



Call for Book Chapters: “*Scalable Artificial Intelligence for Healthcare*”

Description:

The book "Scalable Artificial Intelligence for Healthcare" provides a comprehensive exploration of AI scalability in the healthcare domain. Beginning with an introduction to AI scalability and its evolution in various industries, the book delves into fundamental principles, including scalability dimensions, data scalability, model scalability, and infrastructure scalability. It explores architectures for scalable AI, covering topics such as micro services, containerization, and cloud computing.

The chapters also discuss the intersection of big data and AI scalability, emphasizing technologies like data lakes, scalable data pipelines, and federated databases. Machine learning models at scale, training methodologies, and deployment strategies are thoroughly examined, with a focus on continuous integration, monitoring, and integration into the software development life cycle.

In 'Scalable Artificial Intelligence for Healthcare', we embark on a transformative journey into the rapidly evolving world of AI-driven medical solutions. Tailored for intermediate to advanced enthusiasts, this book delves deep into how artificial intelligence is revolutionizing diagnostics, treatment planning, and patient care, emphasizing the scalability of these systems in addressing global health challenges. From foundational AI principles to intricate case studies, readers will gain a comprehensive understanding of how machine-learning models are being deployed in real-world medical scenarios. Learn about the ethical considerations, data privacy issues, and the importance of interdisciplinary collaboration in driving forward AI-powered healthcare solutions. Whether you are a healthcare professional, AI researcher, or tech enthusiast, this book offers a holistic view of the integration and future prospects of AI in the medical realm.

Key words:

AI Evolution, Scalability Concepts, AI Solutions, Scalability Dimensions, Data Management

Model Development, Infrastructure Design, Micro-services, Containerization Strategies, Cloud and Edge Computing, Big Data Technologies, Scalable Data Pipelines, Machine Learning Training

Distributed Processing, Transfer Learning, AI Deployment, Operationalization, Continuous Integration, Performance Optimization, AI Governance

Topics of interest include, but are not limited to (other proposal of chapters in the same theme are acceptable):

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Note for interested contributors

Word Limit and Citation Style

The article should be between **2,000 and 5,000** words per chapter with American Psychological Association 8th ed. ([APA Style](#)). Empirical paper should follow the IMRaD Format (<https://writingcenter.gmu.edu/writing-resources/imrad/writing-an-imrad-report>).

Important Dates

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Honorarium for chapter contributors

Contributors whose chapters are successfully accepted by the editors for the book, would be given an electronic copy of the publication gratis.

Open Access Option

For chapter authors who have access to funding and are keen to consider open access for their chapter contribution, they can send a note to the commissioning editor at Taylor & Francis (CRC Press) for further discussion.

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