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This index covers all technical items - papers, correspondence, reviews, etc. that appeared in this periodical during 2002, and items from previous years that were commented upon or corrected in 2002. Departments and other items may be also covered if they have been judged to have archival value.

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Ng, R.T., + , T-KDE Sep-Oct 02 1003-1016
efficient join-index-based spatial-join processing, clustering
approach . Shekhar, S., + , T-KDE Nov-Dec 02 1400-1421
geospatial data modeling, database perspective. Voisard, A., + ,
T-KDE Mar-Apr 02 226-243
spatio-temporal predicates. Erwig, M., + , T-KDE Jul-Aug 02
881-901

Special purpose computers; cf. Database machines
Specification languages
constraint optim. problem solving from CLP-style specs. using
heuristic search techs. Dasgupta, P., + , T-KDE Apr 02
353-368

Statistical analysis
statistical method for estimating usefulness of text databases.
King-Lup Liu, + , T-KDE Nov-Dec 02 1422-1437
unsupervised learning with mixed numeric and nominal data. Li, C.,
+ , T-KDE Jul-Aug 02 673-690

Statistical analysis; cf. Statistical databases
Statistical databases
stat. disclosure control, data-oriented microaggregation.
Domingo-Ferrer, J., + , T-KDE Jan-Feb 02 189-201

Statistics; cf. Decision theory; Statistical analysis; Time series
Stochastic programming
range query retrieval problems, stochastic prog. approach. Xian Liu,
+ , T-KDE Jul-Aug 02 867-880

String matching
3D-List, video query proc. data struct. Chih-Chih Liu, + , T-KDE
Jan-Feb 02 106-122
password quality tester, connectionist algm. Duffy, N., + , T-KDE
Jul-Aug 02 920-922

Subroutines
algorithms for finding attribute value group for binary segmentation
of categorical databases . Morimoto, Y., + , T-KDE Nov-Dec 02
1269-1279
differential A*. Trovato, K.L., + , T-KDE Nov-Dec 02 1218-1229

+ Check author entry for coauthors
fast algorithms for online generation of profile association rules. Aggarwai, C.C., + , T-KDE Sep-Oct 02 1017-1028
HAL, faster match algorithm. Pou-Yung Lee, + , T-KDE Sep-Oct 02 1047-1058
local reasoning and knowledge compilation for efficient temporal abduction. Console, L., + , T-KDE Nov-Dec 02 1230-1248

Synchronization
EVE approach; view synchronization in dynamic distributed environments. Lee, A.J., + , T-KDE Sep-Oct 02 931-954

Systems analysis
SEAM, state-entity-activity-model for well-defined workflow develop. methodology. Bajaj, A., + , T-KDE Mar-Apr 02 415-431

Systems analysis; cf. Entity-relationship modeling; Object-oriented methods; Systems re-engineering; Task analysis

Systems re-engineering
database data dependency recovery. Hee Beng Kuan Tan, T-KDE Jul-Aug 02 825-835

Systems software; cf. Operating systems (computers)

Task analysis
task struct. verification, high-level Petri net-based approach. Lee, J., + , T-KDE Mar-Apr 02 316-335

Telecommunication; cf. Data communication; Mobile communication
Telecommunication services; cf. Quality of service

Temporal databases
data hashing methods. Kolios, G., + , T-KDE Jul-Aug 02 902-919
event matching language for querying temporal data. Tsc S. Cheng, + , T-KDE Sep-Oct 02 1119-1125
knowledge discovery paradigms and methods. Roddick, J.F., + , T-KDE Jul-Aug 02 750-767
spatio-temporal predicates. Erwig, M., + , T-KDE Jul-Aug 02 881-901

Temporal reasoning
local reasoning and knowledge compilation for efficient temporal abduction. Console, L., + , T-KDE Nov-Dec 02 1230-1248

Terrain mapping
efficient path computation model for hierarchically structured topographical road maps. Sungwon Jung, + , T-KDE Sep-Oct 02 1029-1046

Testing
act. database trigger condition testing and view maint. using optimized discrim. networks. Hanson, E.N., + , T-KDE Mar-Apr 02 261-280

Theorem proving
finite satisfiability of integrity constraints in OO database schemas. Formica, A., T-KDE Jan-Feb 02 123-139

Time series
temporal knowledge discovery paradigms and methods. Roddick, J.F., + , T-KDE Jul-Aug 02 750-767

Topography (Earth)
efficient path computation model for hierarchically structured topographical road maps. Sungwon Jung, + , T-KDE Sep-Oct 02 1029-1046

Topology
spatio-temporal predicates. Erwig, M., + , T-KDE Jul-Aug 02 881-901

Topology; cf. Graph theory

Transaction processing
flexible robust programming in distributed object systems. Ahamad, M., + , T-KDE Sep-Oct 02 1126-1140
multiversion locking protocol with freezing for secure real-time database systems. Park, C., + , T-KDE Sep-Oct 02 1141-1154
presumed-either two-phase commit protocol. Attaluri, G.K., + , T-KDE Sep-Oct 02 1190-1196
real-time act. database systs. concurrency control. Datta, A., + , T-KDE May-Jun 02 465-484

recovery from malicious transactions. Ammann, P., + , T-KDE Sep-Oct 02 1167-1185
Scheduling transactions with temporal constraints, exploiting data semantics. Ming Xiong, + , T-KDE Sep-Oct 02 1155-1166
transaction processing in mobile, heterogeneous database systems. Lim, J.B., + , T-KDE Nov-Dec 02 1330-1346

