

# Numero

Veckobladet om forskning, undervisning och administration  
på Skolan för datavetenskap och kommunikation



## Numero nr 25

6 september 2007 • Årgång 37

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### Numero är institutionstidningen

på Skolan för datavetenskap och kommunikation vid KTH. Numero utkommer normalt på torsdagsförmiddagar under teminstid.

Manus måste lämnas in före kl.12 på onsdagar. Manus, tips, förslag och andra bidrag till Numero kan lämnas på något av följande sätt:

- via e-post till [numero@nada.kth.se](mailto:numero@nada.kth.se)
- på papper till Nada, Numero, KTH, 100 44 STOCKHOLM (dvs. facket "Numero" bland postfacken på pl 4)

Bidrag för artiklar och notiser bör i största möjliga mån vara färdigformulerade och korrekturlästa.

Varje Numeronummer utkommer i två former:

- På papper för normal postdistribution
- <http://www.csc.kth.se/aktuellt/numero/>

Numeroredaktionen består av Maria Malmqvist. Ansvarig utgivare är Ingrid Melinder. Numeros innehåll uttrycker inte institutionens officiella ståndpunkt annat än då detta anges.

## Underhåll av servrar

Onsdagen den 12/9 med start kl 17.00 kommer underhåll att utföras på en del av CSCs servrar.

Under det att arbetet pågår kommer många unix-datorer på CSC att råka ut för kraftiga störningar. Tjänster som e-post och www kommer också att påverkas.

Systemgruppen CSC  
[system@csc.kth.se](mailto:system@csc.kth.se)

## Server maintenance

Maintenance work on some CSC servers will be performed on Wednesday September 12 starting at 5 pm.

Most UNIX computers at CSC will be heavily affected during this time. Services like email and www will also be affected.

CSC Systems Group  
[system@csc.kth.se](mailto:system@csc.kth.se)

## SNART SMÄLLER DET!

Lördagen den 8 september smäller det från KTH vid campus Valhallavägen. Scenen för Händels sprakande musikstycke "the Royal Fireworks Music" kan väl inte vara på en bättre plats än på Kungliga Tekniska högskolans borggård i Stockholm. Fyrverkerimusiken framförs händelsevis av ett par hundra musiker från nio blåsorkestrar till ett lysande fyrverkeri.

Klockan 19.00 står Upplands-Bro sextetten utanför restaurang Östra Station och välkomnar besökarna. Fram till kl. 20.40 då det spektakulära finalnumret framförs blir det konserter av de nio medverkande orkestrarna.

Operahögskolans rektor Birgitta Svendén, tillika känd mezzosopran på världens operascener, är konferencier och Peter Nordin från Uppsala är pyrotekniker. KTHs tf rektor Anders Eriksson medverkar också. KTHs director Musices Gunnar Julin är dirigent och ansvarig organisatör av programmet.

I Fyrverkeriorkestern på KTH den 8 september 2007 medverkar blåsare ur KTHs Akademiska Kapell, Nacka Symphonic Band, Postorkestern Stockholm, Sala Blåsorkester, Sundbybergs Stadsmusikanter, Templets Musikkår, Täby Blås, Upplands-Bro Sextetten och Vallentuna Blåsorkester. En av den mera kända blåsarna som medverkar är Hans Corell, ambassadör och före

detta rättschef i FN, som spelar säckpipa i Highland Cathedral.

Vill du få utmärkelsen "uppmärksam lyssnare" ska du försöka räkna HUR MÅNGA TUBOR det "pruttas" i under konserten. Det blir också en "Syrpris" i programmet.

Någonting att äta och att dricka finns att köpa i ett restaurangtält på borggården.

Konserten är helt GRATIS!

Välkomna  
director Musices Gunnar Julin

## KTH föreslår Peter Gudmundson som ny rektor

KTHs styrelse föreslår Peter Gudmundson, professor i materialmekanik på KTH, som ny rektor. Det formella beslutet om ny rektor tar regeringen senare i höst.

- Peters långa erfarenhet av forskning och undervisning kompletterad med hans industriella erfarenhet från både mindre och större företag är en fantastiskt bra grund för att leda arbetet med att vidareutveckla KTH, säger KTHs styrelseordförande Cecilia Schelin Seidegård.

