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# Expert Systems With Applications International Journal

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Database and Expert Systems Applications

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15th International Workshop on Database and Expert Systems Applications

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Industrial and Engineering Applications of Artificial Intelligence and Expert Systems

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**HOLLAND LIZETH**

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*Database and Expert  
Systems Applications*  
Springer  
DEXA 2005, the 16th  
International Conference  
on Database and Expert  
Systems Applications, was  
held at the Copenhagen

Business School,  
Copenhagen, Denmark,  
from August 22 to 26,  
2005. The success of the  
DEXA series has partly  
been due to the way in  
which it has kept abreast  
of recent developments  
by spawning specialized  
workshops and  
conferences each with its  
own proceedings. In 2005  
the DEXA programme was  
co-located with the 7th

International Conference  
on Data Warehousing and  
Knowledge Discovery  
[DaWaK 2005], the 6th  
International Conference  
on Electronic Commerce  
and Web Technologies  
[EC-Web 2005], the 4th  
International Conference  
on Electronic Government  
[EGOV 2005], the 2nd  
International Conference  
on Trust, Privacy, and  
Security in Digital

Business [TrustBus 2005], the 2nd International Conference on Industrial Applications of Holonic and Multi-agent Systems [HoloMAS 2005], as well as 19 specialized workshops. These proceedings are the result of a considerable amount of hard work. Beginning with the preparation of submitted papers, the papers went through the reviewing process. This process was supported by online discussion between the reviewers to determine the final conference program. The

authors of accepted papers revised their manuscripts to produce this fine collection. DEXA 2005 received 390 submissions, and from those the Program Committee selected the 92 papers in these proceedings. This year the reviewing process generated more than 1000 referee reports. The hard work of the authors, the referees and the Program Committee is gratefully acknowledged. *Database and Expert Systems Applications* Springer

This two volume set LNCS 9261 and LNCS 9262 constitutes the refereed proceedings of the 26th International Conference on Database and Expert Systems Applications, DEXA 2015, held in Valencia, Spain, September 1-4, 2015. The 40 revised full papers presented together with 32 short papers, and 2 keynote talks, were carefully reviewed and selected from 125 submissions. The papers discuss a range of topics including: temporal, spatial and high

dimensional databases; semantic Web and ontologies; modeling, linked open data; NoSQL, NewSQL, data integration; uncertain data and inconsistency tolerance; database system architecture; data mining, query processing and optimization; indexing and decision support systems; modeling, extraction, social networks; knowledge management and consistency; mobility, privacy and security; data streams, Web services; distributed, parallel and

cloud databases; information retrieval; XML and semi-structured data; data partitioning, indexing; data mining, applications; WWW and databases; data management algorithms. These volumes also include accepted papers of the 8th International Conference on Data Management in Cloud, Grid and P2P Systems, Globe 2015, held in Valencia, Spain, September 2, 2015. The 8 full papers presented were carefully reviewed and selected from 13

submissions. The papers discuss a range of topics including: MapReduce framework: load balancing, optimization and classification; security, data privacy and consistency; query rewriting and streaming. [15th International Workshop on Database and Expert Systems Applications](#) CRC Press This two-volume set, LNCS 12923 and 12924, constitutes the thoroughly refereed proceedings of the 5th International Conference on Database and Expert Systems

Applications, DEXA 2021. Due to COVID-19 pandemic, the conference was held virtually. The 37 full papers presented together with 31 short papers in these volumes were carefully reviewed and selected from a total of 149 submissions. The papers are organized around the following topics: big data; data analysis and data modeling; data mining; databases and data management; information retrieval; prediction and decision support.  
Database and Expert

Systems Applications  
Springer  
The field of artificial intelligence has been maturing for a number of years and has inspired many researchers to produce innovative intelligent systems to demonstrate the capability of intelligent machines and their success in solving human problems. Only recently, however, have intelligent systems shown progress in demonstrating success in real-life applications, particularly in industrial environments. Many

organizations have successfully used at least some limited aspects of intelligent research in their day-to-day operations. The objectives of this volume are to focus on these real-life applications and report a comprehensive view of the theoretical and applied aspects of intelligent systems technology. The most recent work in industrial, commercial, military, and academic environments is summarized, including 61 state-of-the-art reports on active research applied to

real world problems.

**Database and Expert Systems Applications**

Springer Nature

"This book examines the use of fuzzy expert systems in the agricultural field"--

**Database and Expert Systems Applications**

MIT Press

The Database and Expert Systems Applications (DEXA) conferences bring together researchers and practitioners from all over the world to exchange ideas, experiences and opinions in a friendly and stimulating environment.

