Book Review: "Artificial Intelligence and Machine Learning – Selected Chapters", 2023, Valentin Kuleto (ed.), Faculty of Contemporary Arts in Belgrade and Information Technology School in Belgrade

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Abstract:

The book "Artificial Intelligence and Machine Learning – Selected Chapters" provides readers with a comprehensive introduction to two key areas of modern science and technology. Through elaborately detailed chapters, the authors delve into the fundamentals, applications, challenges, and future directions of these disciplines, offering readers theoretical and practical knowledge.

Keywords: artificial intelligence, machine learning, natural language processing, neural networks, neuromorphic computing, education, development environments, tools

Introduction

In a rapidly changing world driven by technology, artificial intelligence and machine learning have become central points of innovation. The goal of this book, resulting from collaboration between the Faculty of Contemporary Arts in Belgrade and the Information Technology School, is to provide readers with a fundamental understanding of these areas, along with insights into their practical applications.

Book Structure

The book "Artificial Intelligence and Machine Learning – Selected Chapters" comprises 248 pages. It is divided into eight chapters, each addressing a specific topic or aspect of artificial intelligence and machine learning. Starting from introductory chapters that lay the foundation for understanding, moving through specific areas like natural language processing, neural networks, and computer vision, to practical guides for working with development environments and tools, the book offers a comprehensive overview of this discipline. The book's editor is Prof. Dr Valentin Kuleto and the chapter authors are professors Valentin Kuleto, Jovan Ivković, Marko Ranković, Ana Đokić, Maja Ivović, Đorđe Petrović, Mladen Radaković, and Milena Ilić.

Significance of the Book

In the era of digital transformation, artificial intelligence and machine learning have become not only technological trends but also key drivers of change in nearly all sectors of society. From industry and medicine to education and the arts, AI and ML are redefining how we think, work, and live.

The book "Artificial Intelligence and Machine Learning – Selected Chapters" is not just academic literature; it serves as a bridge between theory and practice, research laboratories and the real world. Its value lies in demystifying complex concepts and making them accessible to a broader audience, enabling more people to become part of this revolution in knowledge and technology.

Moreover, the significance of this book is reflected in its multidisciplinary approach. Through various chapters, the authors address technical, ethical, pedagogical, and practical aspects of artificial intelligence, providing readers with

a holistic view of the field. Such an approach encourages critical thinking and interdisciplinary collaboration, which is essential for the development and application of AI and ML in the real world.

Ultimately, the significance of this book can be summarized in its ability to inform, educate, and inspire. It not only provides readers with essential knowledge and skills but also motivates them to become active participants in shaping the future that artificial intelligence and machine learning bring.

Concluding Remarks

Artificial intelligence and machine learning are not just technologies of the future – they are already deeply rooted in our everyday lives. Through the pages of this book, readers will have the opportunity to gain a deep understanding of these areas and acquire practical skills necessary for their application. Whether you are a student, researcher, professional, or enthusiast, this book will provide you with valuable knowledge and insights into the fascinating world of artificial intelligence.

Reference

1. Valentin K. (2023). Veštačka inteligencija i mašinsko učenje – odabrana poglavlja. Univerzitet Privredna akademija u Novom Sadu, Fakultet savremenih umetnosti u Beogradu, Visoka škola strukovnih studija za informacione tehnologije – ITS, Beograd. ISBN-978-86-87175-17-4.