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Paolo Manghi · Giorgio Maria Di Nunzio ·
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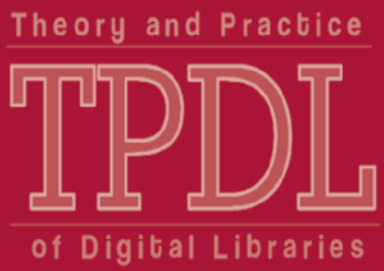
LNCS 13541

Linking Theory and Practice of Digital Libraries

26th International Conference on Theory and Practice of Digital Libraries, TPDL 2022
Padua, Italy, September 20–23, 2022, Proceedings



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ISSN 0302-9743 ISSN 1611-3349 (electronic)
Lecture Notes in Computer Science
ISBN 978-3-031-16801-7 ISBN 978-3-031-16802-4 (eBook)
https://doi.org/10.1007/978-3-031-16802-4

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Preface

These proceedings contain the full papers, short papers, and accelerating innovation papers selected for presentation at the 26th International Conference on Theory and Practice of Digital Libraries (TPDL 2022)[1]. The event was organized by the Information Management Systems (IMS) research group[2] of the Department of Information Engineering[3] of the University of Padua[4], Italy. The conference was held from September 20 to September 23, 2022, in Padua, Italy.

Over the years TPDL has established an important international forum focused on digital libraries and associated technical, practical, and social issues. TPDL encompasses the many meanings of the term digital libraries, including new forms of information institutions; operational information systems with all manner of digital content; new means of selecting, collecting, organizing, and distributing digital content; and theoretical models of information media, including document genres and electronic publishing. Digital libraries may be viewed as a new form of information institution or as an extension of the services libraries currently provide.

TPDL historically approached digital libraries embracing the field at large, and also recognizing three key areas of interest that can be synthesized as scholarly communication (e.g., research data, research software, digital experiments, digital libraries), e-science/computationally-intense research (e.g., scientific workflows, virtual research environments, reproducibility) and library, archive, and information science (e.g., governance, policies, open access, open science).

TPDL 2022 received a total of 107 submissions in three categories: 51 full papers, 50 short papers, and 6 accelerating innovation papers.

Full papers present high quality, original research of relevance to the TPDL community. Submissions should detail their methods and techniques in sufficient detail to enable replication and reuse. The accepted papers are published in these conference proceedings and were presented as long conference talks.

Short papers present high quality, original research or tools or applications that are of relevance to the TPDL community. The accepted papers are published in these conference proceedings and were presented as short conference talks.

Finally, the newly introduced "accelerating innovation" papers aim to speed up the transfer and exchange of new ideas and late-breaking results in order to accelerate and drive innovation. The accepted papers were presented in a gong show-style and with a poster at the conference.

The geographical distribution of the authors of the submitted papers was as follows: 81.3% were from Europe (38.5% from Germany, 18% from Italy, and 15% from Greece),

[1] http://tpdl2022.dei.unipd.it/.
[2] http://ims.dei.unipd.it/.
[3] http://www.dei.unipd.it/.
[4] http://www.unipd.it/en/.

8.3% from Asia, 8% from North and South America, 1.2% from Africa, and 0.6% from Australasia.

All submissions were reviewed by at least three members of an international Program Committee and by one senior meta-reviewer. Of the full papers submitted to the conference, 18 were accepted for oral presentation (35%), nine were accepted as short papers (17.6%), and two as accelerating innovation papers (0.04%). Of the short papers, 18 were accepted for oral presentation (36%) and 10 were accepted as accelerating innovation papers (20%). Finally, TPDL 2022 accepted four out of the six submitted accelerating innovation papers.

We thank all Program Committee members for their time and effort in ensuring the high quality of the TPDL 2022 program.

Additionally, TPDL 2022 hosted two workshops covering a range of digital library topics. These were selected by the workshop committee.

The workshops were

- The 1st International Workshop on Digital Platforms and Resources for Access to Literary Heritage (DIPRAL 2022); and
- The 2nd International Workshop on Archives and Linked Data (Linked Archives 2022).

We would like to thank our invited speakers for their contributions to the program: Roberto Di Cosmo (Inria - National Institute for Research in Digital Science and Technology, France) and Georgia Koutrika (Athena Research Center, Greece). Short descriptions of these talks are included in the proceedings.

TPDL 2022 was held under the patronage of the University of Padua, and the Department of Information Engineering.

Finally, we would like to thank our sponsors: ExaMode and the Universidad Politecnica de Madrid (gold level); the Department of Information Engineering of the University of Padua (silver level); and MDPI and Springer (bronze level). The conference was supported by the Coalition for Networked Information.

August 2022

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Democratizing Data Access: What if We Could Just Talk to Our Data?

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Abstract. Data is considered the 21st century's most valuable commodity. Analysts exploring data sets for insight, scientists looking for patterns, and consumers looking for information are just a few examples of user groups that need to access and dig into data. However, existing data access and exploration systems are still following two classical paradigms: they are either form-based interfaces that allow users to easily query the data but with limited query capabilities, or they are low-level programmatic tools that allow the users to write their own queries using programming or query languages such as Python or SQL, but they are intended for CS experts.

On the other hand, enabling users to query data in a database using natural language has been considered the holy grail of the database community. In 1974, E. F. Codd was underlining this need: "If we are to satisfy the needs of casual users of databases, we must break the barriers that presently prevent these users from freely employing their native language" [2]. Several natural language interfaces for databases emerged since then; recent approaches are using deep learning techniques with promising results but also important limitations [1, 3].

While these systems are taking us closer to the holy grail of "talking to data", to bridge the gap between data and humans, we envision a system that allows users to dig into data and find answers by conversing and collaborating with the system, as if it were a human. This system would enable interaction using natural language, would understand the data as well as the user intent, would guide the user, and make suggestions, and help the user find answers to questions over data in a more natural way.

These *intelligent data assistants* are much more complex than any "digital assistant" we know of today, which are based on pre-specified dialogues and can answer simple questions. They require the synergy of several technologies and innovation in all these fronts, including natural language interfaces, data exploration, conversational AI, and data management.

The intention of this talk is to give a flavor of an exciting research territory, discuss where we stand today, opportunities and challenges.

Short Bio

Georgia Koutrika is a Research Director at Athena Research Center in Greece. She has more than 15 years of experience in multiple roles at HP Labs, IBM Almaden, and Stanford. Her work emerges at the intersection of data management, natural language processing and deep learning, and focuses on intelligent and interactive data exploration, conversational data systems, and user-driven data management.

Her work has been incorporated in commercial products, described in 14 granted patents and 26 patent applications in the US and worldwide, and published in more than 100 papers in top-tier conferences and journals. Georgia is an ACM Senior Member and IEEE Senior Member.

She is a member of the VLDB Endowment Board of Trustees, member of the PVLDB Advisory Board, member of the ACM-RAISE Working Group, co-Editor-in-chief for VLDB Journal, PC co-chair for VLDB 2023, co-EiC of Proceedings of VLDB (PVLDB). She has been associate editor in top-tier conferences (such as ACM SIGMOD, VLDB) and journals (VLDB Journal, IEEE TKDE), and she has been in the organizing committee of several conferences including SIGMOD, ICDE, EDBT, among others. She has received a PhD and a diploma in Computer Science from the Department of Informatics and Telecommunications, University of Athens, Greece.

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