Sunday, 10 May 2009
Chair: Yvonne Masakowski, Volker Bertram
09:00h Welcome address
09:02h Jörg Kalwa, Robert Engel
Overview about the GREX-Project: Coordination and Control of Cooperating Heterogeneous Unmanned Systems in Uncertain Environments
09:25h Matthias Schneider, Thomas Glotzbach, Thomas Gütler, Peter Otto
Towards Cooperative Behaviour between Multiple Unmanned Marine Vehicles (MUMVs): Team Handling for the First Multi Vehicle Primitives
09:45h Antonio Zangrilli, Andrea Picini, Alessio Gugliotta
Exploitation Model for Multiple Unmanned Marine Vehicles Technologies
10:05h Thomas Glotzbach, Andreas Voigt, Torsten Pfitzenreuter, Marco Jacobi, T. Rauschenbach
CViewVR: A High-performance Visualization Tool for Team-oriented Missions of Unmanned Marine Vehicles
10:25h Andreas Birk, Gianluca Antonelli, Andrea Pascoal, Andrea Caffar (Andrea Caffar)
Cognitive Cooperative Control for Autonomous Underwater Vehicles

10:50h coffee break
Chair: Laszlo Vajta, Volker Bertram
11:15h Giuseppe Casalino, Alessio Turetta, Enrico Simetti
Real Time Path Planning and Obstacle Avoidance for Security Related USVs Operating in Harbour Fields
11:35h Marco Bibuli, Massimo Caccia, Riccardo Bono, Gabriele Bruzzone, Giorgio Bruzzone, Edoardo Spagnuoli
The ALAINS-USV, Aluminim Autonomous Navigator for Intelligent Sampling
11:55h Ryan N. Smith, Monique Chyba, Song K. Choi, Dieter Kohn, Jonas Bränhult, Bärbel Bitterling
Guidance and Control for Underactuated Autonomous Underwater Vehicles
12:20h Yvonne Masakowski
The Impact of Unmanned Systems on Decision Making
12:45h lunch
Chair: Hans-Günther Mütze
14:00h George Bruce
Management Information Systems in Ship Repair
14:25h Philippe Renard
Asset Integrity Management System for Ships and Offshore Units Hull Maintenance
14:50h Inge-Lise Nielsen, Jonna Ecklon, Ivar Jurgic
Weld Planning and Reporting in Rule-Based Ship Design
15:15h Douglas T. Rigterink, David J. Singer
An Assessment of Productivity of a Stiffened Hull Plate in Early Design Stage
15:40h coffee break
Chair: Rafael de Gongora
16:10h Kees Meijer, Jeroen Puyun, John Klooster
Erection Scheduling Support Tool
16:35h Jean-David Caprace, Cassiano M. Souza, N. Losseau, Francisco A. Fernandez, P. Rigo
Space Allocation Optimization Applied to Lower Hulls’ Production of Semi-Submersible Platforms
17:00h Emmanuel Querrec, Espen G. Nilsen
Simulation-Based Assessment of Flexibility and Robustness for North Sea Platform Supply Vessel Operations
17:25h Jenny Coenen, Robert Heckenberg
Model and Evaluation Technique for Engineering-to-Order Processes in Shipbuilding
GL COMPIT Award given to Thomas Glotzbach and Matthias Schneider

Monday, 11 May 2009
Chair: Robert Heckenberg
09:00h Claus Abt, Stefan Harries, Stefan Wunderlich, Benjamin Zeitz
Flexible Tool Integration for Simulation Driven Design using Generic XML and COM Interfaces
09:25h Geert Tepper, Theodoor De Jonge
NUPAS-CADMATIC’s Vision on CAD/CAM System Development in Today’s Shipbuilding Environment
10:15h Darko Frank, Alan Klanac, Mikko Mattila
Elements of Design Tool Integration for Concurrent Group Design of Ships: CATIA-NAPA Integration
10:40h coffee break
Chair: Bert Reisler
11:05h Rafael de Gongora
A Comprehensive Environment for Efficient HVAC Design
11:30h Rafael Doig, Michael Bohn, Jens Stammer, Paris Hernandez, Stefan Griesch, Dieter Kohn, Jonas Bränhult, Bärbel Bitterling
Integrating Structural Design and Assessment
11:55h Akihiro Takezawa, Yuri Kaneno, Mitsuru Kitamura, Kunihiro Hamada, Yasuaki Ohtsuki
A Design Optimization Method for Bridge Wing of Bulker Improving Anti-vibration Characteristics
12:20h Eleanor K. Nick Kirtley
Fuzzy Optimal General Arrangements in Naval Surface Ship Design
12:45h lunch
Chair: George Bruce
14:00h David Thomson, Martin Gwyther
AVEVA NET - AVEVA's Open PLM Platform for Shipbuilding
14:24h David A Sanders, Gareth Lambert, Lynn Pevy, Giles E Tewkesbury
Improving Robotic Welding in the Shipbuilding Industry through the Recognition of Shipbuilding Parts by Pre-locating Corners in Images
14:50h Matthias Kromer, Karsten Loer, Nicolai Rehbein, Manfred Scharrer
Validation of Artificial Neural Networks for the Prediction of Damage Sizes for Container Vessel Collisions
15:15h David E. Hess, Kurt Junghans, Joan Lewis, Jonghyuk Lee, Edward S. Ammeen, W. E. Faller
Neural Network Progress at NSWCD

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Tuesday, 12 May 2009

Chair: Volker Höppner

09:00h Eirik Fernandez Cuesta, Audun Grimstad, Arnulf Hagen
Integrating a Maritime Transport Chain Perspective into Ship Design

09:25h Malte Freund, Gerd-Michael Würsig, Stephan Kabelac
Simulation Tool to Evaluate Fuel and Energy Consumption

09:50h Henrique M. Gaspar, Stein Ove Erikstad
Extending Energy Efficiency Design Index to Handle Non-Transport Vessels

10:15h Karsten Hochkirch, Volker Bertram
Slow Steaming Bulbous Bow Optimization for a Large Containership

10:40h coffee break
Chair: Axel Friedewald

11:05h Hugo Grimmelius, Nuur Nuur, Martin van Hees
Knowledge-based Assembly of Dynamic Simulation Models

11:30h Wilfried Abels, Lars Greitsch
Software Development and Reengineering outside of the IT Industry using a Procedural Workflow Framework

11:55h Thomas DeNucci, Hans Hopman, Bart van Oers
Capturing Trade-off Rationale during Design Selection

12:20h Jean-David Caprace, Philippe Rigo
Multi-Criteria Decision Support for Cost Assessment Techniques in Shipbuilding Industry

12:45h lunch
Chair: Stein Ove Erikstad

14:00h Kunihiro Hamada, Mitsuru Kitamura, Akihiro Takezawa, Yoshifumi Takanobu
A Study on Design Support System for Ship Principal Particulars in Consideration of the Accuracies of the Analyses

14:25h Edwin van Hassel
A Quaestor Design Model for Small River Convoy Barges

14:50h Robert G. Hekkenberg
Determination of Key Design Parameters in Conceptual Inland Ship Design

15:15h Andi Asmara, Jeroen Kaarsemaker, Ubald Nienhuis
Approximate Orthogonal Simplification of 3D Model using Gaussian PSO

15:40h coffee break

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