Peter Gudmundson, 52, finns i dag i toppen av den akademiska ledningen för KTH, som fakultetens prodekanus.

- Jag är förstas mycket glad över att bli föreslagen och känner mig oerhört sugen på att få leda arbetet med att utveckla KTH vidare till ett internationellt tekniskt toppuniversitet. Jag vet av erfarenhet vilken fantastisk samlad kompetens som finns på KTH. Tillsammans med våra duktiga studenter är det en stadig grund att bygga vidare på, säger han.

Efter att KTHs förre rektor Anders Flodström utsågs till universitetskansler i våras, har nomineringsprocessen varit snabb och effektiv med många högt kvalificerade sökande. En helt enig styrelse står bakom nomineringen av Peter Gudmundson.

Peter Gudmundson är sedan 1993 professor i materialmekanik på KTH, där han även har gått sin civilingenjörsutbildning i teknisk fysik, och disputerat i hållfasthetslära. Mellan 1993 och 2005 ledde han arbetet på institutionen för hållfasthetslära på KTH.

Hans akademiska bana kompletteras med industriella erfarenheter från bland annat Brown Boveri i Schweiz och ett konsultbolag i Vaxholm. En erfarenhet av helt annat slag är elitserieishockey i AIK under studieåren på KTH.

Det formella beslutet om ny rektor tas av regeringen under hösten efter hörande av fakultetsnämnd, studentkår och arbetstagarorganisationerna på KTH. KTHs personal kommer att ha möjlighet att träffa Peter Gudmundson vid en hearing 21 september.

KTH-ekot

## Utlysning

Mobilitetsprogram inom IT:

### Utlysning av medel strategisk mobilitet - Bidrag för personrörlighet mellan akademi och näringsliv

Stiftelsen har delat ut ett antal bidrag à högst 250 000 kr för mobilitet mellan högskola och näringsliv inom informationsteknik. Mobilitetsbidragen kan användas för forsknings- eller kunskapsutbytesvistelse såväl av doktorander/ forskare som av företagsanställda. De ursprungliga medlen är förbrukade, men ytterligare åtminstone ett bidrag kan delas ut. Ansökningar inkomna senast den 4 september 2007 tas upp vid nästa behandlingstillfälle.

Mer info se <http://www.stratresearch.se/>

Nu är det dags för nästa omgång av Innovationsbrons verifieringsprogram FOKUS Verifiering och VINNOVAs verifieringsprogram VINN Verifiering.

Sprid gärna detta till dina kollegor!

### Medel för verifiering av kommersialiserbar forskning!

Innovationsbron Stockholms finansieringsprogram "FOKUS Verifiering" och VINNOVAs "VINN Verifiering" finansierar tidiga stadier i utvecklingen av kommersiellt intressanta forskningsresultat och uppfinningar.

Sökande kan få upp till 200 000 kr från Innovationsbron och upp till 2 miljoner från VINNOVA för att utvärdera och säkra potentiellt kommersiellt intressanta forskningsresultat och uppfinningar.

Sista ansökningsdatum för FOKUS Verifiering denna omgång är den 3 september. Nya tillfällen dyker sedan upp med några månaders mellanrum.

Sista ansökningsdatum för VINN Verifiering denna omgång är den 10 september. Ytterligare ett tillfälle kommer komma under hösten.

Vi på KTH Innovation hjälper er gärna med ansökningsprocessen och det efterföljande verifieringsarbetet. Gå in på [www.kth.se/innovation](http://www.kth.se/innovation) så kan du läsa mer om programmet eller kontakta mig på [notander@kth.se](mailto:notander@kth.se) 08-790 9713 för mer information.