The papers are at once a record of what has been achieved and the first steps towards shaping the future of information systems. DEXA covers a broad field, and all aspects of database, knowledge base and related technologies and their applications are represented. Once again there were a good number of submissions: 241 papers were submitted and of these the programme committee selected 103 to be presented. DEXA'99 took place in Florence and

was the tenth conference in the series, following events in Vienna, Berlin, Valencia, Prague, Athens, London, Zurich, Toulouse and Vienna. The decade has seen many developments in the areas covered by DEXA, developments in which DEXA has played its part. I would like to express thanks to all the institutions which have actively supported and made possible this conference, namely: • University of Florence, Italy • IDG CNR, Italy • FAW – University of Linz,

Austria • Austrian Computer Society • DEXA Association In addition, we must thank all the people who have contributed their time and effort to make the conference possible. Special thanks go to Maria Schweikert (Technical University of Vienna), M. Neubauer and G. Wagner (FAW, University of Linz). We must also thank all the members of the programme committee, whose careful reviews are important to the quality of the conference. Database and Expert

Systems Applications Springer  
th 2002 DEXA, the 13 International Conference on Database and Expert Systems Applications was held on September 2–6, 2002, at the Université Aix-Marseille II, France. The quickly growing field of information systems required the establishment of more specialized discussion platforms (the DaWaK conference, EC-Web conference, eGOV conference and DEXA workshops), and there were held in parallel with

DEXA, also in Aix-en-Provence. The resulting book was prepared with great effort. Starting with the preparation of submitted papers, the papers went through the reviewing process. The accepted papers were revised to final versions by their authors and arranged to the conference program. This year 241 papers were submitted and our thanks go to all who have contributed. The program committee and the supporting reviewers produced altogether



about 730 referee reports, on average three reports per paper, and selected 89 papers for presentation. The papers presented here encompass the extensive domain of databases; together with the other conferences and workshops of the DEXA event cluster a vast part of applied computer science was covered. In this way DEXA has blazed the trail. At this point we would like to acknowledge to all institutions which actively supported this conference and made it

possible. These are: • IUT (Université Aix – Marseille II), • FAW, • DEXA Association, • the Austrian Computer Society, • and Microsoft Research  
Database and Expert Systems Applications  
Springer  
This two-volume set, LNCS 12923 and 12924, constitutes the thoroughly refereed proceedings of the 5th International Conference on Database and Expert Systems Applications, DEXA 2021. Due to COVID-19 pandemic, the conference was held virtually. The 37

full papers presented together with 31 short papers in these volumes were carefully reviewed and selected from a total of 149 submissions. The papers are organized around the following topics: big data; data analysis and data modeling; data mining; databases and data management; information retrieval; prediction and decision support.  
*Industrial and Engineering Applications of Artificial Intelligence and Expert Systems* Springer  
This book constitutes the

refereed proceedings of the 19th International Conference on Database and Expert Systems Applications, DEXA 2008, held in Turin, Italy, in September 2008. The 74 revised full papers presented together with 1 invited paper were carefully reviewed and selected from 208 submissions. The papers are organized in topical sections on data privacy; temporal, spatial and high dimensional databases; semantic Web and ontologies; query processing; Web and

information retrieval; mobile data and information; data and information streams; data mining algorithms; multimedia databases; data mining systems, data warehousing, OLAP; data and information semantics; XML databases; applications of database, information, and decision support systems; and schema, process and knowledge modelling and evolution. Database and Expert Systems Applications Springer  
The Database and Expert

Systems Applications (DEXA) conferences bring together researchers and practitioners from all over the world to exchange ideas, experiences and opinions in a friendly and stimulating environment. The papers are at once a record of what has been achieved and the first steps towards shaping the future of information systems. DEXA covers a broad field, and all aspects of database, knowledge base and related technologies and their applications are represented. Once again

there were a good number of submissions: 241 papers were submitted and of these the programme committee selected 103 to be presented. DEXA'99 took place in Florence and was the tenth conference in the series, following events in Vienna, Berlin, Valencia, Prague, Athens, London, Zurich, Toulouse and Vienna. The decade has seen many developments in the areas covered by DEXA, developments in which DEXA has played its part. I would like to express

thanks to all the institutions which have actively supported and made possible this conference, namely: • University of Florence, Italy • IDG CNR, Italy • FAW – University of Linz, Austria • Austrian Computer Society • DEXA Association In addition, we must thank all the people who have contributed their time and effort to make the conference possible. Special thanks go to Maria Schweikert (Technical University of Vienna), M. Neubauer and G. Wagner

(FAW, University of Linz). We must also thank all the members of the programme committee, whose careful reviews are important to the quality of the conference.

