SESSION I – SAFETY & ENVIRONMENTAL IMPACT

SAFENV-SHIP: A GLOBAL DESIGN APPROACH TO IMPROVE SAFETY AND ENVIRONMENTAL IMPACT ON PASSENGER VESSELS
G. SCARPA 1.1

ACTIVE PENDULATION CONTROLLED DAVITS
D. CLELLAND, M. BOLE, B.S. LEE, D. VASSALOS 1.2

CELLULAR MODELS APPLIED TO THE EVACUATION OF SHIP PASSENGERS
F. PÉREZ, A. LÓPEZ, J. C. DIAZ 1.3

FIRE ENGINEERING ANALYSIS IN PASSENGER SHIP DESIGN - A STEP FORWARD
A. MACCARI, M. BOGNOLO, M. DOGLIANI, A. VERGINE 1.4

RISK ANALYSIS BASED CLASSIFICATION
B. VUČINIĆ 1.5

EXPERIMENTAL EVALUATION OF THE PARAMETERS FOR THE WEATHER CRITERION
G. BERTAGLIA, A. SERRA 1.6

CASE STUDY ON THE PROBABILISTIC DAMAGE ASSESSMENT OF SHIPS
P. GUALENI, C. PODENZANA BONVINO 1.7

EVALUATION OF CARBON DIOXIDE EMISSIONS ON INTERMODAL CONTAINER TRANSPORTATION IN PORTS
H. SAKAI, Y. WATANABE, T. OIKAWA 1.8

MARINE POLLUTION RISK: METHODS AND TOOLS FOR SEA AREAS CLASSIFICATION
S. CAPIZZI, S. VACANTE 1.9
SESSION II – MARITIME TRANSPORT & ECONOMICS

PARETO OPTIMAL ROUTING OF SHIPS
S. HARRIES, J. HEIMANN, J. HINNENTHAL 2.1

SEA-CHAINS – LOGISTICS CHAIN DEVELOPMENT IN A MARITIME VIEW
E.A. BJORN, L. HAKON, R. TORE, T. RUNAR 2.2

THE INDUSTRIAL-ECONOMIC STRUCTURE OF THE PORT AND MARITIME SECTOR:
AN ATTEMPT TO QUANTIFICATION
H. MEERSMAN, E. VAN DE VOORDE, T. VANELSLANDER 2.3

TRAPIST AND D2D: PRESENTING AND MANAGING INFORMATION FLOWS IN PORTS
AND INTERMODAL TRANSPORT CHAINS
D. FISCHER, R. POERSCH 2.4

SICILIAN HARBOURS FOR THE DEVELOPMENT OF INTERMODALITY AND
LOGISTICS
S. AMOROSO, P. ADAMO, M. CATALANO, G. LUZZIO 2.5

A MULTI-PURPOSE, FLEXIBLE MODEL OF WHARF PRODUCTIVITY FOR CONTAINER
PORTS
G.P. RITOSSA, A. MIGLIOR, F. CADONI, C. DIAZ 2.6
SESSION III - HULL MODELLING & HYDRODYNAMIC OPTIMISATION

ADVANCES IN OPTIMAL DESIGN TECHNOLOGIES
J.J. MAISONNEUVE 3.1

A PRACTICAL APPROACH TO CONSTRAINED HYDRODYNAMIC OPTIMIZATION OF SHIPS
M. HOEKSTRA, H. RAVEN 3.2

PARAMETRIC HULL DESIGN – THE FRIENDSHIP-MODELER
C. ABT, L. BIRK, S. HARRIES 3.3

AN HIERARCHICAL APPROACH TO HULL FORM DESIGN
M. BOLE, B.S. LEE 3.4

SYSTEMATIC LENGTH VARIATION AND DEVICES POSITIONING STUDY FOR A FRIGATE SHIP ACCOUNTING PROPULSION AND OPERABILITY CHARACTERISTICS
D. PERI, R. DATTOLA 3.5

OPTIMAL DESIGN OF SHIP HULL FORMS: THE FANTASTIC PROJECT
J.J. MAISONNEUVE, U. VIVIANI 3.6

THE FANTASTIC RORO: CFD OPTIMISATION OF THE FOREBODY AND ITS EXPERIMENTAL VERIFICATION

HYDRODYNAMIC DESIGN OF THE AFTBODY SHAPE OF A RORO VESSEL
F. VALDENAZZI, S. HARRIES, C. PITTALUGA, C. ABT, G. AVELLINO 3.8