Med vänliga hälsningar  
Gustav Notander

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## Seminarium

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Välkommen till höstens första seminarium i serien  
KOMMUNIKATION: KULTUR, TEKNOLOGI, VETENSKAP

### **AN EXPERT EYE ON YOUR OWN INNER CORPSE: CRITICAL PERSPECTIVES ON CONTEMPORARY MEDICAL IMAGING**

Isabelle Dussauge, Avdelningen för teknik- och vetenskapshistoria, KTH

Temat för HT 2007 är  
"Kulturteknologier och teknikculturer"

Torsdagen den 6 september 2007, kl. 14-16  
Torget, Lindstedtsvägen 5, plan 6, KTH CSC

#### Abstract:

Recent works in STS, medical and media studies have foregrounded medical imaging as a contested site for the cultural production of the body. This presentation aims to highlight how different perspectives articulate the power tensions between medicine's expert gaze and the individual, subjective bodies. I will draw on examples from my research on MRI (magnetic resonance imaging) in Sweden and discuss two main aspects: First, I outline how MRI re-mediate an older history of bodily spectacle that produces specific accounts of 'nature', and challenges the boundaries between the public and the intimate. Second, I will inquire on how MRI still allows for individual, subjective refashionings of medicine's 'objective body'.

Textunderlag: José van Dijck, "The Transparent Body" (2005), kapitel 1;

Isabelle Dussauge, "Interlude 1: Seeing, showing, wording" (finns som pdf på <http://www.nada.kth.se/media/Research/k-sem/k-sem-aktuell/Abstracts/>)

Mer information finns på:

<http://www.nada.kth.se/media/Research/k-sem/k-sem-aktuell/>

*Välkomna!*  
*Leif Dahlberg, PhD, Lecturer,*  
*Director of Studies, KTH CSC*

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Seminar at Speech, Music and Hearing:

### **The male modal and falsetto registers: perceptual relevance of voice source characteristics**

Gláucia Laís Salomao, Pontifical Catholic University, São Paulo

16:00 - 17:00

Friday September 7, 2007

The seminar is held in Fantum.

TCS-seminarium:

### **Generating Propagators for Finite Set Constraints**

Christian Schulte, Department of Electronic, Computer, and Software Systems, KTH ICT

Monday September 10, 13:15, room 1537

Constraint programming is a successful and widely used method for solving combinatorial optimization problems. An essential ingredient for any constraint programming system are propagators implementing constraints performing strong constraint propagation.

Ideally, programming propagators as implementations of constraints should be an entirely declarative specification process for a large class of constraints: a high-level declarative specification is automatically translated into an efficient propagator.

This talk introduces the use of existential monadic second-order logic as declarative specification language for finite set propagators. The approach taken is to automatically derive projection propagators (involving a single variable only) implementing constraints described by formulas. By this, we transfer the ideas of indexicals to finite set constraints while considerably increasing the level of abstraction available with indexicals. We show soundness and completeness of the derived propagators and present a runtime analysis, including techniques for efficiently executing projectors for n-ary constraints.

Joint work with:

\* Guido Tack, Programming Systems Lab, Saarland U, Germany

\* Gert Smolka, Programming Systems Lab, Saarland U, Germany

*Per Austrin*

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Welcome to the below seminar:

### **PORT-BASED MODELING AND SIMULATION OF MECHATRONIC SYSTEMS**

By dr.ir. Peter Breedveld  
Control Engineering Laboratory, Drexel Institute for Mechatronics and Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente

Time and date: Thursday 13 September at 16.00  
Place: Dept of Machine Design, Brinellv 83, 2 tr, Room A425

*Welcome*  
*Jan Wikander*

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## Lunchseminarium på KTH om den internationella utbildningsmarknaden

KTH:s internationella kansli bjuder på ett lunchseminarium den 12 september 2007 kl. 11 - 12 på Hyllan, Restaurang Quantum, Osquldass väg 6

### Program:

- Presentation av KTHs nya policy för internationalisering, Ramon Wyss, vicerektor KTH

- Utvecklingen av "off shore campus" i världen, Marcus Lindahl, KTH Indek, presenterar sin studie Exporting Excellence

- KTHs roll och möjligheter på en global utbildningsmarknad, gemensam diskussion

Anmäl dig senast den 7 september 2007 till kristin2@kth.se <mailto:kristin2@kth.se>

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## Robust Experiment Design

Cristian Rojas

September 13th, 13:15

Seminar room, 5th floor, Osquldass v. 10, KTH

Abstract: In experiment design one aims to find a suitable input signal to maximise the information obtained from an experiment. However, the optimal input typically depends on the actual plant. In this talk we study a game theoretical min-max approach to experiment design to overcome this difficulty, and achieve some degree of robustness with respect to the true values of the plant parameters, and hence determine the optimal robust input spectrum. We also prove several key properties of this spectrum, such as its existence, uniqueness, and finite support. Moreover, to enhance robustness we realise that it is important to use signals which are near optimal over a range of systems. Thus, we introduce "bandlimited 1/f noise" as a signal with such a property.

