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with the 23rd  
International  
Conference on  
Conceptual Modeling,  
ER 2004, in Shanghai,  
China in November  
2004. The 56 revised  
full papers presented  
were carefully reviewed  
and selected from 163  
submissions. The  
papers are organized in  
topical sections on

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geographical  
conceptual modeling;  
spatial storage,  
indexing, and data  
consistency; spatial  
representation and  
spatial services; spatial  
queries and retrieval,  
Web information  
integration; Web  
information mining;  
conceptual models for  
Web information; Web

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information systems  
and Webservices;  
systems evolution  
support in conceptual  
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and evolution aspects  
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information systems;  
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versioning in data  
management;  
conceptual modeling  
of agents; agents

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applications; digital government systems; digital government technologies; e-business systems requirements engineering; and e-business processes and infrastructure.

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research on data warehouse design, with many references to more detailed sources. It offers a clear and a concise presentation of the major concepts and results in the subject area. Malinowski and Zimányi explain conventional data warehouse design in detail, and additionally

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address two innovative domains recently introduced to extend the capabilities of data warehouse systems: namely, the management of spatial and temporal information.

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modeling. A new chapter exemplifies the emerging use and analysis of big data in a geographic context. Part B offers rigorous descriptions of gathering, processing and coding of geographic information in a standardized way to allow interoperable use

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in a variety of systems;  
from traditional  
methods such as  
geodesy and surveying  
to state-of-the-art  
remote sensing and  
photogrammetry; from  
cartography to  
geospatial web services.  
Discussions on  
geosemantic  
interoperability and  
security of open

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distributed geospatial information systems complete the comprehensive coverage. The final part describes a wide array of applications in science, industry and society at large, such as agriculture, defense, transportation, energy and utilities, health and human services. The

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part is enhanced by new chapters on smart cities and building information modeling, as well as a complete overview of the currently available open-source geographic information systems. Using standardized international terminology, in

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accordance with  
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Pro Oracle Spatial for  
Oracle Database 11g  
shows you how to take

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advantage of Oracle Database's built-in feature set for working with location-based data. The book addresses the special nature of spatial data and its role in professional and consumer applications. It also details issues in spatial data management and



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covers how spatial information is used to understand business and support decisions, to manage customer relations, and to better serve private and corporate users. When you read this book, you're learning from the very best, the authors are key players on the team that

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develops the Oracle  
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From Conventional to  
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Now available in paperback— Pro Oracle Spatial for Oracle Database 11g shows how to take advantage of Oracle Databases built-in feature set for working with location-based data. A great deal of the information used in business today is

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associated with location in some way, and analysis of that data is becoming ever more important in today's mobile and highly connected world. In Pro Oracle Spatial for Oracle Database 11g, authors Ravi Kothuri and Albert Godfrind address:

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The special nature of spatial data and its role in professional and consumer applications Issues in spatial data management such as modeling, storing, accessing, and analyzing spatial data The Oracle Spatial solution and the integration of

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spatial data into  
enterprise databases

How spatial  
information is used  
to understand  
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Ravi Kothuri is a key  
member of Oracle's  
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team. Albert

Godfrind consults  
widely with Oracle  
clients on the  
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develops training



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courses, and  
presents frequently  
at conferences.

Together they have  
crafted a technically  
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data in the Oracle  
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Applied Spatial Data  
Analysis with R,

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second edition, is divided into two basic parts, the first presenting R packages, functions, classes and methods for handling spatial data. This part is of interest to users who need to access and visualise spatial data. Data import and export for

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many file formats for spatial data are covered in detail, as is the interface between R and the open source GRASS GIS and the handling of spatio-temporal data. The second part showcases more specialised kinds of spatial data analysis, including

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spatial point pattern  
analysis,

interpolation and  
geostatistics, areal  
data analysis and  
disease mapping.  
The coverage of  
methods of spatial  
data analysis ranges  
from standard  
techniques to new  
developments, and  
the examples used

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are largely taken from the spatial statistics literature. All the examples can be run using R contributed packages available from the CRAN website, with code and additional data sets from the book's own website.

Compared to the first

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edition, the second edition covers the more systematic approach towards handling spatial data in R, as well as a number of important and widely used CRAN packages that have appeared since the first edition. This book will be of interest to

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researchers who intend to use R to handle, visualise, and analyse spatial data. It will also be of interest to spatial data analysts who do not use R, but who are interested in practical aspects of implementing software for spatial data analysis. It is a

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suitable companion  
book for introductory  
spatial statistics  
courses and for  
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courses in a wide  
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including human and  
physical geography,  
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the environmental sciences, ecology, public health and disease control, economics, public administration and political science. The book has a website where complete code examples, data sets, and other support material may be found: <http://www>

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.asdar-book.org. The authors have taken part in writing and maintaining software for spatial data handling and analysis with R in concert since 2003. The authors explore and explain current techniques for handling the specialised data that

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describes geographical phenomena in a study that will be of great value to computer scientists and geographers working with spatial databases.

