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Nota di contenuto	AI history and basics: From symbolism to neural networks -- AI Methods: Understanding AI models, radiomic analysis and performance metrics in medical imaging -- Ethics of AI in radiography practice -- AI governance and implementation in radiography practice -- AI in projectional radiography -- AI in Computed Tomography -- AI in MRI -- AI in Interventional Imaging and Cardiology -- AI Applications in Ultrasound Imaging -- AI Applications in Nuclear Medicine and Hybrid Imaging -- AI in Radiotherapy -- Person-centred and personalised care for radiography in the AI era -- Industry perspectives on AI -- Radiographer professional bodies contributions -- Preparing for a future with AI in radiography.
Sommario/riassunto	This textbook aims to introduce radiographers to the basic principles, ethics, governance and clinical applications of Artificial Intelligence (AI) across different medical imaging modalities including advantages, challenges and future work needed for AI implementation. It is an essential resource for all clinical practitioners, educators, academics, researchers and students, working in medical imaging and

radiotherapy, providing a coherent, evidence-based, comprehensive guide to current and future practice. Understanding both technical and practical aspects of AI through case studies enables safe and effective patient care, state-of-the-art academic radiography education, enhanced interdisciplinary team communication and collaboration, and appreciation of the accountability involved when employing AI models. This textbook also offers insights into the impact on careers, future roles and staff and patient acceptability. It also stresses person-centredness as paramount for AI integration into clinical radiography in a chapter co-produced with patients. Furthermore, it offers the perspectives, supportive statements and AI resources of different national and international organisations, professional bodies and learned societies. Moreover, a chapter led by industry experts brings a unique view on requirements for AI innovation and commercialisation, aiming to inspire hopeful innovators and entrepreneurs. Finally, the textbook discusses the changing role, responsibilities and competencies of radiographers in a future with AI. It highlights the need to update academic curricula, research priorities and policy to reflect the change of clinical practice and prepare the workforce for a digital future. The editors would like to sincerely thank Dr Charlotte Beardmore, Professor Patrick Brennan, Edward Chan, Samar ElFarra, Dr Kori Stewart, all renowned world leaders in radiography research, education, policy and practice for their kind forewords. This work is written by the global radiography community as an offering for all radiographers.
