

【著書】

1. 石川眞澄, 石谷久, 社会システム工学, 2章 (pp.9-32), 3章 (pp.33-65), 5章 (pp.103-189), 朝倉書店, 1992.3.
2. 石川眞澄, 他, ニューロコンピューティング, 2章 (pp.23-46), 8章 (pp.127-136), 朝倉書店, 1992.7.
3. 石川眞澄, ニューラルネットワークの基礎, 甘利俊一, 向殿政男編, ニューロとファジイ, 1章, pp.17-52, 培風館, 1994.5.
4. 石川眞澄, 階層型ニューラルネットの数理, 計測自動制御学会編, ファジイ・ニューロ・A I ハンドブック, 3章, pp.79-84, オーム社, 1994.5.
5. 石川眞澄, ニューラルネットワーク, p.88, バックプロパゲーションアルゴリズム, p.108, ソフトコンピューティング用語集, 朝倉書店, 1996.
6. 石川眞澄, ニューラルネットワーク、「マルチメディア産業応用技術大系」, (第3編利用技術, 第3章コンピュータ技術, 第4節ニューラルネットワーク), pp.378-381, フジ・テクノシステム, 1997.8.
7. Masumi Ishikawa, Structural learning and rule discovery from data, in S. Amari and N. Kasabov Eds., Brain-Like Computing and Intelligent Information Systems, Chapter 16, pp.395-415, Springer, 1998.
8. 石川眞澄, 層上モデル, 誤差逆伝搬法, 慣性項, 電子情報通信学会編, 電子情報通信ハンドブック, pp.77-79, 1998.10.31.
9. Masumi Ishikawa, Structural learning and rule discovery, in I. Cloete and J. Zurada Eds., Knowledge-Based Neurocomputing, Chapter 5, pp.153-206, The MIT Press, 2000.
10. 石川眞澄, 構造学習, 甘利俊一, 外山敬介編, 脳科学大辞典, pp.712-715, 朝倉書店, 2000.4.
11. 石川眞澄, 学習アルゴリズム(p.123), 構造学習(p.269), コネクショニストモデル(p.285), コネクショニズム(p.285), 並列分散処理(p.756), P D P (p.693), 活性伝播(p.138), 認知科学辞典, 共立出版, 2002.8.1.
12. Hong Zhang, Masumi Ishikawa, A solution to combinatorial optimization with time-varying parameters by a hybrid genetic algorithm, Brain-Inspired IT I , International Congress Series, 1269, pp.149-152, 2004.9.
13. Keiji Kamei, Masumi Ishikawa, Determination of the optimal values of parameters in reinforcement learning for mobile robot navigation by a genetic algorithm, Brain-Inspired IT I , International Congress Series, 1269, pp.193-196, 2004.9.
14. Keiji Kamei, Masumi Ishikawa, Reduction of computational cost in optimization of parameter values in reinforcement learning by a genetic

algorithm, Kazuo Ishii, Kiyohisa Natsume and Akitoshi Hanazawa Editors, Brain-Inspired IT II -- Decision and Behavioral Choice Organized by Natural and Artificial Brains, International Congress Series 1291, pp.185-188, Elsevier, 2006.

- 1 5 . Hong Zhang, Masumi Ishikawa, A hybrid real-coded genetic algorithm with forgetting and its applications, Kazuo Ishii, Kiyohisa Natsume and Akitoshi Hanazawa Editors, Brain-Inspired IT II -- Decision and Behavioral Choice Organized by Natural and Artificial Brains, International Congress Series 1291, pp.189-192, Elsevier, 2006.
- 1 6 . Frederik Linaker, Masumi Ishikawa, Robot localization using vision, Trends in Neural Computation, pp.483-512, Springer, 2007.10
- 1 7 . T. Furukawa, K. Tokunaga, S. Yasui, H. Tamukoh, K. Ishii, M. Ishikawa, K. Horio, K. Natsume, Modular network self-organizing map: Can it be an artificial cortex?, Brain-Inspired IT III, Vol.1301, pp.43-47, July 2007.
- 1 8 . M. Ishikawa, K. Ishii, T. Yamakawa, M. Nagamatsu, H. Nakagawa, H. Zhang and T. Furukawa, Brain-inspired emergence of behaviors in mobile robots, Brain-Inspired IT III, Volume 1301, pp.48-51, 2007.7.
- 1 9 . M. A. Muslim, M. Ishikawa and T. Furukawa, Training expert modules for a mobile robot using mnSOM, Brain-Inspired IT III, Volume 1301, pp.172-175, 2007.7.
- 2 0 . K. Kamei and M. Ishikawa, Prediction of the optimal parameter values in reinforcement learning as a function of the environment, Brain-Inspired IT III, Volume 1301, pp. 210-213, 2007.7.
- 2 1 . Hong Zhang, Masumi Ishikawa, Bagging using hybrid real-coded genetic algorithm with pruning and its applications to data classification, Brain-Inspired IT III, Volume 1301, pp. 184-187, 2007.7.
- 2 2 . Hong Zhang, Masumi Ishikawa, Evolutionary particle swarm optimization: A metaoptimization method with GA for estimating optimal PSO models, Oscar Castillo, Li Xu, and Sio-long Ao Editors, Trends in Intelligent Systems and Computer Engineering, Chapter 5, pp.75-90, Springer, 2008.
- 2 3 . Masumi Ishikawa, Masahiro Nagamatsu, Takao Hagiwara, Naoyuki Yamamoto, Fumiko Kiriake, Takehiko Nishida, Takeshi Yamakawa, Kazuo Ishii, Hideki Nakagawa and Hong Zhang, Brain-inspired emergence of behaviors based on values and curiosity in mobile robots, in Akitoshi Hanazawa, Tsutomu Miki, and Keiichi Horio (Eds.) Brain-Inspired Information Technology, Vol.266, pp.33-38, 2009.11.23.

- 2 4 . Takao Hagiwara and Masumi Ishikawa, Emergence of behaviors by reinforcement learning based on the desire for existence, in Akitoshi Hanazawa, Tsutomu Miki, and Keiichi Horio (Eds.) Brain-Inspired Information Technology, Vol.266, pp.39-44, 2009.11.23.
- 2 5 . Fumiko Kiriake and Masumi Ishikawa, Classification and novelty detection of omni-view Images taken from a mobile robot, in Akitoshi Hanazawa, Tsutomu Miki, and Keiichi Horio (Eds.) Brain-Inspired Information Technology, Vol.266, pp.45-49, 2009.11.23.
- 2 6 . Naoyuki Yamamoto and Masumi Ishikawa, Curiosity and boredom based on prediction error as novel internal rewards, in Akitoshi Hanazawa, Tsutomu Miki, and Keiichi Horio (Eds.) Brain-Inspired Information Technology, Vol.266, pp.51-55, 2009.11.23.
- 2 7 . Keiji Kamei and Masumi Ishikawa, Skill transfer of a mobile robot obtained by reinforcement learning to a different mobile robot, in Akitoshi Hanazawa, Tsutomu Miki, and Keiichi Horio (Eds.) Brain-Inspired Information Technology, Vol.266, pp.57-62, 2009.11.23.
- 2 8 . Hong Zhang and Masumi Ishikawa, Effect of fitness functions on the performance of evolutionary particle swarm optimization, in Akitoshi Hanazawa, Tsutomu Miki, and Keiichi Horio (Eds.) Brain-Inspired Information Technology, Vol.266, pp.63-68, 2009.11.23.