MEDDELELSER, v/Morten Frydenberg
Institut for Biostatistik
Aarhus Universitet

BREV
Ukonvoluteret

PP
Danmark

Returneres ved varig adresseændring

Næste nummer af MEDDELELSER udkommer 3. november 1997.

Bidrag til dette nummer skal være redaktøren i hænde senest

fredag den 24. oktober 1997.

Bidrag sendes til:

MEDDELELSER, v/Morten Frydenberg
Institut for Biostatistik
Høegh-Guldbergs Gade 10
8000 Århus C.
eller med e-mail til: morten@biostat.aau.dk

Samme adresse bedes benyttet ved **indmeldelse** i DSTS og ved **adresseændring**.

Bidrag i elektronisk form ønskes helst i et af nedenstående formater: Word, LATEX, HTML, Postscript eller ASCII.

MEDDELELSER

Dansk Selskab for Teoretisk Statistik

Foredrag i selskabet

tirsdag den 28. Oktober kl. 17.00, H.C. Ørsted Instituttet, Aud 10.

Structural models for differential treatment action in randomized studies with noncompliance

Juni Palmgren[1] and Pasi Korhonen[2]
[1]Mathematical Statistics, Stockholm University, [2] Rolf Nevanlinna Institute, University of Helsinki

This presentation is a sequel to the presentation 'Adjustment for noncompliance in randomized studies'. We assume that the effect of treatment on the disease outcome for an individual depends on measured baseline covariates, and that compliance with the treatment protocol is related to these same covariates. In addition, compliance is related to the outcome through unmeasured confounders. The aim is to estimate the magnitude of the effect of treatment as fuction of baseline covariates. We use a structural accelerated failure time model to link potential failure time outcomes, and we use a randomization based inference procedure which draws on results for estimating regression parameters using linear rank tests for censored data (Tsiatis: Annals of Statistics 1991). We sketch informal ideas for increasing efficiency in the estimation procedure and for diagnostic testing of the structural model. We discuss applications to the ATBC Study and to a study on vitamin A deficiency in children.

Øl og evt. spisning med foredragsholderen bagefter på Barcelona for de der har lyst.
Tilmelding til spisning skal ske til formanden på tlf. 3532 7918/3532 7901.

Tiltrædelsesforelæsning

Michael Sørensen

Titel: Statistiske problemer i forbindelse med stokastiske differentialligninger

Tid: torsdag den 23. oktober, kl. 15.15
Sted: H.C. Ørsted Instituttet, Aud 3.

Efter forelæsningen inviterer Afdeling for Teoretisk Statistik, KU på et let traktement i vær. 419, bygning E.

22. årgang nr. 7 Oktober 1997

Selskabets bestyrelse:

Formand: Peter Dalgaard Biostatistisk Afdeling Panum Instituttet Blegdamsvej 3 2200 København N	Tlf: 3532 7918 Fax: 3532 7907 e-mail: p.dalgaard@biostat.ku.dk
Kasserer: Bendix Carstensen Statens Veterinære Serumlaboratorium Bülowsvej 27 1790 København V	Tlf: 3530 0139 Fax: 3530 0120 e-mail: bxc@svs.dk
Redaktør: Morten Frydenberg Institut for Biostatistik Aarhus Universitet Høegh-Guldbergs Gade 10 8000 Århus C	Tlf: 8942 3167 Fax: 8942 3166 e-mail: morten@biostat.aau.dk
Sekretær: David Edwards Novo Nordisk Krogshøjvej 5 2880 Bagsværd	Tlf: 4444 8888 4442 6135 *(direkte)* Fax: 4444 4210 e-mail: DEd@novo.dk
Jyske anliggender: Susanne Christensen Institut for Elektroniske Systemer Aalborg Universitet Frederik Bajersvej 7 9200 Aalborg Øst	Tlf: 9635 8080 9635 8861 *(direkte)* Fax: 9815 8129 e-mail: susanne@iesd.auc.dk
Indkøbschef: Peter Allerup Danmarks Pædagogiske Institut Hermodsgade 28 2200 København N	Tlf: 3181 0140 Fax: 3181 4551 e-mail: nimmo@dpi.dk

Selskabets www-adresse: Http://www.dsts.dk.

