

DBKDA 2024

The Sixteenth International Conference on Advances in Databases, Knowledge, and Data Applications

March 10th –14th, 2024 Athens, Greece

DBKDA 2024 Editors

Andreas Schmidt, University of Applied Sciences Karlsruhe, Germany

Erik Buchmann, Universität Leipzig, Germany

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571

Some format issues inherent in	ı the e-media v	ersion may also	appear in this print	version.
Some for mar issues inner ent i	i die e incuia i	Cibion inaj aibo	appear in time print	, i ci bioii.

Copyright© (2024) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed with permission by Curran Associates, Inc. (2024)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

MosaicDB: An Efficient Trusted / Untrusted Memory Management for Location Data in Database Tomoya Suzuki, Taisho Sasada, Yuzo Taenaka, and Youki Kadobayashi	
Implementing the draft Graph Query Language Standard: The Financial Benchmark Malcolm Crowe and Fritz Laux	7
Constructing and Analyzing Different Density Graphs for Path Extrapolation in Wikipedia Martha Sotiroudi, Anastasia-Sotiria Toufa, and Constantine Kotropoulos	12
Web Components for Database Developers Andreas Schmidt and Tobias Munch	20