

Projects

Center for Industrial Asset management



2013

PHD: Operational infrastructure and work management systems for offshore wind energy assets

**BY Ole-Erik Endrerud – IN
PROGRESS (2011-2015)**

DESCRIPTION:

Present a maintenance and logistics model of a large-scale wind turbine park in order to investigate how different maintenance strategies and logistics support will affect availability and life-cycle costs. This model will be a decision tool when designing and optimizing maintenance strategies, operational infrastructure and work management systems.

CONTACTS:

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PHD: Systemic Management of Modern Sociotechnical Systems: Integrating Human, Organizational and Technical Factors in Complex and Dyna- mic Operating Environment

**BY HAFTAY H. ABRAHA – IN
PROGRESS (2011-2014)**

DESCRIPTION:

The overall objective of the thesis is to provide knowledge, methods and tools for major accident risk assessment and management for modern sociotechnical systems (e.g. offshore and onshore installations) based on system perspective (system thinking) to improve understanding of the influence of human, organizational and technical factors in complex and dynamic operating environment.

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PHD: Creation of “Just in time” maintenance services for the Norwegian Offshore Industry

**BY Nii Nortey Lokko – IN
PROGRESS (2012-2015)**

DESCRIPTION:

To create a framework for provision maintenance services based on improved quantitative and qualitative analysis techniques, condition monitoring and statistical simulations

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PHD: Wind Turbine Installation

BY Arun Sarkar– IN

PROGRESS (2011-2013)

DESCRIPTION:

Installation methods for offshore wind turbines

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stad

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SPONSORS:

Norcowe partners

PHD: Development of method/apparatus for close visual inspection of subsea leaking structures in underwater poor visibility condition

BY Jasper Agbakwuru – IN

PROGRESS (2011-2014)

DESCRIPTION:

Find leaking points in pipelines in muddy waters.

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Norske Shell AS

PHD: Breaking waves on wind turbine foundations

BY Sung-Jin Choi – IN

PROGRESS (2011-2013)

DESCRIPTION:

Calculate breaking wave forces on wind turbine foundations placed on shoals

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SPONSORS:

Norwegian Science Foundation

PHD: Network Performance Impact in Complex Manufac- turing Networks

BY Jakob E. Beer – IN

PROGRESS (2011-2014)

DESCRIPTION:

The target of this dissertation is to identify parameters of performance effects from inter-organizational relationships in complex manufacturing networks and to outline risks emerging from the increasing interconnectedness inherent to such networks. Strategic responses to such risks will be identified, discussed, and evaluated. This thesis will thus create a more complete picture of causes and effects on firm performance in manufacturing networks and provide a framework based on which strategic decisions can be made with respect to important determinants of performance.

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UiS, EU

PHD: Modeling of biogas fuelled technologies: internal combustion engines and fuel cells

**BY Omid Razbani – IN
PROGRESS (2010-2013)**

DESCRIPTION:

The work focuses on modeling of biogas fuelled technologies, internal combustion engines and fuel cells.

CONTACTS:

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UiS, IRIS

PHD: Low emission gas turbine technology for hydrogen rich syngas in integrated gasification combined cycle (H₂-IGCC)

**BY Mohammad Mansouri Majourmed – IN
PROGRESS (2010-2013)**

DESCRIPTION:

The work focuses on low emission gas turbine technology for hydrogen rich syngas in integrated gasification combined cycle (H₂-IGCC)

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UiS, IRIS

PHD: Theoretical and experimental investigation of biogas fuelled CHP technology with emphasis on gas turbine using advanced and intelligent modeling and monitoring tools

**BY Homam Nikpey Somehsaraei – IN
PROGRESS (2010-2013)**

DESCRIPTION:

The work focuses on theoretical and experimental investigation of biogas fuelled CHP technology with emphasis on gas turbine using advanced and intelligent modeling and monitoring tools

CONTACTS:

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SPONSORS:

UiS, IRIS

PHD: Internasjonalisering av nye produkter i SME

**BY Murshid M. Ali – IN
PROGRESS (2010-2013)**

DESCRIPTION:

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PHD: Predicting Production Rates of Pouring Ready Mixed Concrete by using Tower Cranes in Egypt

**BY Emad el Mahgraby – IN
PROGRESS (2010-2013)**

DESCRIPTION:

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AAST, Egypt

PHD: Predictions of the impact of cross listing on company performance, local stock returns, risk and corporate governance case of Egyptian Global Depositary Receipt GDRs

**BY Mohamed elAshry Mahran – IN
PROGRESS (2010-2013)**

DESCRIPTION:

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SPONSORS:

AAST, Egypt

PHD: Decision analysis methods in integrated opera- tions

BY Thorvald Gundersen – IN

PROGRESS (2013-2016)

DESCRIPTION:

Develop decision analysis methodologies for implementing integrated operations in a holistic perspective with improved decision quality, maximizing value capture and operational performance in the oil and gas industry.

CONTACTS:

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PHD: Sertifisering og akkreditering for kvahtet og sikkerhet i Skyehus

**BY Dag Tomas Sagen Johannesen – IN
PROGRESS (2012-2015)**

DESCRIPTION:

Develop decision analysis methodologies for implementing integrated operations in a holistic perspective with improved decision quality, maximizing value capture and operational performance in the oil and gas industry.

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UiS

PHD: Tripartite collaboration in the Norwegian Petroleum Industry

BY Anita Moen – IN

PROGRESS (2008-2015)

DESCRIPTION:

Develop decision analysis methodologies for implementing integrated operations in a holistic perspective with improved decision quality, maximizing value capture and operational performance in the oil and gas industry.

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Norwegian Council

PHD: Risk management in an inter-organizational project cooperation

**BY Lene Jørgensen – IN
PROGRESS (2009-2014)**

DESCRIPTION:

Develop decision analysis methodologies for implementing integrated operations in a holistic perspective with improved decision quality, maximizing value capture and operational performance in the oil and gas industry.

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Norwegian Council