### **Database and Expert Systems Applications**

Springer Nature

This book constitutes the refereed proceedings of the 20th International Conference on Database and Expert Systems Applications, DEXA 2009, held in Linz, Austria, in August/September 2009. The 35 revised full papers and 35 short papers

presented were carefully reviewed and selected from 202 submissions. The papers are organized in topical sections on XML and databases; Web, semantics and ontologies; temporal, spatial, and high dimensional databases; database and information system architecture, performance and security; query processing and optimisation; data and information integration and quality; data and information streams; data mining algorithms; data and information

modelling; information retrieval and database systems; and database and information system architecture and performance.

Database and Expert Systems Applications  
Springer

This two volume set LNCS 9261 and LNCS 9262 constitutes the refereed proceedings of the 26th International Conference on Database and Expert Systems Applications, DEXA 2015, held in Valencia, Spain, September 1-4, 2015. The 40 revised full papers

presented together with 32 short papers, and 2 keynote talks, were carefully reviewed and selected from 125 submissions. The papers discuss a range of topics including: temporal, spatial and high dimensional databases; semantic Web and ontologies; modeling, linked open data; NoSQLm NewSQL, data integration; uncertain data and inconsistency tolerance; database system architecture; data mining, query processing and optimization;

indexing and decision support systems; modeling, extraction, social networks; knowledge management and consistency; mobility, privacy and security; data streams, Web services; distributed, parallel and cloud databases; information retrieval; XML and semi-structured data; data partitioning, indexing; data mining, applications; WWW and databases; data management algorithms. These volumes also include accepted papers of the 8th International

Conference on Data Management in Cloud, Grid and P2P Systems, Globe 2015, held in Valencia, Spain, September 2, 2015. The 8 full papers presented were carefully reviewed and selected from 13 submissions. The papers discuss a range of topics including: MapReduce framework: load balancing, optimization and classification; security, data privacy and consistency; query rewriting and streaming. *Database and Expert Systems Applications*

Springer  
This book contains the refereed proceedings of the 8th International Conference on Database and Expert Systems Applications, DEXA '97, held in Toulouse, France, September 1997. The 62 revised full papers presented in the book, together with three invited contributions, were selected from a total of 159 submissions. The papers are organized in sections on modeling, object-oriented databases, active and temporal aspects, images,

integrity constraints, multimedia databases, deductive databases and knowledge-based systems, allocation concepts, data interchange, digital libraries, transaction concepts, learning issues, optimization and performance, query languages, maintenance, federated databases, uncertainty handling and qualitative reasoning, and software engineering and reusable software.  
Database and Expert Systems Applications, International Workshop on

Springer  
 This volume constitutes the refereed proceedings of the three workshops held at the 31st International Conference on Database and Expert Systems Applications, DEXA 2020, held in September 2020: The 11th International Workshop on Biological Knowledge Discovery from Data, BIODDD 2020, the 4th International Workshop on Cyber-Security and Functional Safety in Cyber-Physical Systems, IWCFS 2020, the 2nd International

Workshop on Machine Learning and Knowledge Graphs, MLKgraphs2019. Due to the COVID-19 pandemic the conference and workshops were held virtually. The 10 papers were thoroughly reviewed and selected from 15 submissions, and discuss a range of topics including: knowledge discovery, biological data, cyber security, cyber-physical system, machine learning, knowledge graphs, information retriever, data base, and artificial intelligence.  
**Database and Expert**

## Systems Applications

Springer

This two volume set LNCS 10438 and LNCS 10439 constitutes the refereed proceedings of the 28th International Conference on Database and Expert Systems Applications, DEXA 2017, held in Lyon, France, August 2017. The 37 revised full papers presented together with 40 short papers were carefully reviewed and selected from 166 submissions. The papers discuss a range of topics including: Semantic Web and Semantics; Graph

Matching; Data Modeling, Data Abstraction, and Uncertainty; Preferences and Query Optimization; Data Integration and RDF Matching; Security and Privacy; Web Search; Data Clustering; Top-K and Skyline Queries; Data Mining and Big Data; Service Computing; Continuous and Temporal Data, and Continuous Query Language; Text Processing and Semantic Search; Indexing and Concurrency Control Methods; Data Warehouse and Data Stream Warehouse; Data Mining

and Machine Learning; Recommender Systems and Query Recommendation; Graph Algorithms; Semantic Clustering and Data Classification.

