1. Record Nr. UNINA9910350312903321

Autore	Ho Yvonne
Titolo	Patient-Specific Controller for an Implantable Artificial Pancreas [[electronic resource] /] / by Yvonne Ho
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-2402-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (97 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	616.462025
Soggetti	Biomedical engineering Diabetes Biomedical Engineering and Bioengineering Biomedical Engineering/Biotechnology Control and Systems Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Glucose Metabolism and Diabetes -- Literature Review -- Design of an Implantable Artificial Pancreas -- Model Predictive Controller using Interior Point and Ant Algorithm -- In Vivo Experiment of the Implantable Artificial Pancreas -- Parameter Estimation for Nonlinear Mathematical Model -- Conclusion and Future Work.
Sommario/riassunto	The thesis focuses on the control of blood glucose devices and design of implantable devices, and offers valuable insights on diabetes mellitus and related physiology and treatments. Diabetes mellitus is a widespread chronic disease in the modern world that affects millions of people around the globe. In Singapore, one in ten of the population has diabetes, and the severity of the problem has prompted the country’s prime minister to talk about the disease at the National Day Rally in 2017. Designing an artificial pancreas that can provide effective blood glucose control for individuals with diabetes is one of the most challenging engineering problems. The author reports on research into the development of an implantable artificial pancreas that can regulate blood glucose levels by delivering appropriate dosages of insulin when necessary. By sensing blood glucose and injecting insulin directly into

		the vein, the implantable device aims to remove delays that occur with subcutaneous blood glucose sensing and insulin delivery. Preliminary in-vitro and in-vivo experimental results suggest that the implantable device for blood glucose control could be a clinically viable alternative to pancreas transplant.

2.	Record Nr.	UNINA9910794194903321
	Autore	Jaurretche Colleen
	Titolo	Language as prayer in Finnegans Wake / / Colleen Jaurretche ; forward by Sebastian D.G. Knowles
	Pubbl/distr/stampa	Gainesville, Florida : , : University Press of Florida, c2020, , [2020] ©2020
	ISBN	0-8130-5858-9 0-8130-5747-7
	Descrizione fisica	1 online resource (1 online resource)
	Collana	The Florida James Joyce series
	Disciplina	823.912
	Soggetti	Prayer in literature
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Introduction: "Sacrilegious Languages" -- Book I: Image -- Book II: Magic -- Book III: Dreams -- Book IV: Speech
	Sommario/riassunto	"This innovative analysis shows how James Joyce uses the language of prayer to grapple with intangible things in his dreamlike masterpiece Finnegans Wake. Colleen Jaurretche moves beyond what scholars know about how Joyce wrote this work to suggest exactly why it follows the order it does in its finished form"--