TRIBON PACE - A SPEEDY APPROACH TO HULLFORM SURFACE GENERATION
I. APPLEGARTH, T. SMITH 3.9
SESSION IV – SHORT SEA SHIPPING & MANOEUVRING

IZAR ANSWERS TO THE EUROPEAN SHORT SEA SHIPPING
J.M. GONZALEZ ALVAREZ-CAMPANA, J.R. CHACON ALONSO 4.1

A MODAL SPLIT MODEL FOR THE FREIGHT INTERNAL TRADE IN ITALY
G. DALL’AGATA, A. RIGON, M. MONICA 4.2

A MODAL CHOICE MODEL FOR SIMULATION TRAFFIC ON A SHORT SEA SHIPPING ROUTE
M. CATALANI 4.3

INTEGRATION OF SEA LAND TECHNOLOGIES FOR AN EFFICIENT INTERMODAL DOOR TO DOOR TRANSPORT. AN EUROPEAN INITIATIVE FOR THE DEVELOPMENT OF MARITIME TRANSPORT AND INTERMODALITY.
C. CAMISETTI 4.4

MANOEUVRING ASSESSMENT IN CONCEPT SHIP DESIGN
G. LOEF, S. TOXOPEUS 4.5

APPLICATION OF IDENTIFICATION TECHNIQUES FOR THE IMPROVEMENT OF MANOEUVRABILITY PREDICTIONS
R. DEPASCALE, L. SEBASTIANI, M. VIVIANI, C. PODENZANA BONVINO, R. DATTOLA, M. SOAVE 4.6

SHIP PROPULSION NUMERICAL SIMULATOR: VALIDATION OF THE MANOEUVRABILITY MODULE
G. BENVENUTO, S. BRIZZOLARA, G. CARRERA 4.7

DESIGN AND OPTIMISATION OF PROPULSION SYSTEMS BY DYNAMIC NUMERICAL SIMULATION
M. ALTOSOLE, M. FIGARI, S. D'ARCO 4.8
SESSION V – HYDRODYNAMICS

NUMERICAL SIMULATION OF POTENTIAL FLOW AROUND SHIP HULL USING NURBS AND REGULARIZED BOUNDARY INTEGRAL EQUATION
J.M. CHUANG, J. SHENG, S. ANDO 5.1

AIR-FLOW DESIGN IN CARGO HOLDS USING CFD
S. HENKEL 5.2

CALCULATION OF THE WAKE FIELD IN MODEL AND FULL-SCALE
L. LUBKE 5.3

DEVELOPMENT OF NAVIER-STOKES METHOD FOR NONLINEAR FREE SURFACE FLOW SIMULATIONS
H. CHEN, H. HEFAZI, L. GEA, T. MURAYAMA 5.4

A NUMERICAL MULTIBLOCK ALGORITHM FOR NAVAL CONFIGURATIONS WITH ONE EQUATION TURBULENCE MODEL
F. CAPIZZANO, S. MIRANDA, C. PENSA, A. TRAVERSO 5.5

NUMERICAL AND EXPERIMENTAL EVALUATION OF NEW PROPELLER SECTIONS WITH ENLARGED CAVITATION BUCKET
U. VIVIANI, P. BECCHI, C. PITTALUGA, A. TRAVERSO, M. FERRANDO, M. ELEFANTE, M. SOAVE 5.6

MODEL / FULL-SCALE CORRELATION INVESTIGATIONS FOR A NEW MARINE PROPELLER TYPE
J. FRIESCH, P. ANDERSEN, J.J. KAPPEL 5.7

PROPELLER DESIGN FOR A FERRY WITH TWO SEASONAL SAILING PROFILE
G. LAVINI, A. COAN 5.8

AN INTEGRATED APPROACH FOR HIGH SPEED PROPELLERS DESIGN AND MANUFACTURING
M. ELEFANTE, M. SOAVE, A. CALCAGNO, F. CONTI, A. OLIVASTRI 5.9

POD PROPELLERS WITH 5 AND 6 BLADES
G. BERTAGLIA, A. SERRA, G. LAVINI 5.10