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Artificial Intelligence for Oral Health Care: Applications and Future Prospects 1st Edition

"Artificial Intelligence for Oral Health Care: Applications and Future Prospects," authored by Dr. Samuel T. W. Tan and published by Springer in 2023 (ISBN: 978-3-030-46412-7), delves into the transformative potential of artificial intelligence (AI) in the field of oral health. This groundbreaking work presents a comprehensive exploration of cutting-edge AI technologies and their myriad applications in dentistry, from diagnostic tools to treatment planning and patient management. Dr. Tan expertly discusses how machine learning algorithms and data analytics are revolutionizing traditional practices, enhancing accuracy in diagnoses, and personalizing patient care. The book also highlights real-world case studies and innovative research, illustrating the practical implications of AI solutions in enhancing oral health outcomes. Readers will gain insights into the challenges that accompany the adoption of AI in clinical settings, including ethical considerations, data privacy, and the need for interdisciplinary collaboration. Furthermore, the author presents a forward-looking perspective on the future of oral health care, addressing how emerging technologies can be integrated seamlessly into existing systems to improve efficiency and service delivery. This title is an essential resource for dental professionals, researchers, and healthcare policymakers who are eager to understand the implications of AI in oral health and its potential to redefine patient experiences. With its blend of theoretical knowledge and practical application, "Artificial Intelligence for Oral Health Care" serves as a pioneering guide for anyone interested in the intersection of technology and oral health, making it a must-read in an era increasingly defined by digital innovation.