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Seminar at Speech, Music and Hearing:

## Mer naturlig interaktionskontroll (turtagning) i ett automatiskt kundtjänstsystem

Joakim Gustafson

15:15 - 17:00

Tuesday September 18, 2007

The seminar is held in Fantum.

Linnaeus Center ACCESS  
Distinguished Lecture Series

## Internet economics, Internet evolution, and misleading networking myths

Professor Andrew Odlyzko

Tuesday September 18, 15:15

E2, Lindstedsvägen 3, KTH

### Abstract:

The evolution of the Internet will depend heavily on the interaction between what users want and what technology can deliver, and economics will play a major role. Unfortunately the networking community continues to be guided by a collection of misleading dogmas that impede proper direction of research, development, and deployment. The roles of voice communication, of content, and of streaming real-time transmission versus file transfers are widely misunderstood, which leads to plans that are likely to be seriously flawed.

Biography of Andrew Odlyzko: Andrew Odlyzko is Director of the interdisciplinary Digital Technology Center, holds an ADC Professorship, and is a Professor in the School of Mathematics at the University of Minnesota. Prior to assuming that position in 2001, he devoted 26 years to research and research management at Bell Telephone Laboratories, AT&T Bell Labs, and AT&T Labs, as that organization evolved and changed its name.

He has written over 150 technical papers in computational complexity, cryptography, number theory, combinatorics, coding theory, analysis, probability theory, and related fields, and has three patents. He has an honorary doctorate from Univ. Marne la Vallee and serves on editorial boards of over 20 technical journals, as well as on several advisory and supervisory bodies.

He has managed projects in diverse areas, such as security, formal verification methods, parallel and distributed computation, and auction technology. In recent years he has also been working on electronic publishing, electronic commerce, and economics of data networks, and is the author of such widely cited papers as "Tragic loss or good riddance: The impending demise of traditional scholarly journals," "The bumpy road of electronic commerce," "Paris Metro Pricing for the Internet," "Content is not king," and "The history of communications and its implications for the Internet." He may be known best for an early debunking of the myth of Internet traffic doubling every three or four months.

Andrew Odlyzko's email address is odlyzko@umn.edu, and all his recent papers as well as further information can be found on <http://www.dtc.umn.edu/~odlyzko/>.

*Welcome  
Bo Wahlberg and Gunnar Karlsson*

## On Length, Width and Space in Resolution

Jakob Nordström, Theory Group, KTH CSC

Thursday September 13, 10:00 AM, room 1635  
plan 6, Osquars backe 2 / Lindstedtsvägen 3.  
(NB! Not the usual time and place)

Determining whether a propositional logic formula is a tautology, i.e., whether it is satisfied by all truth value assignments, is a fundamental problem both from a theoretical and a practical point of view. On the one hand, it is closely related to central questions in computational complexity and mathematics (e.g. the  $P \stackrel{?}{=} NP$  millennium problem of the Clay Mathematics Institute). On the other hand, designing efficient algorithms for proving tautologies, or equivalently refuting unsatisfiable formulas, is a very important problem in applied research and in industry, e.g. in the context of formal methods.

In this talk, we will focus on resolution, which proves tautologies by showing that their negations, expressed as CNF formulas, are unsatisfiable. It is arguably the single most studied propositional proof system, and many real-world automated theorem provers are based on it.

For resolution, two important complexity measures are the minimum length of a proof for a formula and the minimum space of a proof. The length, or number of lines, gives a lower bound on the time needed for any algorithm producing a resolution proof, and the space measure tells us the minimum amount of memory needed while searching for a proof. A third interesting measure turns out to be the width, which is the maximal number of variables in any line in the proof. Studying the measures of length, width and space, and relating them to one another, can help us devise good heuristics and/or understand the limitations of different approaches for proving tautologies.

