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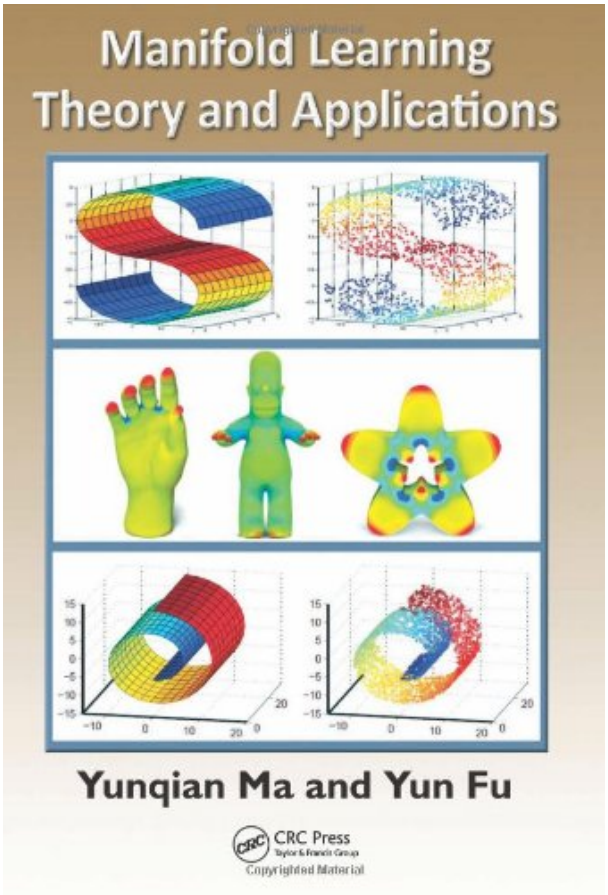

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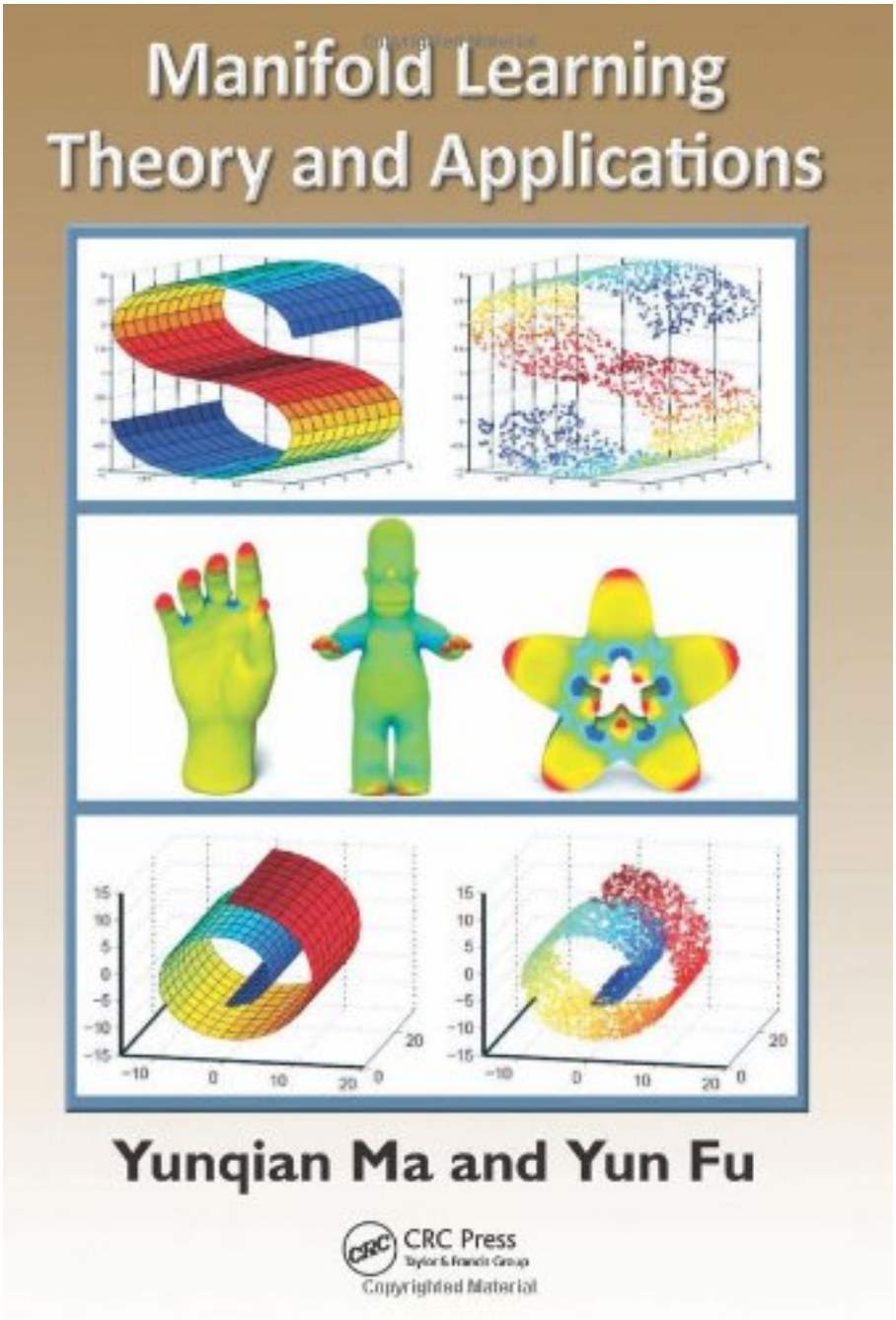