Generiske e-mail-adresser i selskabet:

Formand: fmd, formand, chair, chairman **Kasserer:** kass, kasserer, treas, treasurer
Redaktør: red, redaktoer, edit, editor **Sekretær:** sekr, sekretaer, secr, secretary
Jyske anliggender: jysk, jyskeanl, jutland
Indkøb: indk, indkoeber, suppl, supplier
Meddelelser: medd, meddelelser, newsl, newsletter
Bestyrelsen: best, bestyr, bestyrelse, board

Hvis man f.eks, skal skrive til formanden, så kan man bruge adressen: fmd@dsts.dk.

Ph.D.-forelæsning

Henrik Wachmann

Titel: Uses of epidemic and statistical models in the surveillance of infectious diseases

Tid: mandag den 3. november, kl. 14.30
Sted: Dam auditoriet, Panum Instituttet
Blegdamsvej 3, 2200 København N.

Doktorforsvar

Det teknisk-naturvidenskabelige fakultet ved Aalborg Universitet har til forsvar for den naturvidenskabelige doktorgrad antaget en afhandling af professor Bent Jørgensen:

"The Theory of Dispersion Models"

Tid: fredag den 14. november 1997 kl. 13.00 præcis
Sted: Auditorium B3-104, Fredrik Bajers Vej 7.

De officielle opponenter er professor Peter McCullagh, Department of Statistics, University of Chicago og professor Steffen Lilholt Lauritzen, Institut for Elektroniske Systemer, Aalborg Universitet.

Forsvaret er offentligt, alle er velkomne.

Afhandlingen ken erhverves uden beregning ved henvendelse til Lene Nielsen, Afd. for Biometri og Informatik, Forskningscenter Foulum, Postboks 50, 8830 Tjele.

Afhandlingen er fremlagt til gennemsyn på Det teknisk-naturvidenskabelige fakultetskontor, Fredrik Bajers Vej 7 F, 9220 Aalborg Øst fra den 1. oktober 1997.

SEMINAR I ANVENDT STATISTIK

mandag d. 27. oktober 1997, kl 15.15, lokale 21.1.25a
Panum Instituttet, Blegdamsvej 3.
(Indgangen Nørre Alle 20 kan også benyttes).

Adjustment for noncompliance in randomized studies

Juni Palmgren[1] and Pasi Korhonen[2]
[1]Mathematical Statistics, Stockholm University, [2] RoIf Nevanlinna Institute, University of Helsinki

In a placebo controlled randomized study the primary analysis is based on the 'intention to treat, principle, i.e. treatment groups are compared 'as randomized', regardless of subsequent compliance with the treatment protocol. Even under noncompliance this comparison results in valid tests for the null hypothesis of no treatment effect, but the power of the test decreases as noncompliance increases, and estimates of the magnitude of the treatment effect are attenuated. Any attempt to capture the effect of treatment 'as received' needs to accomodate the likely dependence between the compliance pattern and the response. Through a simple example we introduce a procedure based on potential outcomes and randomization based inference. The treatment group assignment is here used as a so called 'instrument', a notion known from econometrics for handling estimation of regression parameters in normal linear models where errors are correlated with covariates (Cf Angrist, Imbens and Rubin: JASA 1996). We extend the argument to right censored failure time data (Cf Robins and Tsiatis; Comm Statist A 1991). We present simulation results and we use the procedure to adjust for noncompliance when assessing the effect of beta carotene supplementation on mortality in the ATBC Study.

Der serveres te i Biostatistisk Afdeling på gangarealet (33.4.11) kl. 14.45.

Todagesmøde i Aalborg
18.-19. november 1997

Foredragsholdere:

Bjarne Højgaard
Antti Penttinen
Heidi Andersen
Steffen Lauritzen
Peter McCullagh
Bent Jørgensen

Pris for deltagelse:

Voksne: 400 kr.
Studerende: 200 kr.

Program og praktiske oplysninger kommer i næste nummer af MEDDELELSER.

Bemærk, at der afholdes kommunalvalg den 18.11. **Derfor husk at brevstemme!!**

IMM SEMINAR

Tirsdag den 7. oktober kl. 13.15-14.00
i bygning 305, rum 053, DTU, 2800 Lyngby

Rigorous Global Search: Industrial Applications

Professor George F. Corliss
Department of Mathematics
Marquette University, Milwaukee
Wisconsin, USA

We are currently working on several industrial applications of interval techniques for global optimization, including problems from Sun Microsystems (software development), MacNeal-Schwindler (finite element), Bank One (portfolio management), Swiss National Bank (currency trading), GE Medical Systems (AC motor design), Genome Thereputics (gene search), and NASA (design). We suggest why rigorous techniques can be effective some of their limitations.