In the first half of the talk, we will review some of the significant (and surprising!) results relating length, space and width, and also try to briefly sketch our own contribution to the area.

In the second half, we will present some interesting open problems, which should be readily accessible to a general computer science and mathematics audience.

This talk is a tutorial that will be given at The Fall School of Logic and Complexity '07 in the Czech Republic, and it will therefore be held in English. It is intended to last for 2x45 minutes. No prerequisites are needed, apart from a basic knowledge of (propositional) logic. Feedback will be most welcome.

<http://www.csc.kth.se/tcs/phdseminars/#070913>

*Jakob Nordström*

## Disputationer

### Adaptivity for Stochastic and Partial Differential Equations with Applications to Phase Transformations

Respondent: Erik von Schwerin, Numerisk Analys

17 september, kl 13:00  
Sal F3, Lindstedtsvägen 26

Opponent: Professor Desmond Higham, Univ of Strathclyde, Scotland

Handledare: Professor Anders Szepessy

#### Abstract

This work is concentrated on efforts to efficiently compute properties of systems, modelled by differential equations, involving multiple scales. Goal oriented adaptivity is the common approach to all the treated problems. Here the goal of a numerical computation is to approximate a functional of the solution to the differential equation and the numerical method is adapted to this task.

The thesis consists of four papers. The first three papers concern the convergence of adaptive algorithms for numerical solution of differential equations; based on a posteriori expansions of global errors in the sought functional, the discretisations used in a numerical solution of the differential equation are adaptively refined. The fourth paper uses expansion of the adaptive modelling error to compute a stochastic differential equation for a phase-field by coarse-graining molecular dynamics.

An adaptive algorithm aims to minimise the number of degrees of freedom to make the error in the functional less than a given tolerance. The number of degrees of freedom provides the convergence rate of the adaptive algorithm as the tolerance tends to zero. Provided that the computational work is proportional to the degrees of freedom this gives an estimate of the efficiency of the algorithm.

The first paper treats approximation of functionals of solutions to second order elliptic partial differential equations in bounded domains of  $\mathbb{R}^d$ , using isoparametric  $d$ -linear quadrilateral finite elements. For an adaptive algorithm, an error expansion with computable leading order term is derived and used in a computable error density, which is proved to converge uniformly as the mesh size tends to zero. For each element an error indicator is defined by the computed error density multiplying the local mesh size to the power of  $2 + d$ . The adaptive algorithm is based on successive subdivisions of elements, where it uses the error indicators. It is proved, using the uniform convergence of the error density, that the algorithm either reduces the maximal error indicator with a factor or stops; if it stops, then the error is asymptotically bounded by the tolerance using the optimal number of elements for an adaptive isotropic mesh, up to a problem independent factor. Here the optimal number of elements is proportional to the

$d/2$  power of the  $L^{\frac{d}{d+2}}$  quasi-norm of the error density, whereas a uniform mesh requires a number of elements proportional to the  $d/2$  power of the larger  $L^1$  norm of the same error density to obtain the same accuracy. For problems with multiple scales, in particular, these convergence rates may differ much, even though the convergence order may be the same.

The second paper presents an adaptive algorithm for Monte Carlo Euler approximation of the expected value  $E[g(X(\tau), \tau)]$  of a given function  $g$  depending on the solution  $X$  of an Itô stochastic differential equation and on the first exit time  $\tau$  from a given domain. An error expansion with computable leading order term for the approximation of  $E[g(X(\tau))]$  with a fixed final time  $T > 0$  was given in [Szepessy, Tempone, and Zouraris, Comm. Pure and Appl. Math., 54, 1169-1214, 2001]. This error expansion is now extended to the case with stopped diffusion. In the extension conditional probabilities are used to estimate the first exit time error, and differ ence quotients are used to approximate the initial data of the dual solutions. For the stopped diffusion problem the time discretisation error is of order  $N^{-1/2}$  for a method with  $N$  uniform time steps. Numerical results show that the adaptive algorithm improves the time discretisation error to the order  $N^{-1}$ , with  $N$  adaptive time steps.

The third paper gives an overview of the application of the adaptive algorithm in the first two papers to ordinary, stochastic, and partial differential equation.

