



VENUE
DTU Informatics
Building 308
DK-2800 Kgs. Lyngby

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

QUESTIONS AND FURTHER INFORMATION
Secretary Eina Boeck
Phone: (+45) 4525 3424
E-mail: info@visionday.dk



REGISTRATION
Register online at www.visionday.dk before 16 May

Participation fee per day 1,200 DKK
Participation fee per day for members¹ 1,000 DKK
Participation fee per day for university employees 600 DKK
Participation fee per day for students² 150 DKK
Dinner at Hotel Fortunen 28 May 19.00 250 DKK

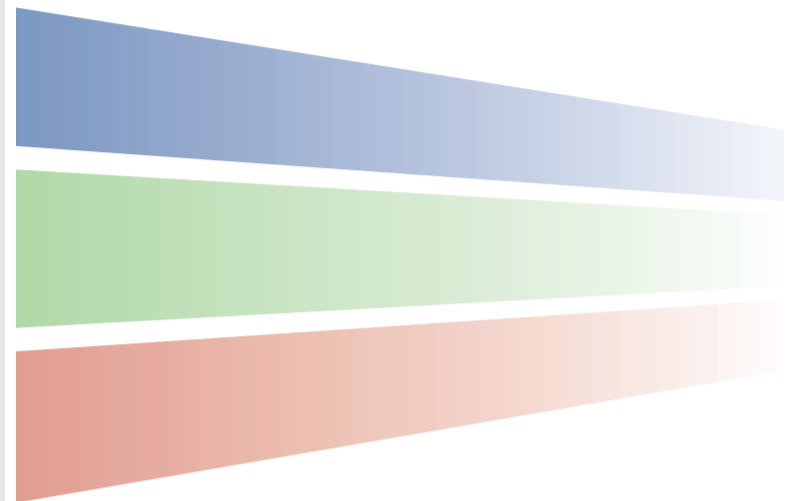
The participation fee covers the scientific program, exhibition, refreshments, and lunch.
All participants are welcome to exhibit equipment or posters.

¹⁾ For members of DAU, DIRA, DMTS, DSAGM, DSTM, EMVA, IGDA and Øresund IT Academy.


²⁾ Students should bring a poster for the exhibition.


PAYMENT
Payment for participation should be settled by 20 May to Danish postal account (girokonto) 1-03-05-74 or to Danske Bank, reg. No. 4180 account No. 4263972007

SWIFT: DABADKKK, IBAN: DK 57 3000 4263972007.
Clearly mark your payment "VISIONDAY" and NAMES of participants




 **INDUSTRIAL** Wednesday 28 May



 **MEDICAL** Thursday 29 May



 **GRAPHICAL** Friday 30 May

VISIONDAY

28 - 30 MAY 2008



DTU Informatics invites companies, organizations and institutions interested in image analysis, vision systems, and computer graphics to three days of presentations and demonstrations.

REGISTRATION
On or before 16 May 2008



08.00 Registration, exhibition, demonstrations, coffee, and rolls

SESSION I

09.00 Welcome and introduction
Vice-rector, Professor Knut Conradsen, DTU

09.10 Opportunities and limitations using low-energy x-ray imaging for fast on-line food inspection
Managing director Jørgen Rheinländer, InnospeXion ApS

09.40 Vision-based spectroscopy - current technologies and future systems from x-ray to NIR
Project manager Poul M. Hansen, FOSS

10.10 Poster teasers

10.30 Coffee, exhibition, demonstrations

SESSION II

11.00 Uniform light sources, LED and reflection measurements with integrating spheres
Managing director Richard Arbus, Laser 2000

11.30 Eat color - colors in the food industry
Professor Søren Balling Engelsen, LIFE, University of Copenhagen

12.00 Lunch, exhibition, demonstrations

SESSION III

13.30 How can liquid food products be measured with vision?
R&D engineer Thomas H. Allin, Videometer A/S

14.00 Inspection of seafood
Presenter to be announced later

14.30 New Vision Technology for Multidimensional Quality Monitoring of Continuous Frying of Meat
Professor Jens Adler-Nissen, DTU Food

