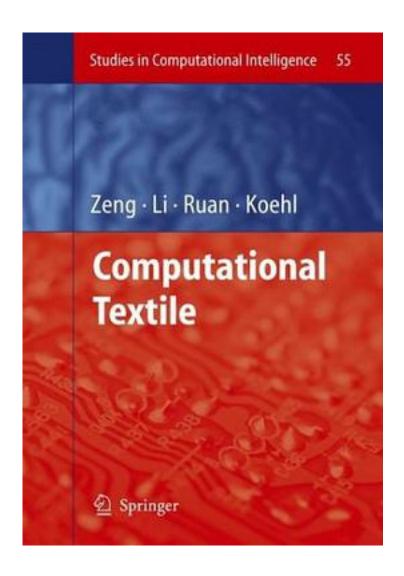# Computational Textile

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Since 1950a (TM)s, computational techniques have been widely applied in textile

industry and garment industry for process and materialsa (TM) structure modeling, simulation and control, optimization of product quality, product design, textile market forecasting, and production management. The related computational techniques include classical methods such as statistics, differential equations, classical signal and image processing and statistical pattern recognition, and intelligent techniques such as soft computing and data mining. This edited book collects a number of representative applications of computational techniques in textile and garment industry. These applications cover the following issues: Textile quality assessment by image analysis, Modeling and simulation of textile structures, Computer aided garment design, Computerized textile management and textile Supply Chain, Textile quality subjective and objective evaluation; Computational thermal bioengineering of textiles and clothing; Computational biomechanical engineering of textiles and clothing.

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