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私の本棚

My favorite books

The Boundaries of Consciousness: Neurobiology and Neuropathology

This book approaches the question of "What is consciousness?" from the perspectives of science, medicine and engineering. This book is especially valuable for those who study the brain as it allows them to learn comprehensively from the fundamentals of cerebral functions through the world of pathology. It consists of as many as 40 topics, each completed in its own. This book is also interesting as read itself because it deals with intriguing topics like near-death experiences. Given technical terms from different fields, one who has read through this volume will become able to understand terminology used when approaching the brain from science, medicine and engineering fields.

EEG Signal Processing

This technical book elaborately explains EEG signal processing. It introduces virtually all techniques from noise rejection through analysis of brain wave signals. This book is a must for students who are assigned to Mitsukura lab's biosignal group.

Pattern Recognition and Machine Learning (Volumes I & II – Japanese version)

The author of this book is Christopher M. Bishop. As far as I know, researchers from a wide range of academic fields widely use this book for study meets and other occasions. I hear that motivated young-generation researchers (including doctoral students) especially value this book in their weekly study meets. If you use this book together with its original in English, you will be able to learn delicate nuances only available with English. From the perspective based on the Baysian (decision-making) theory, it explains the theory and application of machine learning and pattern recognition. I guarantee you will acquire a lot of knowledge from this book.

Momo (Japanese version)

This book appears to be a soft-touch writing for children. However, as an adult reader you will find it a unique and strange book because the message it conveys differs depending on how you interpret it. In fact, it is a book on one's values in life. It poses questions, such as: "What values can make you happy?" and "Are you really happy with the values you are now holding?" The fact is that this book, authored by Michael Ende, is used in the business world as an important textbook by translating "time" into "money." As such, many say that this book contains an in-depth message as a warning against capitalism. Sense of value and philosophy of life may vary according to generation, but I can say this book provides us, adults, with good food for thought.

Senses/Emotions and Robots (in Japanese)

In this book, experts from various fields explain, in an easy-to-understand way, about senses, emotions and sensitivity from their respective specialty viewpoints. As science and engineering-oriented students, we are prone to approach these subjects from our particular perspective. However, this book sheds light on different approaches from wide-ranging fields, such as psychology, art, dentistry and medicine. For the purpose of application to computers and robots, the book also introduces diverse examples of application (of senses, emotions and sensitivity) to system design and design engineering. I recommend this very intriguing book to students who are giving serious thought to taking up this research field.

Mind and Brain

The mind is an information processing system in which various elementary functions, such as emotion, sociality, memory and thinking, interact with each other. This book explains the mind in an easy-to-understand way and elaborately. Unlike other books of this kind, however, it introduces theories from wide-ranging academic domains as well as the author's own knowledge, which was exciting enough to arouse my intellectual curiosity as I read it. The author is, of course, Mr. Yuichi Anzai, a leading specialist in cognitive science and the former president of Keio University.