1. Record Nr.   UNINA990009224560403321

Autore	Oliverio, Albertina
Titolo	Strategie della scelta : introduzione alla teoria della decisione / Albertina Oliverio
Pubbl/distr/stampa	Roma ; Bari : Laterza, 2010
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Collana	Libri del tempo Laterza ; 403
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Lingua di pubblicazione	Italiano
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2.	Record Nr.	UNINA9910624377403321
	Titolo	Innovations in Nephrology : Breakthrough Technologies in Kidney Disease Care / / edited by Geraldo Bezerra da Silva Junior, Masaomi Nangaku
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
	ISBN	3-031-11570-8
	Edizione	[1st ed. 2022.]
	Descrizione fisica	1 online resource (538 pages)
	Collana	Medicine Series
	Disciplina	616.99461 616.6106
	Soggetti	Nephrology Urology Malalties del ronyó Innovacions tecnològiques Nefrologia Llibres electrònics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes index.
	Nota di contenuto	From Hippocrates to robotics – what the future holds for Nephrology? -- Genetic engineering and its application in nephrology -- Stem cells use in nephrology -- Proteomics and biomarkers for kidney diseases diagnosis -- Microbiome and kidney diseases -- 3D-printing in nephrology -- Innovations in hemodialysis and peritoneal dialysis -- The artificial kidney -- Artificial food and the future of nutrition for kidney health -- Artificial intelligence in nephrology -- Digital nephropathology -- Internet of things and wearables for kidney diseases -- Mobile health in nephrology -- Telenephrology -- Innovations in intensive care monitoring -- Robotics and the avant-garde role of urologic surgery -- Robotics as caregivers in nephrology -- Kidney diseases' registries and big data -- Data protection and legal issues in the context of kidney diseases -- Innovative study designs for the nephrology research -- Patient's engagement in nephrology research -- Social media and interaction between healthcare

professionals and the kidney patients -- Innovations in nephrology education -- Innovations in nephrology services' management.

Sommario/riassunto

Our world is facing unprecedented technological development, which affects all the sectors of society. The 4th industrial revolution has brought numerous advances that are currently integrated in our daily life, including artificial intelligence (A.I.), internet of things (IoT), genetic engineering, 3D-printing and robotics. The health care sector is one of the most impacted by these technologies of the so-called digital era. From the simple advent of medical records to robotic surgery, health care has significantly changed from the XX to XXI century and is constantly changing, incorporating novel technologies. Nephrology is itself an innovative branch of medicine, created as a discipline in the 1960s, with breakthrough inventions, such as the dialysis machine, which made it possible to prolong life of those who suffer from chronic kidney disease; kidney transplant, with point-of-care immunosuppression that favours maintenance of kidney allografts for long years; kidney biopsy, which made it possible to discover the mysteries of glomerulonephritis and nephropathology. Novel technologies, such as A.I., IoT, robotics, stem cells, 3D-printing, mHealth, eHealth and several others are starting to be applied in nephrology, with promising results. It is possible that a great part of these technologies will become routinely available in clinical practice, and the burden of kidney diseases will significantly decrease once prevention, prediction, detection, monitoring and treatment of kidney diseases are more precise, with patients taking part in the process and becoming more and more connected. This book gathers essential information on the technologies that have been applied in nephrology and that can be applied in the future, with real possibilities of improving the care of kidney diseases. At first glance, this work is directed to the entire nephrology community and all the healthcare professionals that deal with kidney diseases. Researchers from different fields,not directly linked to nephrology, may also be interested in the book since many of the topics presented are related to other areas and serve as examples of their uses in medicine, such as artificial intelligence, robotics, and big data. Finally, the content provides an important resource to medical students, discussing technologies that will certainly be integrated in their professional practice.