



Handbook of Research on Design, Control, and Modeling of Swarm Robotics (Advances in Computational Intelligence and Robotics)

By Ying Tan

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Studies on robotics applications have grown substantially in recent years, with swarm robotics being a relatively new area of research. Inspired by studies in swarm intelligence and robotics, swarm robotics facilitates interactions between robots as well as their interactions with the environment.

The **Handbook of Research on Design, Control, and Modeling of Swarm Robotics** is a collection of the most important research achievements in swarm robotics thus far, covering the growing areas of design, control, and modeling of swarm robotics. This handbook serves as an essential resource for researchers, engineers, graduates, and senior undergraduates with interests in swarm robotics and its applications.

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Editorial Review

About the Author

Ying Tan is a full professor and PhD advisor at the School of Electronics Engineering and Computer Science of Peking University, and director of Computational Intelligence Laboratory at Peking University (PKU). He received his BEng, MS, and PhD from Southeast Univ., in 1985, 1988, and 1997, respectively. He is the inventor of Fireworks Algorithm (FWA). He serves as the Editor-in-Chief of *International Journal of Computational Intelligence and Pattern Recognition (IJCIPR)*, the Associate Editor of IEEE Transaction on Cybernetics (Cyb), the Associate Editor of IEEE Transaction on Neural Networks and Learning Systems (NNLS), *International Journal of Artificial Intelligence (IJAI)*, *International Journal of Swarm Intelligence Research (IJSIR)*, etc. He also served as an Editor of Springer's Lecture Notes on Computer Science (LNCS) for more than 15 volumes, and Guest Editors of several referred Journals, including Information Science, Softcomputing, Neurocomputing, Natural Computing, *International Journal of Artificial Intelligence*, IJSIR, B&B, Computer Journal, IEEE/ACM Transactions on Computational Biology and Bioinformatics. He is a member of Emergent Technologies Technical Committee (ETTC), Computational Intelligence Society of IEEE since 2010. He is a senior member of IEEE and ACM and a senior member of the CIE. He is the founder and chair of the ICSI International Conference series. He was the general chair of joint general chair of 1st&2nd BRICS CCI, program committee co-chair of IEEE WCCI 2014, publicity chair of IEEE SSCI 2016, etc. Prof. Ying Tan's main interests include computational intelligence, swarm intelligence, swarm robotics, data mining, and intelligent information processing for information security. He has published more than two-hundred papers in refereed journals and conferences in these areas, and authored/co-authored ten books and fifteen book chapters, and received three invention patents.

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