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Tommaso Di Noia · In-Young Ko ·  
Markus Schedl · Carmelo Ardito (Eds.)

# Web Engineering

22nd International Conference, ICWE 2022  
Bari, Italy, July 5–8, 2022  
Proceedings

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# Preface

The Web is a digital organism in constant evolution over the years and, in fact, is the largest living laboratory of new technologies and digital solutions. It is a pervasive place where most information flows through many different media on a global scale, and new ways of digital interaction are proposed and tested every day. The International Conference on Web Engineering (ICWE) aims to capture all the scientific aspects that revolve around these activities by bringing together researchers and professionals from various disciplines in the academic and industrial world.

The International Society of Web Engineering (ISWE) has been promoting ICWE since its inception and has contributed greatly to making it the flagship conference for web engineering.

Previous editions of ICWE took place in Biarritz, France (2021) [virtually], Helsinki, Finland (2020) [virtually], Daejeon, South Korea (2019), Cáceres, Spain (2018), Rome, Italy (2017), Lugano, Switzerland (2016), Rotterdam, The Netherlands (2015), Toulouse, France (2014), Aalborg, Denmark (2013), Berlin, Germany (2012), Paphos, Cyprus (2011), Vienna, Austria (2010), San Sebastian, Spain (2009), Yorktown Heights, USA (2008), Como, Italy (2007), Palo Alto, USA (2006), Sydney, Australia (2005), Munich, Germany (2004), Oviedo, Spain (2003), Santa Fe, Argentina (2002), and Cáceres, Spain (2001).

This volume contains the full research papers, short research papers, posters, demonstrations, PhD symposium papers, and tutorials of the 22nd International Conference on Web Engineering (ICWE 2022), held during July 5–8, 2022, in Bari, Italy.

ICWE 2022 focused on seven main research themes, namely, web big data and web data analytics, web application modeling and engineering, web security and privacy, web mining and knowledge extraction, recommender systems based on web technology, social web applications, and web user interfaces.

The ICWE 2022 edition received 81 submissions, out of which the Program Committee selected 23 full research papers (28% acceptance rate among papers submitted to the research track) and five short research papers (35% acceptance rate among papers submitted to the research track). Additionally, the Program Committee accepted six demonstrations and posters, and seven contributions to the PhD symposium. Also accepted were five tutorials: (1) Web Engineering with Human-in-the-Loop; (2) A Guide for Quantum Web Services Deployment; (3) SPARQL Endpoints and Web API (SWApi); (4) About Lightweight Code Generation; and (5) A for Advanced: Becoming An Aspect-Oriented Software Developer In A Day, along with three workshops: the 2nd International Workshop on Big data driven Edge Cloud Services (BEC 2022); the 1st International Workshop on the Semantic Web of EveryThing (SWEET 2022); the 1st International Workshop on Web Applications for Life Sciences (WALS 2022).

The comprehensive program would not have been possible without the support of the many people that contributed to the successful organization of this event. We would like to thank all the chairs for their dedication and hard work, and the keynote speakers for enriching our program. Tommaso Di Noia wishes to warmly thank Carmelo Ardito,

In-Young Ko, and Markus Schedl for having gone beyond their duties as Proceedings and Program Chairs and having helped him in taking care of Maria Sole.

We are grateful to Springer for making possible the publication of this volume. Last but not least, we thank the reviewers for their hard work that allowed us to select the best papers to be presented at ICWE 2022, the authors that sent their work to ICWE 2022, and all the participants that contributed to the success of this conference.

July 2022

Tommaso Di Noia

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