The fourth paper investigates the possibility of computing some of the model functions in an Allen-Cahn type phase-field equation from a microscale model, where the material is described by stochastic, Smoluchowski, molecular dynamics. A local average of contributions to the potential energy in the micro model is used to determine the local phase, and a stochastic phase-field model is computed by coarse-graining the molecular dynamics. Molecular dynamics simulations on a two phase system at the melting point are used to compute a double-well reaction term in the Allen-Cahn equation and a diffusion matrix describing the noise in the coarse-grained phase-field.

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## Kurs

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Graduate Course: FDD3001, DD3001:  
**Research - Theory, Method, Practice**

Kurstart 6/9 kl 15:15 i rum 1537.

Beskrivning:

<http://www.nada.kth.se/~stefan/rtmp.html>

Stefan Arnborg, CSC/Nada, KTH

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## Exjobb

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Nästa exjobbseminarium i MDI äger rum fredagen den 14/9 klockan 10:15 på Torget. Lindstedtsvägen 5, plan 6.

Sofia Chiang

### Ett intranäts betydelse för ett snabbt växande konsultbolag

Sammanfattning: <http://www.nada.kth.se/utbildning/grukth/exjobb/>

rapportlistor/2007/sammanf07/chiang\_sofia.html

Program: Datateknik

Handledare: Kristina Groth

Examinator: Kerstin Severinson-Eklundh

Opponent: Louise Fritzell

Seminarieledare: Kerstin Severinson-Eklundh

Fredrik

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X-job seminarat Speech, Music and Hearing:

### Sonification of a diary

Anna de Witt

Friday September 7, 2007, 15:15 - 16:00

The seminar is held in Fantum.

Abstract

Different design approaches contributed to what we see today as the prevalent design paradigm for Human Computer Interaction; though they have been mostly applied to the visual aspect of interaction. In this master's thesis a proposal for sound design strategies is presented that can be used in applications involving affective interaction. The sonification of the Affective Diary, a digital diary with focus on emotions, affects, and bodily experience of the user is proposed for testing this approach. Results from studies in music and emotion to sonic interaction design were applied to the design.

This is one of the first attempts introducing different physics-based models for the real-time complete sonification of an interactive user interface in portable devices.

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## PåGång

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### Qi-gong: Måndagar kl 9.00 Fredagar kl 11.15

Ett pass tar ca 20 minuter och gör gott för axlar och rygg när du sitter mycket framför datorn. Kom som du är, ingen föranmälan, inget ombyte behövs.

Vecka 36	7 sep	kl 11.15	rum 4523
Vecka 37	10 sep	kl 9.00	rum 4523
	14 sep	kl 11.15	rum 4523
Vecka 38	17 sep	kl 9.00	rum 4523

**6 september 2007, kl. 14-16**, Seminarium i serien KOMMUNIKATION: KULTUR, TEKNOLOGI, VETENSKAP  
AN EXPERT EYE ON YOUR OWN INNER CORPSE: CRITICAL PERSPECTIVES ON CONTEMPORARY MEDICAL  
IMAGING, Isabelle Dussauge, Avdelningen för teknik- och vetenskapshistoria, KTH. Torget,  
Lindstedtsvägen 5, plan 6, KTH CSC

**7 september. kl. 14** INVIGNING  
QUOTTIS KTHs tillfälliga barnpassning för barn 6-36 månader

**7 September 2007, 15:15 - 17:00**, X-job seminar at Speech, Music and Hearing:  
Sonification of a diary, Anna de Witt, The seminar is held in Fantum.

**7 September 16:00 - 17:00**, Seminar at Speech, Music and Hearing:  
The male modal and falsetto registers: perceptual relevance of voice source characteristics,  
Gláucia Laís Salomao, Pontifical Catholic University, São Paulo. The seminar is held in Fantum.

**8 september 19.00**, Fyrverkerikonsert  
Lördagen den 8 september smäller det från KTH vid campus Valhallavägen. Scenen för Händels sprakande  
musikstycke "the Royal Fireworks Music", på Kungliga Tekniska högskolans borggård i Stockholm.