This book is an advanced practical guide to applying and extending

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Oracle Spatial. This book is for existing users of Oracle and Oracle Spatial who have, at a minimum, basic operational experience of using Oracle or an equivalent database. Advanced skills are not required.

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mainly focused  
on two themes:  
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technology is an  
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computing and  
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systems;  
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Text data that is  
associated with  
location data has  
become ubiquitous.

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A tweet is an example of this type of data, where the text in a tweet is associated with the location where the tweet has been issued. We use the term spatial-keyword data to refer to this type of data. Spatial-keyword data is

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being generated at  
massive scale.

Almost all online transactions have an associated spatial trace. The spatial trace is derived from GPS coordinates, IP addresses, or cell-phone-tower locations. Hundreds of millions or even

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billions of spatial-keyword objects are being generated daily. Spatial-keyword data has numerous applications that require efficient processing and management of massive amounts of spatial-keyword data. This book



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starts by  
overviewing some  
important  
applications of  
spatial-keyword  
data, and  
demonstrates the  
scale at which  
spatial-keyword  
data is being  
generated. Then, it  
formalizes and  
classifies the

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various types of queries that execute over spatial-keyword data. Next, it discusses important and desirable properties of spatial-keyword query languages that are needed to express queries over spatial-keyword data. As

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will be illustrated, existing spatial-keyword query languages vary in the types of spatial-keyword queries that they can support. There are many systems that process spatial-keyword queries. Systems differ from each other in

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various aspects, e.g., whether the system is batch-oriented or stream-based, and whether the system is centralized or distributed.

Moreover, spatial-keyword systems vary in the types of queries that they support. Finally,

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systems vary in the types of indexing techniques that they adopt. This book provides an overview of the main spatial-keyword data-management systems (SKDMSs), and classifies them according to their features. Moreover,

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the book describes  
the main  
approaches  
adopted when  
indexing spatial-  
keyword data in the  
centralized and  
distributed settings.  
Several case  
studies of  
{SKDMSs} are  
presented along  
with the

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applications and query types that these {SKDMSs} are targeted for and the indexing techniques they utilize for processing their queries. Optimizing the performance and the query processing of {SKDMSs} still has

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many research challenges and open problems. The book concludes with a discussion about several important and open research-problems in the domain of scalable spatial-keyword processing.

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functionality is  
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the database, thus  
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data  
structures has  
not matured  
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miscellaneous  
data  
structures,  
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that elude  
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invaluable for  
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***and for  
revealing  
application  
contexts in  
which they can  
be deployed.  
Practitioners  
devising  
algorithms will  
gain insight  
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them to solve  
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***starts with an  
overview of  
GIS  
technology,  
what GIS  
technology is,  
what it can do,  
what software  
products are  
available, etc.  
Then,  
throughout***

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***the book, the  
author  
explains with  
many case  
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programs,  
maps,  
graphics, and  
3D models  
how GIS and  
other related  
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*model, and  
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visualize large  
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patterns,  
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to make  
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***platform. It  
specifically  
focuses on  
how to use the  
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Manager, to  
create, design  
and manage  
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***NT. However,  
this book is  
appropriate  
for anyone  
who using  
Oracle  
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reading this  
book the  
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learn how to***

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***create a  
database and  
define all the  
components  
such as tables  
and indexes. It  
shows how to  
manage the  
database,  
tune it, and  
use it for Web-  
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**GUI stands for**

**Graphical User**

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**which is what  
Windows is  
based on --  
icons,  
pulldown  
menus, point  
and click  
functionality.  
Most Oracle  
databases are  
run on UNIX,**

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***which depends  
on code, and  
doesn't have  
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**A significant portion of government agencies' activities require mobile data collection and analysis in the field. To accommodate such tasks, various data sources are**

**involved to  
provide the  
supporting  
information.  
The data  
integration,  
especially  
spatial data  
integration, in  
these  
applications  
turns out to be  
a big issue due**

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**to the  
multitude and  
heterogeneity  
of possible data  
sources. An aim  
of our research  
was to develop  
a flexible and  
extensible  
infrastructure  
to facilitate the  
field  
applications**

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**with integrated  
data sources.**