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About the Editors:

Yunqian Ma received his PhD in electrical engineering from the University of Minnesota at twin cities in 2003. He then joined Honeywell International Inc., where he is currently senior principal research scientist in the advanced technology lab at Honeywell Aerospace. He holds 12 U.S. patents and 38 patent applications. He has authored 50 publications, including 3 books. His research interest includes inertial navigation, integrated navigation, surveillance, signal and image processing, pattern recognition and computer vision, machine learning and neural networks. His research has been supported by internal funds and external contracts, such as AFRL, DARPA, HSARPA, and FAA. Dr. Ma received the International Neural Network Society (INNS) Young Investigator Award for outstanding contributions in the application of neural networks in 2006. He is currently associate editor of IEEE Transactions on Neural Networks, on the editorial board of the pattern recognition letters journal, and has served on the program committee of several international conferences. He also served on the panel of the National Science Foundation in the division of information and intelligent system and is a senior member of IEEE. Dr. Ma is included in Marquis Who is Who Engineering and Science.

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Trained to extract actionable information from large volumes of high-dimensional data, engineers and scientists often have trouble isolating meaningful low-dimensional structures hidden in their high-dimensional observations. Manifold learning, a groundbreaking technique designed to tackle these issues of dimensionality reduction, finds widespread application in machine learning, neural networks, pattern recognition, image processing, and computer vision.

Filling a void in the literature, Manifold Learning Theory and Applications incorporates state-of-the-art techniques in manifold learning with a solid theoretical and practical treatment of the subject. Comprehensive in its coverage, this pioneering work explores this novel modality from algorithm creation to successful implementation?offering examples of applications in medical, biometrics, multimedia, and computer vision. Emphasizing implementation, it highlights the various permutations of manifold learning in industry including manifold optimization, large scale manifold learning, semidefinite programming for embedding, manifold models for signal acquisition, compression and processing, and multi scale manifold.

Beginning with an introduction to manifold learning theories and applications, the book includes discussions on the relevance to nonlinear dimensionality reduction, clustering, graph-based subspace learning, spectral learning and embedding, extensions, and multi-manifold modeling. It synergizes cross-domain knowledge for interdisciplinary instructions, offers a rich set of specialized topics contributed by expert professionals and researchers from a variety of fields. Finally, the book discusses specific algorithms and methodologies using case studies to apply manifold learning for real-world problems.

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