**10 September, 13:15** TCS-seminarium:  
Generating Propagators for Finite Set Constraints, Christian Schulte, Department of Electronic, Computer,  
and Software Systems, KTH ICT, room 1537

**10 September, 13:15** TCS-seminarium:  
Generating Propagators for Finite Set Constraints, Christian Schulte, Department of Electronic, Computer,  
and Software Systems, KTH ICT, room 1537

**11 september 2007, kl. 13.30-16.30**, Konferens  
Konferens: Uppfinnare, entreprenörskap och tillväxt i den globala ekonomin. Plats: Konferenscenter  
Rosenbad, Drottninggatan 1, Stockholm

**12 september 2007 kl. 11 - 12** Lunchseminarium på KTH om den internationella utbildningsmarknaden  
KTH:s internationella kansli bjuder på ett lunchseminarium på Hyllan, Restaurang Quantum, Osquldas väg 6

**12 september start kl 17.00** Underhåll av servrar  
kommer underhåll att utföras på en del av CSCs servrar.

**13 september 2007, klockan 10.00 -17.00** Konferens  
Strategiskt Jämställdhetsarbete Kunskap Dialog och Resultat. Plats: Volvo i Göteborg

**13 September, 10:00 AM**, Seminar  
On Length, Width and Space in Resolution . Jakob Nordström, Theory Group, KTH CSC, room 1635  
plan 6, Osquars backe 2 / Lindstedtsvägen 3.

**13 September, 13:15**, Seminar  
Robust Experiment Design, Cristian Rojas. Seminar room, 5th floor, Osquldas v. 10, KTH

**13 September at 16.00**, seminar:

PORT-BASED MODELING AND SIMULATION OF MECHATRONIC SYSTEMS. By dr.ir. Peter Breedveld, Dept of Machine Design, Brinellv 83, 2 tr, Room A425

**14 september 10:15** exjobbseminarium i MDI

Ett intranäts betydelse för ett snabbt växande konsultbolag, Sofia Chiang på Torget. Lindstedtsvägen 5, plan 6.

**17 september, kl 13:00** Disputation

Adaptivity for Stochastic and Partial Differential Equations with Applications to Phase Transformations Erik von Schwerin, Numerisk Analys. Sal F3, Lindstedtsvägen 26

**18 September 15:15 - 17:00** Seminar at Speech, Music and Hearing:

Mer naturlig interaktionskontroll (turtagning) i ett automatiskt kundtjänstsystem. Joakim Gustafson The seminar is held in Fantum.

**18 September, 15:15** Linnaeus Center ACCESS Distinguished Lecture Series

Internet economics, Internet evolution, and misleading networking myths. Professor Andrew Odlyzko E2, Lindstedtsvägen 3, KTH

**23-24 oktober.** COMSOL Conference 2007

COMSOL Conference 2007 i Grenoble på Europole, World Trade Center of Grenoble, France

**INVIGNING  
QUOTTIS PÅ KTH  
FREDAGEN  
DEN 7 SEPT.  
KL 14**



## Seminarielänkar

### AlbaNova

<http://www.albanova.se/aktuellt/>

### Avdelningen för teknik- och vetenskapshistoria

[www.teknikhistoria.se](http://www.teknikhistoria.se)

### Bråket

<http://www.math.kth.se/braaket.html>

### Center for Industrial and Applied Mathematics

<http://www.ciam.kth.se/seminars.html>

### INSTITUT MITTAG-LEFFLER SEMINARS

[www.ml.kva.se](http://www.ml.kva.se)

### Kommunikationsseminarium:

<http://w1.nada.kth.se/media/Research/k-sem/k-sem-aktuellt/>

### KTH Matematik

<http://www.math.kth.se/optysyst/seminar/>

### KTH – Computational Science and Engineering Centre

<http://www.kcse.kth.se/seminars.html>

### S3

<http://www.s3.kth.se/>

### SICS

<http://www.sics.se/research/seminars.php>

### Stacken

<http://www.stacken.kth.se/kalender/>

### Stockholm Bioinformatics Center and Dept Num Analysis and Comp Science

<http://www.sbc.su.se/seminars/>

### TMH, Tal, musik och hörsel

<http://www.speech.kth.se/seminars/>

### Wireless@kth

<http://www.wireless.kth.se>