*Database and Expert Systems Applications*  
Springer Nature

st We welcome you to the proceedings of the 21 International Conference on Database and Expert Systems Applications held in Bilbao. With information and database systems being a central topic of computer science, it was to be expected that the

integration of knowledge, information and data is today contributing to the again rapidly increasing attractiveness of this field for researchers and practitioners. Since its foundation in 1990, DEXA has been an annual international conference, located in Europe, which showcases state-of-the-art research activities in these areas. DEXA 2010 continued this tradition and provided a forum for presenting and discussing research results in the area of database and intelligent systems and

advanced - search topics, applications and practically relevant issues related to these areas. It offered attendees the opportunity to extensively discuss requirements, problems, and solutions in the field in the pleasant atmosphere of the city of Bilbao, which is known for its driving industriousness, its top cultural venues and its rich and inspiring heritage and lifestyle. The University of Deusto with its great educational and research traditions, and the hospitality which the

university and the city are so famous for, set the stage for this year's DEXA conference. This volume contains the papers selected for presentation at the DEXA conference. *Database and Expert Systems Applications* Springer Science & Business Media  
This two volume set of LNCS 11029 and LNCS 11030 constitutes the refereed proceedings of the 29th International Conference on Database and Expert Systems Applications, DEXA 2018, held in Regensburg,



Germany, in September 2018. The 35 revised full papers presented together with 40 short papers were carefully reviewed and selected from 160 submissions. The papers of the first volume discuss a range of topics including: Big data analytics; data integrity and privacy; decision support systems; data semantics; cloud data processing; time series data; social networks; temporal and spatial databases; and graph data and road networks. The papers of the second

volume discuss a range of the following topics: Information retrieval; uncertain information; data warehouses and recommender systems; data streams; information networks and algorithms; database system architecture and performance; novel database solutions; graph querying and databases; learning; emerging applications; data mining; privacy; and text processing. Database and Expert Systems Applications Engineering Science

Reference  
th 2002 DEXA, the 13 International Conference on Database and Expert Systems Applications was held on September 2-6, 2002, at the Université Aix-Marseille II, France. The quickly growing field of information systems required the establishment of more specialized discussion platforms (the DaWaK conference, EC-Web conference, eGOV conference and DEXA workshops), and there were held in parallel with DEXA, also in Aix-en-

Provence. The resulting book was prepared with great effort. Starting with the preparation of submitted papers, the papers went through the reviewing process. The accepted papers were revised to final versions by their authors and arranged to the conference program. This year 241 papers were submitted and our thanks go to all who have contributed. The program committee and the supporting reviewers produced altogether about 730 referee reports,

on average three reports per paper, and selected 89 papers for presentation. The papers presented here encompass the extensive domain of databases; together with the other conferences and workshops of the DEXA event cluster a vast part of applied computer science was covered. In this way DEXA has blazed the trail. At this point we would like to acknowledge to all institutions which actively supported this conference and made it possible. These are: • IUT

(Université Aix – Marseille II), • FAW, • DEXA Association, • the Austrian Computer Society, • and Microsoft Research Neural Network Learning and Expert Systems Springer  
This volume constitutes the proceedings of the 5th International Conference on Database and Expert Systems Applications (DEXA '94), held in Athens, Greece in September 1994. The 78 papers presented were selected from more than 300 submissions and give a comprehensive view of

advanced applications of databases and expert systems. Among the topics covered are object-oriented, temporal, active, geographical, hypermedia and distributed databases, data management, cooperative office applications, object-oriented modelling, industrial applications, conceptual modelling, legal systems, evolving environments, knowledge engineering, information retrieval, advanced querying, medical

systems, and CIM. Database and Expert Systems Applications Springer Science & Business Media  
This book constitutes the refereed proceedings of the 7th International Conference on Database and Expert Systems Applications, DEXA '96, held in Zurich, Switzerland, in September 1996. The 77 revised full papers included were selected from a total of nearly 200 submissions. They report on a broad

spectrum of advanced applications and the design of database and expert systems. Among the topics addressed are object-oriented databases, active databases, temporal databases, transactions and concurrency, relational databases, CSCW and workflow systems, parallel and distributed systems, expert systems, knowledge-based systems, and information retrieval.