Monday, 12 April 2010

Chair: Winfried Abels, Volker Bertram

09:00h  Rope Kotiranta
Extended Usage of a Modern Product Model in Finite Element Analysis

09:30h  Tommi Kurki
Utilization of Integrated Design and Mesh Generation in Ship Design Process

09:55h  Ralf Tschulllik, Hannes Prommer, Pentscho Pentschew, Patrick Kaeding
A Concept Of Topological Optimisation For Bow Structures

10:20h  J. Marcio Vasconcellos
Ship Structural Optimization Under Uncertainty

10:45h  coffee break

Chair: Richard Vogelsong

11:10h  Anthony Daniels, Morgan Parker, David Singer
Effects of Uncertainty in Fuzzy Utility Values on General Arrangements Optimization

11:35h  Bart Van Oers, Douwe Stapersma, Hans Hopman
A 3D Packing Approach for Early Stage Configuration Design of Ships

12:00h  Karel Wagner, Alain Wassink, Bart Van Oers, Hans Hopman
Modeling Complex Vessels for Use in a 3D Packing Approach: An Application to Deepwater Drilling Vessel Design

12:25h  Frank Borasch
A Digital Planning Tool for Outfitting: “DigiMAus”

12:50h  lunch

Chair: Veronica Alonso

14:30h  Darren Larkins
Practical Applications of Design for Production

15:00h  Christian Cabos, Uwe Langbecker, Wiegand Grafe
Hull Maintenance based on a 3D Model

15:25h  David Thomson
Requirements of a Common Data Model for Total Ship Lifecycle Data Management

15:50h  Thomas Koch
Validation and Quality Control of Design and Production Information – Applying Rule Based Data Mining and Business Intelligence Concepts to Engineering

16:15h  coffee break

Chair: Rolf Oetter

16:40h  Martin Wanner, Ralf Ahonenberg, Ulrich Kothe, Jan Sender, Reiner Czmiertzki
Development of a Methodology for Calculating Production Times based on Parameters

17:05h  Hermann Lödding, Axel Friedewald, Lars Wagner
Rule-based Resource Allocation – An Approach to Integrate Different Levels of Planning Detail in Production Simulation

17:30h  Dirk Steinhauser
GeneSim – Development of a Generic Data Model for Production Simulation in Shipbuilding

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Tuesday, 13 April 2010

Chair: Marcus Bole

09:00h  Kunihiro Hamada, Yoshifumi Takanobu, Kesavadev Varikkattu
Development of Ship Design Support System in Consideration of Uncertainty in Product Information

09:30h  Thomas DeNucci, Hans Hopman
Optimization-Based Approach to Rationale Capturing in Ship Design

09:55h  Igor Mixing, Bruce Wintersteen
Multi Level Hierarchical System Approach in Computerized Ship Design

10:20h  David Andrews, Tim McDonald, Richard Pawling
Combining the Design Building Block and Library Based Approaches to Improve Exploration during Initial Design

10:45h  coffee break

Chair: Daniele Peri

11:10h  Marco Bibuli, Massimo Caccia, et al.
Robotic Tools to Assist Marine Inspection: The MINOAS Approach

11:35h  Monique Chyba, Michael Aldonian, Danio Cazzaro, Luca Invernizzi
Trajectory Design for Autonomous Underwater Vehicles for Basin Exploration

12:00h  Andreas Birk, NN
Towards Cooperative Cognitive Control for Autonomous Underwater Vehicles

12:25h  Andrea Cai, Andrea Munafô
AVN Networks for Adaptive Area Coverage with Reliable Acoustic Communication Links

12:50h  lunch

Chair: Andrea Cai

14:30h  Revhane Rosmati, Mohammed Reza M. Boroujerdi
Data Mining to Enhance the Throughput of Container Ports

15:00h  Ed R. Galea, Robert Brown, L. Filippidis, Steven Deere
Collection of Evacuation Data for Large Passenger Vessels at Sea

