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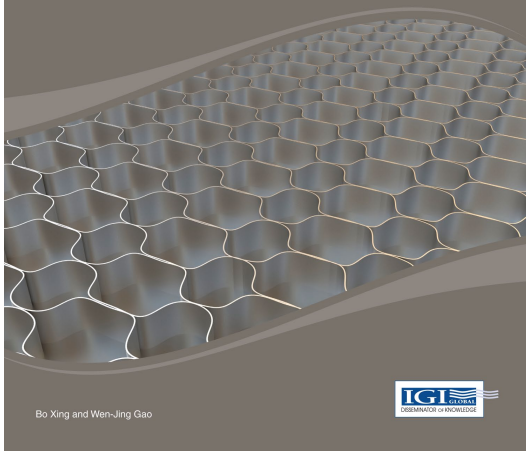
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## Computational Intelligence in Remanufacturing

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### Computational Intelligence in Remanufacturing

Part of the Advances in Environmental Engineering and Green Technologies Series



Part of the Advances in Environmental Engineering and Green Technologies Book Series

Bo Xing (University of Pretoria, South Africa) and  
Wen-Jing Gao (Meiyuan Mould Design and Manufacturing Co., Ltd, China)

In attempts to reduce greenhouse gas emissions, many alternatives to manufacturing have been recommended from a number of international organizations. Although challenges will arise, remanufacturing has the ability to transform ecological and business value.

**Computational Intelligence in Remanufacturing** introduces various computational intelligence techniques that are applied to remanufacturing-related issues, results, and lessons from specific applications while highlighting future development and research. This book is an essential reference for students, researchers, and practitioners in mechanical, industrial, and electrical engineering.

#### Topics Covered:

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- Information and Communication Technology
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- Product Embedded Intelligence Device
- Product Recovery Management
- Remanufacturing

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**Market:** This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

**Bo Xing**, is a Senior Lecturer under the division of Asset Integrity Management Centre at the Department of Mechanical and Aeronautic Engineering, Faculty of Engineering, Built Environment and Information Technology, University of Pretoria, South Africa. Dr. Xing earned his DIng degree (Doctorate in Engineering with a focus on remanufacturing) in the early 2013 from the University of Johannesburg, South Africa. He also obtained his BSc and MSc degree in Mechanical Engineering from the Tianjin University of Science and Technology, P.R. China, and the University of KwaZulu-Natal, South Africa, respectively. He was a scientific researcher at the Council for Scientific and Industrial Research (CSIR), South Africa. He has published more than 50 research papers in books, international journals, and international conference proceedings. His current research interests lie in applying various nature-inspired computational intelligence methodologies towards miniature robot design and analysis, advanced mechatronics system, reconfigurable manufacturing system, e-maintenance, production planning and scheduling, routing and network design in remanufacturing and closed-loop supply chain.



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