

2024/2025學年第一學期書單

Booklist for 1st Semester of Academic Year 2024/2025

學院 Faculty : 應用科學學院 Faculty of Applied Sciences

課程 Programme : 大數據與物聯網碩士學位課程 Master of Science in Big Data and IoT

年級 Year	學科單元 Learning Module	班別編號 Class Code	教師 Instructor	課本 (* = 參考書) Text Book (* = Reference Book)	版本 Edition	出版社 Publisher	作者 Author	備註 / ISBN Remark / ISBN
1	Machine Learning	COMP6133	Zhuyifan Ye	* Understanding Machine Learning: From Theory to Algorithms.	2014	Cambridge University Press	Shai Shalev-Shwartz, Shai Ben-David	9781107057135
				* Deep Learning	2016	The MIT Press	Ian Goodfellow, Yoshua Bengio, Aaron Courville	9780262035613
				* Reinforcement Learning: An Introduction (Adaptive Computation and Machine Learning series)	2e / 2018	The MIT Press	Richard S. Sutton, Andrew G. Barto	9780262039246
	Security and Authentication	COMP6112	Amang Kim	* Computer Security: Principles and Practice	Global Edition	PEARSON	William Stallings, Lawrie Brown	9781292220635 (eBook)
				* Zero Trust Networks: Building Secure Systems in Untrusted Networks	2e / 2024	O'Reilly Media	Evan Gilman, Doug Barth	9781492096597
	Internet of Things Essentials	COMP6131	Erli Lyu	* Internet of Things: Architectures, Protocols and Standards (eBOOK)	2019	John Wiley & Sons	Simone Cirani, Gianluigi Ferrari, Marco Picone, Luca Veltr	9781119359678
				* Arduino Applied: Comprehensive Projects for Everyday Electronics	2019	Apress	Neil Cameron	9781484239599
				* Real-Time BCI System Design to Control Arduino Based Speed Controllable Robot Using EEG	2019	Springer	Swagata Das, Devashree Tripathy, Jagdish Lal Raheja	9789811330971
				* Getting Started with Python for the Internet of Things	1e	Packt Publishing	Tim Cox, Steven Lawrence Fernandes, Sai Yamanoor, Srihari Yamanoor, Diwakar Vaish	9781838555795
				* Raspberry Pi IoT In C	2e / 2020	IO Press	Harry Fairhead	9781871962635
	* Building the Internet of Things with IPv6 and MIPv6: The Evolving World of M2M Communications	2013	John Wiley & Sons	Daniel Minoli	9781118473474 (eBook)			

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1	Introduction to Big Data	COMP6132	Amy Luo	* Big Data Analytics with Spark	2015	Apress	M. Guller	9781484209653
				* Hadoop: The Definitive Guide: Storage and Analysis at Internet Scale	4e / 2015	O'Reilly	T. White	9781491901632
	Selected Topics I: Convolutional Neural Networks for Video Analysis	COMP6116	Sun Yue	* Deep Learning	2016	The MIT Press	Ian Goodfellow, Yoshua Bengio, Aaron Courville	9780262035613
				* Computer Vision: Algorithms and Applications (Texts in Computer Science)	2e / 2022	Springer	Richard Szeliski	9783030343743