REGISTRATION

Venue:
INFORMATICS AND MATHEMATICAL MODELLING
Building 308, DK-2800 Kgs. Lyngby

Latest news, abstracts, practical information etc.
www.visionday.dk

Questions and further information
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Participation fee per day 1.200 DKK
Participation fee per day for members[1] 1.000 DKK
Participation fee per day for university employees 600 DKK
Participation fee per day for students[2] 150 DKK
Dinner at Hotel Fortunen 1 June 19.00 250 DKK

The participation fee covers the scientific program, exhibition, compendium, refreshments, and lunch.
All participants are welcome to exhibit equipment or posters.

[1] For members of DAU, DIRA, DMTS, DSAGM, DSTM, IGDA and Øresund IT Academy.
[2] Students should bring a poster for the exhibition.

INFORMATICS AND MATHEMATICAL MODELLING

HOSTS

MEDICAL
INDUSTRIAL
GRAPHICAL

VISIONDAY
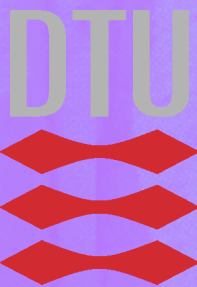
Wednesday 1, Thursday 2 and Friday 3 June 2005

THE HIGH TECHNOLOGICAL NETWORK IN BIOPHOTONICS

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invite companies, organizations, and institutions interested in image analysis and vision systems to three days of information and demonstrations at DTU in Building 308.

PROGRAM

MEDICAL VISIONDAY

WEDNESDAY 1 JUNE 2005

08.00 Registration, exhibition, demonstrations, coffee, and rolls

SESSION I

09.00 Welcome and introduction
Professor Knut Conradsen, IMM, DTU

09.10 Keynote address. NeatVision - Visual Programming for Computer Aided Diagnostic Applications
Paul Whelan, Dublin City University

10.00 On Automating and Standardising Corpus Callosum Analysis in Brain MRI
Karl Skoglund, IMM, DTU

10.15 Poster teasers

10.30 Coffee, exhibition, demonstrations

SESSION II

11.00 Estimation of Complex Motions in Video Signals
Dr.-Ing. Erhardt Barth, University of Lübeck, Germany

11.20 Automated Histomorphometric Analysis of Joint Damage in a Mouse Model of Osteoarthritis
Thomas Jensen, Visiopharm, Denmark

11.40 Systemic Vascular Diseased Assessed by Noninvasive Observation of the Eye
Michael Larsen, Herlev Hospital

12.00 Lunch, exhibition, demonstrations

SESSION III SPONSORED BY THE BIOPHOTONICS NETWORK

13.30 Improved OCT Imaging with a New Averaging Method
Birgit Sander, Herlev Hospital

13.50 Active Contour Model for Segmenting OCT B-Scans
Jakob Thomadsen, Risø National Laboratory

14.10 High-Resolution, Real-Time Imaging Using a Fiber-Based Optical Coherence Tomography System
Peter Falk, COM, DTU

14.30 Biomedical Sensors Based on Optical Photonic Crystal Fibres
Lars Rindorf, COM, DTU

14.50 Medical Image Computing and Computer-Assisted Intervention - MICCAI 2006, Copenhagen
Rasmus Larsen, IMM, DTU

15.00 Coffee, exhibition, demonstrations

SESSION IV

15.30 The Virtual Slaughterhouse – Registration and Segmentation of 3D CT Scans of Pig Bodies
Mads Fogtmann Hansen, IMM, DTU

