

Wah Ho CHAN

#### Artificial Intelligence Integrated Construction Simulation Method

From Basics to Methods with Real Case Applications





# Artificial Intelligence Integrated Construction Simulation Method

By Chan, Wah Ho

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | From Basics to Methods with Real Case Applications | The interactive, complicated system environment of aconstruction site renders the conventional sitelayout planning and scheduling inadequatein coping with the materials handlingin construction. Although simulation provides apromising solution to construction planning, thecomplexity and time requirement involved inconstructing a simulation model along with thedifficulty in decoding simulation output data keeppracticing engineers from employing simulation toolsin practice. This book introduces you an innovativeconstruction operations simulation called SimplifiedDiscrete-Event Simulation Approach (SDESA), whichprovide you an accurate simulation tool with minimumlearning and modeling effort. Furthermore, theArtificial Neural Networks-based sensitivity analysisis integrated to it to perform instant data miningand knowledge discovery from the constructionsimulations result data. By implementing thesimplified, intelligent construction simulationmethod as developed, practicing engineers would becapable and confident to draw up the bestconstruction plan that would lead to the enhancement of cost-effectiveness and productivity in the field. | Format: Paperback | Language/Sprache: english | 104 gr | 64 pp.



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