15.00 Coffee, exhibition, demonstrations

SESSION IV

15.30 Inspection of vegetables and fruits
Presenter to be announced later

16.00 Poster prize, discussion, and closing remarks
Jens Michael Carstensen, DTU Informatics

16.15 Refreshments, exhibition, demonstrations

17.00 The Industrial Visionday ends

19.00 Vision dinner at Hotel Fortunen

08.00 Registration, exhibition, demonstrations, coffee, and rolls

SESSION I

09.00 Welcome and introduction
Vice-Rector, Professor Knut Conradsen, DTU

09.10 4D CT and 4D PET-CT for planning and dose calculation in radiation therapy
Chief research physicist, Ph.D. Stine S. Korreman, Department of Radiation Oncology, Rigshospitalet

09.40 State-of-the-art CT scanning – beyond visualization
Product specialist Lau Jeppesen, Siemens Medical Solutions

10.10 Poster teasers

10.30 Coffee, exhibitions, demonstrations

SESSION II

11.00 Advanced concepts in medical augmented reality and image guided surgery
Scientist, Ph.D. Jörg Traub, Computer Aided Medical Procedures (CAMP), Technische Universität München

11.30 3D Craniofacial Image Research Laboratory
Research Engineer, Ph.D. Tron Darvann, School of Dentistry, University of Copenhagen

12.00 Lunch, exhibitions, demonstrations

SESSION III

13.30 Using domain knowledge in cardiac image acquisition and analysis
Senior scientist, Ph.D. Cristian Lorenz, Philips Research Europe

14.00 Correction of motion artifacts in cardiac magnetic resonance imaging
Physicist Henrik Pedersen, Functional Imaging Unit, Glostrup Hospital

14.30 Computer-aided diagnosis of coronary artery disease, the EXINI heart application
Scientist, Ph.D. Karl Sjöstrand, EXINI

15.00 Coffee, exhibitions, demonstrations

SESSION IV

15.30 Molecular brain imaging
Professor, Ph.D. Lars Kai Hansen, DTU Informatics

16.00 PET/CT scan in lung cancer using respiratory gating
Scientist, Ph.D. Flemming Andersen, PET-Unit, Rigshospitalet

16.30 Poster prize, discussion and closing remarks
Rasmus Larsen, DTU Informatics

16.40 Refreshments, exhibitions, demonstrations

08.00 Registration, exhibition, demonstrations, coffee, and rolls

SESSION I

09.00 Welcome and introduction
Vice-Rector, Professor Knut Conradsen, DTU

09.10 Precomputing Visibility for Real-Time Rendering of Large Scenes
Michael Wimmer, TU Wien

10.00 Coffee, exhibition, demonstrations

SESSION II

10.15 An Introduction to GPGPU Programming using CUDA
Ojaswa Sharma, DTU Informatics

10.40 Manipulating Digital Photographs on the GPU
Bjarke Jakobsen, Phase One

11.15 3D Graphics for User Interfaces
Thomas Lauritzen, Bang og Olufsen

11.45 Presentation of student posters

12.00 Lunch, exhibition, demonstrations

SESSION III

13.00 Creating Digital 3D Models of Real-World Objects
Michael Trøst, Modelfabrikken

13.45 Analyzing Material Properties Using Graphics Techniques
Jeppe Revall Frisvad, Microsoft

14.15 Coffee, exhibition, demonstrations

SESSION IV

14.30 Rendering Youropa
Mikkel Fredborg, Freclé

14.50 Using Shadow Mapping to Fake Wind Pressure
Keld Ølykke, NDS

15.10 The Technical Challenges Facing an Indie Developer
Gorm Lai, 3 Lives Left

15.30 Coffee, exhibition, demonstrations

SESSION V

15.45 The Rendering Technologies of the CryENGINE® 2
Speaker from CryTek to be announced

16.30 Recreating Copenhagen of the Golden Age for the Computer Game - HCA the Ugly Prince Duckling
Søren Buus, GuppyWorks

17.00 Highlights from graphics projects at IMM, followed by poster prize and concluding remarks
J. Andreas Bærentzen, DTU Informatics

17.30 Exhibition, demonstrations, refreshments

19.00 The Graphical Visionday ends



SPONSORS

Companies and organizations supporting Visionday 08

BANG & OLUFSEN
www.bang-olufsen.com

DTU
www.dtu.dk

FOSS
www.foss.dk

DIGITALARTS
www.digitalarts.dk

VIDEOMETER
www.videometer.com

SIEMENS
www.siemens.com

ITMAN
www.imm.dtu.dk/itman

IBM
www.ibm.com

DALUX
www.dalux.dk

ØRESUND IT ACADEMY
www.oresundit.org