



**NAVAL  
POSTGRADUATE  
SCHOOL**

**MONTEREY, CALIFORNIA**

**THESIS**

**DYNAMIC ESCAPE ROUTES FOR NAVAL SHIPS**

by

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**Approved for public release; distribution is unlimited.**

# Dynamic Escape Routes For Naval Ships

**Liyong Dong**



## **Dynamic Escape Routes For Naval Ships:**

**Dynamic Escape Routes for Naval Ships**, 2005 This thesis addresses the problem of optimal evacuation of a naval ship We propose the use of a dynamic escape route system which employs a signaling system to adapt the emergency egress process to the instigating contingency The evacuation process is represented by a nonlinear network optimization model with an objective function that integrates two conflicting goals the average evacuation time and the ship s integrity The nonlinearity in the model results from a speed being a nonlinear function of concurrent flow on passageways and b delays caused by opening closures We also account for counter flows and passageways used by repair parties The problem is heuristically solved through an iterative process that updates speeds and delays as it proceeds and dynamically adds valid inequalities to avoid counter flows A bound on the solution quality is obtained by solving the problem under optimistic conditions Compared to static routes in a modern frigate model solutions show that dynamic routes can improve the average evacuation time by 20% reduce the time of the last evacuee by 25% and improve ship integrity We also demonstrate that even greater improvements are achievable with minor design changes in the ship

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Junzo Watada, Toyohide Watanabe, Gloria Phillips-Wren, Robert J. Howlett, Lakhmi C Jain, 2012-05-20 The Intelligent Decision Technologies IDT International Conference encourages an interchange of research on intelligent systems and intelligent technologies that enhance or improve decision making The focus of IDT is interdisciplinary and includes research on all aspects of intelligent decision technologies from fundamental development to real applications IDT has the potential to expand their support of decision making in such areas as finance accounting marketing healthcare medical and diagnostic systems military decisions production and operation networks traffic management crisis response human machine interfaces financial and stock market monitoring and prediction and robotics Intelligent decision systems implement advances in intelligent agents fuzzy logic multi agent systems artificial neural networks and genetic algorithms among others Emerging areas of active research include virtual decision environments social networking 3D human machine interfaces cognitive interfaces collaborative systems intelligent web mining e commerce e learning e business bioinformatics evolvable systems virtual humans and designer drugs This volume contains papers from the Fourth KES International Symposium on Intelligent Decision Technologies KES IDT 12 hosted by researchers in Nagoya University and other institutions in Japan This book contains chapters based on papers selected from a large number of submissions for consideration for the conference from the international community The volume represents the current leading thought in intelligent decision technologies

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