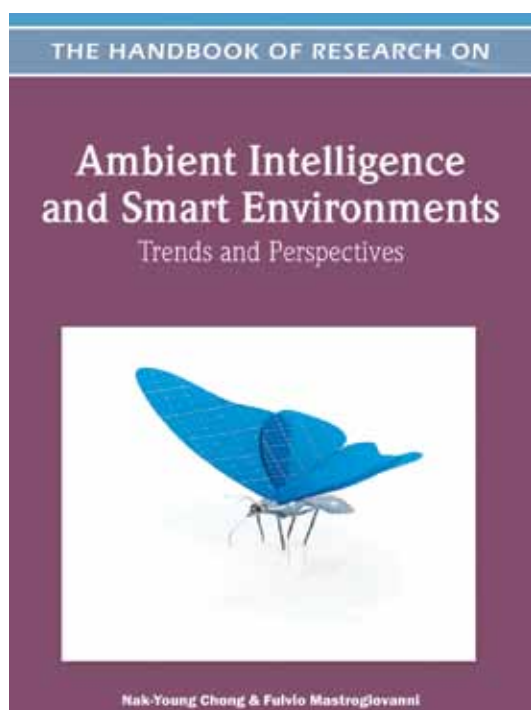


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## Handbook of Research on Ambient Intelligence and Smart Environments: Trends and Perspectives



Nak-Young Chong (Japan Advanced Institute of Science and Technology, Japan) and Fulvio Mastrogiovanni (University of Genova, Italy)

Ambient Intelligence (Aml) is a multidisciplinary approach aimed at enriching physical environments with a network of distributed devices, such as sensors, actuators, and computational resources, in order to support humans in achieving their everyday activities.

**Handbook of Research on Ambient Intelligence and Smart Environments: Trends and Perspectives** covers the cutting-edge aspects of AMI applications, specifically those involving the effective design, realization, and implementation of a comprehensive Aml application. This pertinent publication targets researchers and practitioners in Ambient Intelligence, as well as those in ubiquitous and pervasive computing, artificial intelligence, sensor networks, knowledge representation, automated reasoning and learning, system and software engineering, and man-machine interfaces.

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- Architectural Aspects and Infrastructure
- Context Awareness
- Human Aspects
- Knowledge Representation
- Reasoning
- Sensible Interaction
- Sensing
- Smart Environments

ISBN: 9781616928575; © 2011; 770 pp.

Print: US \$265.00 | Perpetual: US \$395.00 | Print + Perpetual: US \$530.00

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**Nak-Young Chong** received his B.S., M.S., and Ph.D. from Hanyang University, Seoul, Korea in 1987, 1989, and 1994, respectively. From 1994-98, he was a senior researcher at Daewoo Heavy Industries. After Daewoo, he spent 1 year at KIST. From 1998-2007, he was on the research staff of AIST. In 2003, he joined the JAIST faculty as Associate Professor of Information Science. Dr. Chong serves as Associate Editor of the *IEEE Transactions on Robotics*, and *International Journal of Assistive Robotics and Systems*. He will serve as Program Chair/Co-Chair for the ICAM 2010, IEEE-ROMAN 2011, and IEEE-CASE 2012. He served as Co-Chair of the IEEE RAS Technical Committee on Networked Robots in 2004-06, and Fujitsu Scientific Systems WGs in 2004-08. He was a visiting scholar at AIST in 1995-96, Northwestern University in 2001 and Georgia Tech in 2008-09. He is a director of KROS, and a member of IEEE, RSJ, and SICE.



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