

Preface

In an era where technology is rapidly transforming every aspect of our lives, libraries, librarians and higher education professors are at the forefront of this evolution. The purpose of this edited volume is to showcase the innovative and dynamic roles that libraries, librarians and higher education professors are playing in the age of artificial intelligence, data science, artificial, virtual reality, and beyond. Moreover, equally important was the selection of talented librarians, professors, and information professionals across the globe as contributors to this book. Furthermore, libraries and information centers must keep current with the ever-evolving information technology.

The peer reviewed chapters in this book explore a wide range of topics, from the integration of AI tools in library operations to the legal implications of metadata management. The chapters delve into the importance of information literacy in navigating the digital landscape and the exciting possibilities that virtual reality brings to educational and informational experiences.

The contributors provide insights into how libraries are leveraging data science to enhance their services and how they are becoming hubs for community engagement and digital literacy. This book highlights the critical role that libraries play in fostering knowledge, creativity, and innovation in our society.

The field of Library and Information Science (LIS) is at the forefront of navigating and utilizing the immense info of data that defines our modern world in an era where information is both a commodity and a foundation for creativity. A wide range of chapters that examine the various facets of Library and Information Science are included in this edited edition, illustrating the discipline's dynamic and ever-evolving nature.

The chapters in this book explore a wide range of topics, from the integration of Data Science and AI tools in library operations to the legal implications of metadata management. Moreover, we delve into the importance of information literacy in navigating the digital landscape and the exciting possibilities of exploring the telepresence of robotics. Furthermore, what virtual reality and the metaverse bring to educational and informational experiences is examined.

Every chapter highlights the interdisciplinary character of Library and Information Science and its applicability in a variety of domains by providing distinct insights and real-world examples.

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With their potent techniques for analysis and decision-making, data science and artificial intelligence (AI) tools are completely changing the way we handle and analyze information. While information literacy continues to be a fundamental ability for navigating the intricacies of the digital age, the legal frameworks around AI and metadata are essential for guaranteeing the moral and legal use of information. With

its immersive qualities, virtual reality opens new possibilities for training, education, and information sharing.

This book encompasses Twenty-Eight chapters and provides readers with a comprehensive understanding of these cutting-edge topics, fostering a deeper appreciation for the role of Library and Information Science in shaping the future of information management. We hope that the insights and knowledge shared within these chapters will inspire and equip librarians, professionals, researchers, and students to advance the field and contribute to the ongoing dialogue about the future of library and information science.

Furthermore, we anticipate that this collection will encourage readers to consider the future of library and information science in a society that is becoming more and more reliant on technology, as well as to recognize the diverse contributions made by libraries and librarians.