

CUTTING-EDGE RESEARCH AND APPLICATION ISSUES ON
COMPUTATIONAL INTELLIGENCE IN THE MOBILE ENVIRONMENT

The combination of mobile computing and computational intelligence, Mobile intelligence focuses on learning patterns and knowledge from data generated by mobile users and mobile technology. As a very new area of research, mobile intelligence has created a wide range of opportunities for researchers, engineers, and developers to create new applications for both end users and businesses. Mobile Intelligence covers a comprehensive state-of-the-art in various applications of computational intelligence to mobile paradigm including mobile data intelligence, mobile mining, mobile intelligence security, mobile agent, location-based mobile information services, mobile context-aware and applications, intelligent networks, and mobile multimedia. Readers will not only learn different areas of mobile computing and its issues but also various intelligent approaches that contribute in addressing these issues, as well as discover other potential elements in mobile paradigm.

- Explains how to deliver benefits to a wide range of applications, including database query processing, multimedia, commerce systems, email systems, search engines, and web browsers
- Covers efficient and effective mobile data retrieval by various advanced techniques and protocols
- Describes intelligent approaches to resolve location-based query processing in the mobile environment
- Discusses learning interesting patterns and knowledge out from data generated by mobile users
- Investigates the deployment of mobile agents to support context-aware mobile applications
- Presents intelligent solutions to the security issues in mobile networks
- Evaluates advanced optimization methods for mobile multimedia retrieval
- Reveals the latest techniques in solving various issues in wireless sensor network (WSN)

Mobile Intelligence is geared for upper-level undergraduate and graduate students in computer science and data mining courses, as well as telecommunication engineers, mobile communication and networking engineers, computer scientists, computer engineers, mobile database specialists, and data mining specialists.

DR. LAURENCE T. YANG is Professor, Department of Computer Science, St. Francis Xavier University. He is on the executive committee of IEEE Technical Committee of Scalable Computing and the IEEE Technical Committee of Self-Organization and Cybernetics for Information.

Agustinus Borgy Waluyo is a researcher at the Centre for Distributed Systems and Software Engineering, Mobility Lab, Monash University, Australia.

Jianhua Ma is a professor at the Faculty of Computer and Information Sciences of Hosei University.

Ling Tan is a Research Fellow at Assessment and Reporting division of the Australian Council for Educational Research.

Bala Srinivasan is a professor of Information Technology and Head of Clayton School of Information Technology in the Faculty of Information Technology, Monash University, Australia.

Subscribe to our free Communication Technology eNewsletter at wiley.com/enewsletters

Visit telecommunicationbooks.com



YANG
WALUYO
MA
TAN
SRINIVASAN

MOBILE INTELLIGENCE
RESEARCH IN



RESEARCH IN
MOBILE
INTELLIGENCE

LAURENCE T. YANG • AGUSTINUS BORGY WALUYO
JIANHUA MA • LING TAN • BALA SRINIVASAN