Tree data structures
approx. similarity search in high-dimens. spaces. Chen Li, + , T-KDE Jul-Aug 02 792-808
high-dimens. similarity joins. Shim, K., + , T-KDE Jan-Feb 02 156-171
Pincer search for max. frequent set discovery. Dao-I Lin, + , T-KDE May-Jun 02 553-566
slim-trees for fast indexing and visualization of metric data sets. Traina, C., Jr., + , T-KDE Mar-Apr 02 244-260
unsupervised learning with mixed numeric and nominal data. Li, C., + , T-KDE Jul-Aug 02 673-690

Tree searching
constraint optim. problem solving from CLP-style specs. using heuristic search techs. Dasgupta, P., + , T-KDE Mar-Apr 02 353-368
optimized assoc. rules mining with categorial and numeric attributes. Rastogi, R., + , T-KDE Jan-Feb 02 29-50
Pincer search for max. frequent set discovery. Dao-I Lin, + , T-KDE May-Jun 02 553-566
slim-trees for fast indexing and visualization of metric data sets. Traina, C., Jr., + , T-KDE Mar-Apr 02 244-260

Trees (mathematics)
instance-weighting method, cost-sensitive tree induction. Kai Ming Ting, T-KDE May-Jun 02 659-665
Trees (mathematics); cf. Decision trees

Uncertain systems; cf. Fuzzy systems

Uncertainty handling
obj. databases, multiple, integrated, efficient query proc. with “maybe” result certification. Jia-Ling Koh, + , T-KDE Jul-Aug 02 691-708

Unsupervised learning
mixed numeric/nominal data. Li, C., + , T-KDE Jul-Aug 02 673-690

User interfaces; cf. Natural language interfaces

Utility programs; cf. Application program interfaces

Value engineering
algorithms for finding attribute value group for binary segmentation of categorical databases. Morimoto, Y., + , T-KDE Nov-Dec 02 1269-1279

Very large databases
approx. similarity search in high-dimens. spaces. Chen Li, + , T-KDE Jul-Aug 02 792-808
optimized assoc. rules mining with categorial and numeric attributes. Rastogi, R., + , T-KDE Jan-Feb 02 29-50
parallel data mining, skewness and workload bal. Cheung, D.W., + , T-KDE May-Jun 02 498-514
Pincer search for max. frequent set discovery. Dao-I Lin, + , T-KDE May-Jun 02 553-566
redefining clustering for high-dimens. appls. Aggarwal, C.C., + , T-KDE Mar-Apr 02 210-225
seq. pattern mining with regular expression constraints. Garofalakis, M., + , T-KDE May-Jun 02 530-552
temporal knowledge discovery paradigms and methods. Roddick, J.F., + , T-KDE Jul-Aug 02 750-767

+ Check author entry for coauthors
Web document retrieval, query relax. by struct. and semantics. Wen-Syan Li, + , T-KDE Jul-Aug 02 768-791

**Very large databases; cf. Data warehouses**

**Video databases**

3D-List, video query proc. data struct. Chih-Chih Liu, + , T-KDE Jan-Feb 02 106-122

presentation planning for distributed VoD systems. Eenjun Hwang, + , T-KDE Sep-Oct 02 1059-1077

**Video equipment; cf. Video servers**

**Video on demand**

interactive VOD systs. sizing and resource allocation, perform. models. Leung, M.Y.Y., + , T-KDE May-Jun 02 615-637

presentation planning for distributed VoD systems. Eenjun Hwang, + , T-KDE Sep-Oct 02 1059-1077

**Video servers**

interactive VOD systs. sizing and resource allocation, perform. models. Leung, M.Y.Y., + , T-KDE May-Jun 02 615-637

**Visual databases**

approx. similarity search in high-dimens. spaces. Chen Li, + , T-KDE Jul-Aug 02 792-808

finding subj. of photographic image. Rowe, N.C., T-KDE Jan-Feb 02 202-207

geospatial data modeling, database perspective. Voisard, A., + , T-KDE Mar-Apr 02 226-243

**Visual languages**

graphical query language, VISUAL and its query processing. Balkir, N.H., + , T-KDE Sep-Oct 02 955-978

**Vocabulary**

cocab. partitioning into structurally/semantically uniform concept groups using OO database modeling. Li-min Liu, + , T-KDE Jul-Aug 02 850-866

**Workflow management software**

SEAM, state-entity-activity-model for well-defined workflow develop. methodology. Bajaj, A., + , T-KDE Mar-Apr 02 415-431

**ImageMap, image indexing method based on spatial similarity. Petakis, E.G.M., + , T-KDE Sep-Oct 02 979-987**

object-oriented fuzzy data model for similarity detection in image databases. Majumdar, A.K., + , T-KDE Sep-Oct 02 1186-1189

SemQuery, semantic clustering and querying on heterogeneous features for visual data. Sheikholeslami, G., + , T-KDE Sep-Oct 02 988-1002

spatio-temporal predicates. Erwig, M., + , T-KDE Jul-Aug 02 881-901

**Visual databases; cf. Video databases**

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