5: Internet Access

An Architecture for Intelligent Resource Agents
J. Pastor, S. Taylor

Semi-Automatic Wrapper Generation for Internet Information Sources
N. Ashish, C. Knoblock

An Ontology Tool for Query Formulation in an Agent-Based Context
K. Mahalingam, M. Huhns

Panel 2: Practical Applications of Enterprise CIS
Moderator: S. Laufmann

Panel Statement

Invited Paper

Benchmark Business Integration
T. Rybeck

Session 6: Query Processing

A TV News Retrieval System with Interactive Query Function
Y. Ariki, Y. Sugiyama

Query Modification in Object-Oriented Database Federations
M. Vermeer, P. Apers

AQuES: An Agent-based Query Evaluation System
M. Stillger, J. Obermaier, J. Freytag
DIIIM: A Foundation for Translating Loosely-Specified Queries into Executable Plans in Large-Scale Information Systems

A. Nica, E. Rundensteiner

Panel 3: Bridging the Gap between Cooperative Information Systems and Database Systems
Moderator: S. Chakravarthy

Panel Statement

Poster Session

Poster on A Distributed RAID VOD System
S. Nakamura, H. Minemura, T. Yamaguchi, H. Shimizu, T. Watanabe, T. Mizuno

Poster on Exception Handling in ADOME Workflow Management System
D. Chiu, K. Karlapalem, Q. Li

Poster on Transparent Access to a Network of Information Sources and Service Providers via a Universal Relation Interface
C. Reck

Poster on A Terminology Server for Cooperative Terminology Work
B. von Buol, S. Kethers, M. Jeusfeld, M. Jarke

Poster on Accept Heterogeneity: An Event Monitoring Service for CORBA-based Heterogeneous Information Systems
G. von Bultzingsloewen, A. Koschel, R. Kramer

Poster on Electronic Circulation of Copyrighted Information in CSCW Environments
A. Wadaa, S. Shen, M. Eltoweissy

Poster on Rule-based Technology for Schema Transformation
Y. Chen, W. Benn

Index of Authors