15.50 Porcine Obesity – Fat Segmentation in Multimodality 3D MR Abdominal MR Scans
Rasmus Engholm, IMM, DTU

16.10 Poster prize, discussion and closing remarks
Rasmus Larsen, IMM, DTU

16.20 Exhibition, demonstrations, refreshments

17.00 The Medical Visionday ends

19.00 Vision dinner at Hotel Fortunen

Student poster prize sponsored by **SECTRA**

INDUSTRIAL VISIONDAY

THURSDAY 2 JUNE 2005

08.00 Registration, exhibition, demonstrations, coffee, and rolls

SESSION I SPONSORED BY THE BIOPHOTONICS NETWORK

09.00 Welcome and introduction
Knut Conradsen, Professor, IMM, DTU

09.10 Real-time 3D Using Time-of Flight Camera Technology
Thierry Oggier, Centre Suisse d'Electronique et de Microtechnique

09.45 3D Laser Triangulation: Technology and Applications
Rune Fisker, Ph.D., 3shape Aps

10.15 Poster teasers

10.30 Coffee, exhibition, demonstrations

SESSION II

11.00 Examples of Using Machine Vision in Cars and Digital Photography
Erhardt Barth, Ph.D., University of Lübeck

11.30 Flexible Production with Robots Using Simulation and Visual Servoing
Mads Paulin, Assistant professor, University of Southern Denmark

12.00 Lunch, exhibition, demonstrations

SESSION III

13.30 Quality Grading of Painted Slates Using Texture Analysis
Paul Whelan, Professor, Dublin City University

14.10 Cognimatics - Cognitive Vision in Surveillance and Mobile Phones
Kalle Åström, Professor, Lund University

14.40 Demonstration of a Fully Automated Assembly line
Kasper Sortkjær, Project manager, ProInvent A/S

15.00 Coffee, exhibition, demonstrations

SESSION IV

15.20 Applications of High-Speed Video
Finn Mengel, CEO, Mengel Engineering

15.35 Vision Applications in the Meat Industry
Hans Henrik Thodberg, Ph.D., Visiana ApS

16.00 Poster prize, discussion and closing remarks
Jens Michael Carstensen, Associate professor, IMM, DTU

16.15 Exhibition, demonstrations, refreshments

17.00 The Industrial Visionday ends

Student poster prize sponsored by **Videometer**

GRAPHICAL VISIONDAY

FRIDAY 3 JUNE 2005

08.00 Registration, exhibition, demonstrations, coffee, and rolls

SESSION I SPONSORED BY THE BIOPHOTONICS NETWORK

09.00 Welcome and introduction
Professor Knut Conradsen, IMM, DTU

09.10 Keynote address.
Precomputed Lighting: Theory and Practice
Peter-Pike Sloan, Microsoft

10.10 Coffee, exhibition, demonstrations

SESSION II

10.20 The Architecture of the Kapow Systems Engine
Jacob Marner, Deadline Games

10.40 Near Real-time Multibody Dynamics with Stacking
Kenny Erleben, DIKU

11.15 Coffee, exhibition, demonstrations

SESSION III

11.30 Presentation of student posters

12.00 Lunch, exhibition, demonstrations

SESSION IV SPONSORED BY THE BIOPHOTONICS NETWORK

13.00 Using RenderMan for Ray Tracing and Global Illumination in Complex Scenes
Per Henrik Christensen, Pixar

13.50 Coffee, exhibition, demonstrations

SESSION V

14.10 Integrating DirectX Shaders in 3ds Max - A Developer's Perspective
Neil Hazzard, Discreet

15.10 Coffee, exhibition, demonstrations

SESSION VI

15.20 Knowledge-Based Data Reduction in Volume Visualization
Anders Ynnerman, ITN, Linköpings Universitet

15.50 The Torque Game Engine
Steen L. Nielsen, IMM, DTU

16.10 Real-Time Indirect Illumination
Jeppe Revall Frisvad, IMM, DTU

16.30 Poster Prize, and concluding remarks
Andreas Bærentzen, IMM. DTU

16.45 Exhibition, demonstrations, refreshments

18.00 The Graphical Visionday ends

Student poster prize sponsored by **Microsoft**®

Vision dinner 1 June at Hotel Fortunen sponsored by **IBM**