Coffee and tea will be served.

7th Nordic Conference on Mathematical Statistics

June 8-12, 1998

Elsinore, Denmark

First announcement

Special Invited Lectures

- Søren Asmussen, Department of Mathematical Statatistics, Lund University, Sweden:
  Markovian distributions and point processes: Applied probability analysis and statistical inference
- Ib Skovgaard, Royal Veterinary and Agricultural University, Copenhagen:
  Asymptotic expansions

Invited Lectures

- Elja Arjas, Section of Biometry, University of Helsinki:
  Bayesian inference
- Knut Conradsen, Institute of Mathematica1 Modelling, Technical University of Denmark:
  Image analysis.
- Ulla Hoist, Department of Mathematica1 Statistics, Lund University: *Analysis of environmental data.*
- Per Mykland, Department of Statistics, University of Chicago: *Likelihood and martingales.*
- Antti Penttinen, Deptartment of Statistics, University of Jyväskylä: *Spatial statistics in biology.*

Sessions

A number of special-topic sessions will be organized. Contributed papers can be submitted to the organizers of the sessions. The topis of the sessions will be annonuced later.

Venue

The "LO-school", Elsinore. The school/conference centre is an independent institution with a strong affiliation to the Danish trade union movement. It is situated in the North-Western part of Elsinore in an old park with a view to Kattegat. The distance to Kronborg Castle and the old part of Elsinore is about 3 km.

Accommodation

Primarily at the school itself, and at the neighbouring "Højstrupgård". There are also camping facilities and a youth hostel nearby.

Conference fees

Reduced, including breakfast and lunch	DKK 2500
Ordinary, including breakfast, lunch and dinner	DKK 3000
Extended, including breakfast, lunch, dinner and room Monday-Friday	DKK 5700

Students are given a discount of DKK 1000 on these prices.

All fees are inclusive of conference material and conference dinner on Thursday evening.

Social events

Wednesday afternoon there will be arranged tours to selected places of interest in the vicinity of the congress.

Organizer

Danish Society for Theoretical Statistics

Organizing Committee

- Peter Allerup
- Bendix Carstensen
- Peter Dalgaard
- Helle Holst
- Kim Knudsen
- Niels Trolle Andersen

Programme Committee

- Peter Dalgaard
- Dorte Kronborg (chair)
- Steffen Lauritzen (representing Scandinavian Journal of Statistics)
- Mats Rudemo
- Michael Sørensen

Web site

Current information updates are available at **www/dsts.dk/nordisk.konf**

THE FINNISH
STATISTICAL SOCIETY

BAYESIAN HIERARCHICAL MODELS

Annual Meeting of the Finnish Statistical Society
November 6-7, 1997
Helsinki, Finland

SECOND ANNOUNCEMENTAND CALL FOR PAPERS

The Finnish Statistical Society
National Public Health Institute
Rolf Nevanlinna Institute

Organisers
The meeting is organised by the Finnish Statistical Society in co-operation with National Public Health Institute (KTL) and Rolf Nevanlinna Institute (University of Helsinki). The aim is to introduce new developments and applications of Bayesian statistics to analyse complex hierarchical models which can be characterized and simplified by local conditional independence relations. Computational aspects in the estimation by Markov chain Monte Carlo (MCMC) methods will also be dealt with in the meeting.

Invited speakers
- Prof. Peter Green, University of Bristol, UK
- Prof. David Spiegelhalter, MRC, Cambridge, UK
- Prof. Heikki Mannila, University of Helsinki, Finland

Scientific programme
The programme will have invited and contributed paper sessions and presentations of joint research projects between National Public Health Institute (KTL) and University of Helsinki. The topics of the contributed papers do not have to relate to the main topic of the meeting.

