



DR.ING.-STUDIET
Sensurskjema

NTNU Fakultet for
informasjonsteknologi,
matematikk og elektroteknikk

Saksnr.: 2005/14838-9

Dato: 10 MAR 2006

Arkivkode: 422

Beh. av: SB

Kopi:

1. Studentens navn/namn: Darijus Strašunskas

2. **Bedømmelseskomitéens medlemmer (navn, tittel, arbeidssted/namn, tittel, arbeidsstad):**

1. opponent: Professor Pericles Loucopoulos, University of Manchester, PO Box 88, Manchester, M601QD United Kingdom.

2. opponent: Professor Benkt Wangler, Högskolan i Skövde, Högskolevägen, Box 408, 541 28 Skövde, Sverige.

Administrator: Professor Maria Letizia Jaccheri, Institutt for datateknikk og informasjonsvitenskap, NTNU, 7491 Trondheim.

Hovedveileder (observatør): Professor Arne Sølvberg, Institutt for datateknikk og informasjonsvitenskap, NTNU, 7491 Trondheim.

Medveiledere (observatører):

3. **Vitenskapelig avhandling/Vitenskapelig avhandling.**

Norsk tittel:

Engelsk tittel: "Domain Model-Centric Distributed Development"

Godkjent/Godkjend Ikke godkjent/Ikkje godkjend

Vedtaket er enstemmig/Vedtaket er samrøystes Vedtaket er ikke enstemmig/Vedtaket er ikkje samrøystes

4. **Offentlig prøveforelesning/Offentleg prøveforelesning.**

Norsk tittel:

Engelsk tittel: "Open Source – State of the Art and Challenges Ahead"

Dato:

Utfall: Godkjent/Godkjend Ikke godkjent/Ikkje godkjend..

5. **Vurdering av prøveforelesningen/Vurdering av prøveforelesninga:**

The lecture was presented in a very good manner. The topic was well researched and the presentation was structured and delivered in a competent style that engaged the audience. In summary the presentation was in conformance with the requirements as stipulated in the regulations.

6. Redegjørelse om innholdet og vurdering av kvalitet og originalitet i avhandlingen/Utgreining om innholdet og vurdering av kvalitet og originalitet i avhandlinga:

The thesis addresses an important problem, i.e. that of distributed and collaborative software development and how to coordinate and manage development work in such a context. The thesis suggests means for supporting management and change impact prediction in connection with the various artifacts produced while developing an information system. The research problem is clearly stated and motivated. The research approach is one of suggesting and developing a solution which is then shown to work in two (lab) experiments (proof of concept). The results are further evaluated by means of a questionnaire investigating the perceived efficacy and usefulness of the tool, and hence whether the users would be inclined to use the tool, had it been commercially available.

The thesis accounts for state of the art in distributed and cooperative IS development, its methodology, tools and repositories, and then digs into how model and product fragments, their versions and configurations can be managed. It suggests a framework and method based on semantic relatedness to be arrived at by means of associating product fragments to a common domain model. The work finishes by the above mentioned evaluation. Six papers published during the years 2002 to 2005 constitute a peer reviewed presentation of the most important results.

The thesis demonstrates a good research framework within which the different components of the work have been carried out diligently and innovatively.

The contribution of the thesis is in the linking of domain ontology to emerging development artifacts by different development teams in a distributed environment. The thesis also makes a contribution to the methodological aspects for managing the process. A prototype tool is developed that implements the framework.

7. Det utenlandske medlem sammenligner her avhandlingens nivå og omfang med tilsvarende grad i eget land (ikke en generell sammenligning)/Det utanlandske medlemet samanliknar her avhandlinga sitt nivå og omfang med tilsvarende grad i eige land (Ikkje ei generell samanlikning):

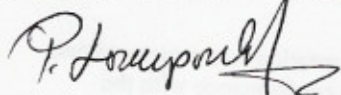
The foreign members of the committee compare the thesis level with the respective grade in own country. The thesis compares well with similar theses in Sweden and in the UK that deal with topics in Information Systems engineering.

8. Publisering av arbeidet (internasjonale tidsskrift, konferanser m.m.):

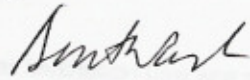
He has published six peer reviewed papers during the years 2002 to 2005 in International conferences and workshops of International status.

9. Signaturer/Signaturar
Sted/stad, dato

Trondheim 9.03.06



PERICLES LOUCOPOULOS



BENKT WANGLER



MARIA LETIZIA JACCHERI