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have been  
proposed to  
treat  
heterogeneous  
data sources as  
a set of object  
views. This  
object view  
approach helps  
to integrate**

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spatial database  
has been  
included as a  
new type of  
spatial data  
source. The  
CORBA-based  
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model is also**



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**implemented as  
another  
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resort for the  
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to interact with  
the data access  
component.  
Most of modern  
enterprises,  
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and  
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**rely on knowled  
ge-based  
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systems. In  
these systems,  
knowledge is  
gained from  
data analysis.  
Today, knowled  
ge-based  
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systems include  
data**

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**warehouses as  
their core**

**components.**

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in a data**

**warehouse are  
analyzed by the  
so-called On-  
Line Analytical  
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(OLAP)**

**applications  
designed to**

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**discover trends,  
patterns of  
behavior, and  
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**Massive  
amounts of  
integrated data  
and the  
complexity of  
integrated data**

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**coming from  
many different  
sources make  
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**them in**

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**through**  
**cleansing and**  
**storing, to**  
**querying, and**  
**finally for**  
**retrieval and**  
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**were jointly  
organized this year  
for the 7th time in  
a row, after some  
years of mutual  
independence  
before. After  
Freiburg (2001),  
Helsinki (2002),  
Cavtat (2003) and  
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to both. Such a  
high volume of  
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required a  
tremendous effort  
from Area Chairs,  
Program  
Committee  
members and  
some additional  
reviewers. On  
average, PC**

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**members had 10 papers to evaluate, and Area Chairs had 25 papers to decide upon. We managed to have 3 highly qualified independent reviewers per paper (with very few exceptions) and an additional overall input from one of the Area Chairs. After the authors'**

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**responses and the  
online discussions  
for many of the  
papers, we arrived  
at the final  
selection of 40  
regular papers for  
ECML and 35 for  
PKDD. Besides  
these, 32 others  
were accepted as  
short papers for  
ECML and 35 for  
PKDD. This**

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**represents a joint acceptance rate of around 13% for regular papers and 25% overall. We thank all involved for all the effort with reviewing and selection of papers. Besidethe coretechnicalprogram,ECMLandPKDD had6invitedspeakers, 10 workshops,**

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GIS in resource  
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environmental  
processes;  
applications of geo-  
informatics in  
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**sustainable  
ecosystem.**

**Spatial database  
management deals  
with the storage,  
indexing, and  
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with spatial  
features, such as  
location and  
geometric extent.  
Many applications  
require the  
efficient**

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**management of  
spatial data,  
including  
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Systems,  
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Services. The goal  
of this book is to  
provide the reader  
with an overview  
of spatial data**

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**technology, with  
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models and  
queries and  
discusses the main  
issues of extending  
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data. It presents**

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demonstrating the  
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of spatial data  
management  
technology on a  
wide range of  
related application  
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“Intelligent

systems are

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those which  
produce  
intelligent  
o?springs.” AI  
researchers have  
been focusing on  
developing and  
employing strong  
methods that are  
capable of  
solving complex  
real-life  
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Program  
Committee  
selected long  
papers from  
contributions  
presenting more  
complete work  
and posters from  
those reporting  
ongoing  
research. The  
Committee  
enforced the

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rule that only original and unpublished work could be considered for inclusion in these proceedings. The Program Committee selected 116 contributions from the 271 submitted papers

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which cover the following topics:

- arti?cial systems, search engines,
- intelligent interfaces,
- knowledge discovery,
- knowledge-based technologies,
- na- ral language processing,

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machine learning applications, reasoning technologies, uncertainty management, applied data mining, and technologies for knowledge management. The contributions oriented to the technological

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aspects of AI  
and the quality  
of the papers  
are witness to a  
research  
activity clearly  
aimed at  
consolidating  
the theoretical  
results that  
have already  
been achieved.  
The conference  
program also

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included two  
invited

lectures, by  
Katharina Morik  
and Roberto  
Pieraccini. Many  
people contribute  
different ways to  
the success of the  
conference and to  
this volume. The  
authors who  
continue to show  
their



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enthusiastic  
interest in  
applied  
intelligence  
research are a  
very important  
part of our  
success. We  
highly  
appreciate the  
contribution of  
the members of  
the Program  
Committee, as

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well as others  
who reviewed all  
the submitted  
papers with  
efficiency and  
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complexities  
have spawned  
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visualization,  
and spatial  
statistics are  
being used to  
capture, store,  
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complex  
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of the universe.  
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have been  
applied in  
various fields  
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forestry,  
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health, homeland  
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the study, use,  
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to link various  
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and the IT industry  
copes to reach the  
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characteristics and  
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