Preliminary program:

Thursday, November 6

09.00- 9.15	Opening
9.15-10.45	Invited paper session (Spiegelhalter/Green)
11.00-11.45	Invited paper session (Spiegelhalter/Green)
11.45-12.30	Invited paper session (Mannila)
13.30-14.15	Invited paper session (Mannila)
14.15-15.00	Research projects
15.30-17.00	Contributed papers
17.00-18.00	Joint meeting of the statistical departments and research institutes
20.00-	welcome party

Friday, November 7

09.15-10.45	Invited paper session (Spiegelhalter/Green)
11.00-11.45	Invited paper session (Spiegelhalter/Green)
11.45-12.30	Comment end discussion
13.30-14.15	Comment and discussion
14.15-15.00	Research projects
15.30-16.00	Research projects
16.00-17.00	Contributed papers
17.00	Closing

The final program will be distributed to the participants at registration.

Venue
University of Helsinki, Main building, Small Festival Hall, Fabianinkatu 33, 4th floor.

Submission of abstracts
The abstracts of the contributed papers (maximum one page) must be submitted not later than October 1, 1997 to the Organising Committee (see the contact addresses below). The abstracts will be reproduced from the original material and are handed out to the participants at registration. The speakers will have a possibility to publish their paper or a revised version of it in the Yearbook of the Finnish Statistical Society after the meeting.

Social Programme
A welcome party will be arranged in the evening of November 6, 1997.

Registration and payments
Please complete and return the registration form not later than October 1, 1997 to the Finnish Statistical Society. The registration form and this announcement is available also on the home page of the Society: http//www.stat.füsts. The latest news of the meeting can be found from the home page which will be updated in case of changes.

The registration fee is FIM 400 (FIM 500 after September 30). It includes the abstracts of the invited and contributed papers, scientific exhibitions and the welcome party. The fee for full-time undergraduate students is FIM 250.

The registration fee should be paid by a money transfer in Finnish marks to the account of the Finnish Statistical Society: Postipankki, Helsinki, Finland, postgiro account 800018-1763443.

Accommodation
The participants are kindly asked to arrange the accommodation themselves. Information of the hotels in Helsinki is available in the Internet: http: //www.hel.fi/

Organising Committee
Elja Arjas, University of HelsinkUKTL
Mervi Eerola, The Finnish Statistical Society/KTL
Leena Hietaniemi, The Finnish Statistical Society/Statistics Finland
Jukka Jokinen, The Finnish Statistical Society
Mikko Virtanen, KTL

Contact addresses

Mervi Eerola National Public Health Institute (KTL) Mannerheimintie 166 00300 Helsinki tel. 358-9-4744 682 e-mail: Mervi.Eerola@ktl.fi

Leena Hietaniemi Statistics Finland PL 4A 00022 Statistics Finland tel. 358-9-1734 2372 e-mail: Leena.Hietaniemi@stat.fi

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Registration form:

BAYESIAN HIERARCHICAL MODELS

Annual Meeting of the Finnish Statistical Society
Helsinki, November 6-7,1997

Please complete and return this fonn not later than October 1,1997 to the address:

Leena Hietaniemi
Secretary of the Finnish Statistical Society
PL 4A
FIN-00022 Statistics Finland, Finland

or by fax: 358-9-1734 3251

Family name: _____

First name: _____

Address: _____

Telephone: _____ fax: _____

E-mail: _____

I will present a paper on the topic: _____

_____

A payment of the amount of FIM has been transferred to the account of the Finnish Statistical Society: Postipankki, Helsinki,Finland 800018-1763443.
Please note Bayesian hierarchical models and your name on the money order and attach a copy to this form.

Date: _____ Signature: _____

AFDELING FOR MATEMATIK
INSTITUT FOR ELEKTRONISKE SYSTEMER
AALBORG UNIVERSITET
FREDRIK BAJERS VEJ 7E · DK-9220 AALBORG Ø
Telefon: 96 35 80 80 Telefax: 9815 8129

SEMINAR

Torsdag den 9. oktober 1997 kl. 14 i lokale E3-109
Steen Markvorsen, Institut for Matematik, DTU:
Shadows of Curvature

Resume: Curvature is one of the most important concepts of classical as well as of modern differential geometry.

In this talk we display some of the hallmarks of curvature via Mathematica graphics animations.
Specifically we discuss and outline the role of curvature in the following elementary scenarios:

(i) The pendulum-elasticum analogy
(ii) Frenet flights along space curves
(iii) How to keep up angular momentum on surfaces of revolution
(iv) Some informative details about surface guillotination

Vært: Martin Raussen

Torsdag den 16. oktober 1997 kl. 14 i lokale E3-109
Thomas H. Scheike, Department of Biostatistics, University of Copenhagen:
Frailty models for retrospectively ascertained waiting times

Resume: In this talk I present joint work with J.H. Petersen and T. Martinussen from the Biostatistics Dept. in Copenhagen.