15:25h  Isabelle Toulgoat, Pierre Siegel, Yves Lacroix, Julien Botto
Operator Decision Modeling in a Submarine

15:50h  Valery Myrkin, Vyacheslav Lomov, Sergey Kurnosov, Manucher Dorri
Training Complex for Training Submarine Motion Control Skills on the Basis of Virtual Dynamic Systems

16:15h  coffee break

Chair: Stefan Harries

16:40h  Ahmad Ayob, Tapabrata Ray, Warren F. Smith
A Framework for Scenario-Based Hydrodynamic Design Optimization of Hard Chine Planing Craft

17:05h  Markus Druckenbrod, Jochen Hundemer, Moustafa Abdel-Maksoud, Max Steden
Optimisation of Single and Multi-Component Propulsors

17:30h  Stefan Harries, Florian Vesting
Aerodynamic Optimization of Superstructures and Components

17:55h  Matteo Dieg, Daniele Peri
Two-Stage Stochastic Programming Formulation for Ship Design Optimization under Uncertainty
Wednesday, 14 April 2010

Chair: Thilo Dückert

09:00h  Océane Balland, Siri Solem, Arnulf Hagen, Stein Ove Erikstad
A Decision Support Framework for the Concurrent Selection of Multiple Air Emission Controls

09:30h  Henrique Gaspar, Stein Ove Erikstad, Eivind Larsen, Audun Grimstad
Efficient Design of Advanced Machinery Systems for Complex Operational Profiles

09:55h  Heikki Hansen, Malte Freund
Assistance Tools for Operational Fuel Efficiency

10:20h  Wei Shi, Hugo Grimmelius
Comparison of Modeling Techniques for Simulation of Fuel Consumption of Dredgers

10:45h  coffee break

Chair: Tommi Kurki

11:10h  Volker Bertram, Patrick Couser
Aspects of Selecting the Appropriate CAD and CFD Software

11:35h  Verónica Alonso, Carlos Gonzalez
The Challenge in Hull Structure Basic Design: From Traditional 2D Drawings to 3d Early Product Model

12:00h  Phillip Ironside
Wireless Technology with Ship Machinery

12:25h  Rolf Oetter
The Role of IT in Revitalizing Brazil’s Shipbuilding Industry – A Case Study

12:50h  lunch
Chair: Bart van Oers

14:30h  Robert Hekkenberg
“The Virtual fleet” - Use of Extended Conceptual Design Data for Trend Analysis in Inland Ship Characteristics

15:00h  Tomasz Abramowski
Combining Artificial Neural Networks and Simulated Annealing Algorithm for Increasing Ship Transport Efficiency

15:25h  Jean-David Caprace, Frederic Bair, Philippe Rigo
Multi-Criterion Scantling Optimization of Passenger Ships

15:50h  Benedict Boesche
Improvement of Interoperability between Yards and Equipment Suppliers

16:15h  coffee break
Chair: Pat Couser

16:40h  Marcus Bole
Interactive Hull Form Transformations using Curve Network Deformation

17:05h  George Bruce
Reducing Management Software Costs

17:30h  Nick Danese
Ship CAD Systems – Past, Present and Possible Future

19:00h  GL Conference Dinner
Restaurant: Taverna del Lupo

Traditional Umbrian Appetizer
Bruschetta and Brustengo with ham
Pasta with asparagus and porcini mushroom
Veal with truffle and caciotta cheese sauce
Sautéed eggplant with parsley and garlic
Crepe with vanilla ice cream and warm wild fruits
Coffee

Mineral Water & ¼ Rubesco Lungarotti & ¼ Torre di Giano Lungarotti

Backup Paper:
Tadeusz Szelangiewicz, Tomasz Abramowski, Katarzyna Żelazny
Developing of a Computer System aiding the Determination of Mean Long-Term Service Speed

* not in proceedings, only on website

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