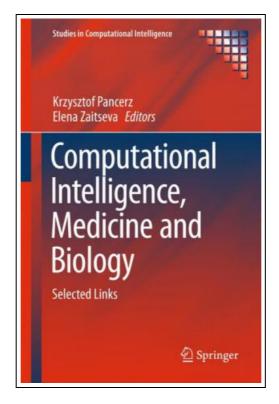
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Reviews

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(Valentin Thompson)

COMPUTATIONAL INTELLIGENCE, MEDICINE AND BIOLOGY: SELECTED LINKS



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Springer-Verlag Gmbh Apr 2015, 2015. Buch. Condition: Neu. Neuware - This book contains an interesting and state-of the art collection of chapters presenting several examples of attempts to developing modern tools utilizing computational intelligence in different real life problems encountered by humans. Reasoning, prediction, modeling, optimization, decision making, etc. need modern, soft and intelligent algorithms, methods and methodologies to solve, in the efficient ways, problems appearing in human activity. The contents of the book is divided into two parts. Part I, consisting of four chapters, is devoted to selected links of computational intelligence, medicine, health care and biomechanics. Several problems are considered: estimation of healthcare system reliability, classification of ultrasound thyroid images, application of fuzzy logic to measure weight status and central fatness, and deriving kinematics directly from video records. Part II, also consisting of four chapters, is devoted to selected links of computational intelligence and biology. The common denominator of three chapters is Physarum polycephalum, one-cell organisms able to build complex networks for solving different computational tasks. One chapter focuses on a novel device, the memristor, that has possible uses both in the creation of hardware neural nets for artificial intelligence and as the connection between a hardware neural net and a living neuronal cell network in the treatment and monitoring of neurological disease. This book is intended for a wide audience of readers who are interested in various aspects of computational intelligence. 169 pp. Englisch.



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