Data obtained through retrospective ascertainment are used for many important purposes. One example of such data is the occurrences of AIDS cases (Kalbfleisch & Lawless (1989) (KL)). Here individuals included in a given study must be identified as cases at the calendar time when the study is closed. The identification of a case is done at the time of the outbreak of the disease, and therefore we can only include individuals for whom the date of HIV-infection and the induction-time results in an AIDS diagnosis before the closing of the study. If the interest is focused on the induction time distribution several approaches to inference may be taken (KL). The aim of this talk is to analyse recurrent events obtained through retrospective ascertainment, to do this we consider a regular Frailty model adapted to the particular sampling scheme and a Frailty model with fixed marginals. The results based on the analysis of the recurrent events are compared to an analysis for univariate survival data as in Scheike and Jensen (1997) (Biometrics).
The work is motivated by a time to pregnancy study conducted in Odense.

Vært: Jesper Møller

Torsdag den 23. oktober 1997 kl. 14 i lokale E3-109

Niels Væver Petersen , Afdeling for Teoretisk Statistik , Aarhus Universitet:
Statistisk, analyse af functional Magnetic Resonance billeder

Resume: Functional Magnetic Resonance Imaging (fMRI) er en teknik, hvor man anvender hurtige MR-scannere til at kortlægge hjernens neurofunktionelle centre. Når et konkret center i hjernen aktiveres, ændres sammensætningen af oxyhaemoglobin og deoxyhaemoglobin i blodkarrene umiddelbart omkring neuronerne. Dette registreres i MR billeder som en intensitets stigning. Ved et typisk eksperiment påvirkes en forsøgsperson med en ekstern stimulering, f.eks. et blinkende lys i øjnene, samtidig med at en serie scanningsbilleder optages. Formålet med den statistiske analyse af billederne er at identificere områder i hjernen, hvor intensiteten stiger og falder i takt med stimuleringen, altså områder, der aktiveres af den pågældende stimulering. Statistiske problemer i denne forbindelse har blandt andet ført til nye resultater vedrørende maxima af Gaussiske random fields. Med udgangspunkt i et konkret datamateriale vil centrale problemer i forbindelse med analysen af fMRI-billeder blive diskuteret.

Vært: Martin Bøgsted Hansen

Torsdag den 13. november 1997 kl. 13-15 i lokale E3-109. Bemærk tidspunktet.

Peter McCullagh, Department of Statistics, University of Chicago:
Invariance and linear models

Resume: The marginality principle for factorial designs requires each interaction term in a model to be accompanied by all associated marginal terms. This principle is given two mathematical interpretations. Selection invariance is concerned with self-consistency of models under selection of factor levels. Monoid invariance is concerned with self-consistency under the formation of sub-factors. It is shown that group invariance permits models that are in violation of the marginality principle, but monoid invariance and selection invariance coincide exactly with the factorial models obeying the principle. For designs in which the observations are indexed by the same factor twice, so-called homologous factors, the two interpretations diverge, monoid-invariance being the stronger condition Homologous factors occur frequently in genetics and in matched pairs designs. It is shown, for example, that symmetry and quasi-symmetry are monoid-invariant models. Marginal homogeneity is group-invariant but neither selection invariant nor monoid-invariant.

The beginnings of an algebra for monoid-invariant subspaces involving homologous factors is described and illustrated by a complete diallel-cross design in which A and B are homologous factors for the true-breeding maternal parent types, and C, D are homologous factors for the paternal parents. In this algebra, the single-locus Mendelian model with a alleles is

$$L_1 = \mathrm{sym}^4(\mathrm{sym}(A, C) + \mathrm{sym}(B, D) + \mathrm{sym}(A, D) + \mathrm{sym}(B, C)),$$

and the multi-locus model is the vector space

$$L_2 = \mathrm{sym}(\mathrm{sym}(A, B), \mathrm{sym}(C, D)).$$

The dimensions are $a(a+1)/2$ and $a(a+1)(a^2+a+2)/8$ respectively. Non-Mendelian patterns of inheritance are characterized by a non-zero projection on to certain 'orthogonal' subspaces. Imprinting, for example, is associated with the subspace

$$I_1 = \mathrm{sym}^4(\mathrm{alt}(A, C) + \mathrm{alt}(B, D) + \mathrm{alt}(A, D) + \mathrm{alt}(B, C))$$

or more correctly with the quotient spaces $(L_1 + I_1)/L_1$ or $(L_2 + I_1)/L_2$ of dimension $a(a-1)/2$.

Vært: Steffen L. Lauritzen

Torsdag den 20. november 1997 kl. 14 i lokale E3-109

Martin Bendsøe, Institut for Matematik, DTU:
Bounds on degradation in structures

Resume: In this talk we will discuss various types of problem formulations for the evaluation of upper and lower bounds on the effect of progressive structural degradation in mechanical and civil engineering structures. In this study, degradation effect is measured by an increase in global structural compliance (flexibility). Thus the stated bounds are given simply by the maximum and minimum values, respectively, of the increase in the so-called compliance corresponding to a specified global interval of degradation. For simplicity, the major part of the exposition will be given for trussed structures, while analogues for continuum systems are described as well. Here especially the issue of existence of solutions is of interest. Developments leading to computational solution methods will be also described.

Vært: Martin Raussen

Torsdag den 27. november 1997 kl. 14 i lokale E3-109

Klaus Mølmer, Institute of Physics and Astronomy, University of Aarhus:
The Foundations of Quantum Theory - from Philosophy to Technology

Resume: Quantum theory has some really strange consequences which caused in particular Albert Einstein to be very sceptical with the theory. In a number of famous pardoxical *gedanken experiments* he set the stage for still on-going philosophical discussions on the foundations of the theory. These discussions paralleled the practical applications of the theory going from one triumph to the other: quantitative discrepancies between theory and observations have never been observed!

Using an absolute minimum of physics formalism in the seminar I shall present some of the more philosophical paradoxes and I shall describe how they have been made subject of investigation, e.g., in experiments carried out by Alain Aspect in 1980 and 1981.

Quantum physics is really a source of magic tricks and I shall present some mindboggling examples. The microscopic world is quantum mechanical, and we have already many technological applications of quantum mechanical effects, but also the more philosophically challenging quantum effects are now seriously considered for technological applications. Results accomplished so far and some current ideas within information processing will be described: quantum cryptography, quantum computing etc.

Vært: Lisbeth Fajstrup

Torsdag den 11. december 1997 kl. 14 i lokale E3-109

Katja Schladitz, pt Department of Mathematics, University of Western Australia, kommende post-doc på Afdeling for Matematik, Aalborg Universitet:
Estimation of the Intensity of Stationary Flat Processes

Resume: A k-flat process is a point process on the space of k-dimensional subspaces of R^d. Special cases are line ($k = 1$) and hyperplane processes ($k = d - 1$). The intensity of a stationary k-flat process is the mean total k-content of its flats per unit volume. Thus the natural way of estimating the intensity is to measure the k-content of the intersections of the flats of the process with a compact convex observation window.

For stationary isotropic Poisson line processes another unbiased estimator can be obtained by counting the intersection points of the lines with the boundary of the observation window. Baddeley and Cruz-Orive, and Ohser showed that this estimator has lower variance than the naive one.

This is astonishing in so far as this point count estimator only uses the (lower-dimensional) information provided by sections with the boundary of the observation window whereas the natural estimator measures the length of the line segments.

We explore the existence of similar estimators for more general classes of flat processes. On the one hand side we allow less information about the directional distribution, on the other hand we examine Cox, stationary ergodic and general stationary flat processes. This leads to the uniformly best unbiased estimator for the intensity of stationary Poisson k-flat processes with directional distribution from a given family and for some types of Cox flat processes. For stationary ergodic flat processes with directional distribution in a given family and general stationary flat processes with unknown directional distribution (all with a nondegeneracy property) our estimator turns out to be the uniformly best unbiased one from a restricted set of estimators.

Vært: Jesper Møller

NOVO NORDISK
Health Care JOB
29.09.97 10.10.97

Statistiker

Idet en af vore statistikere er blevet forfremmet, søger vi snarest en ny statistiker til besættelse af den ledige stilling. Statistical Dept., HC Quality Support, med 6 ansatte, herunder 1 erhvervsforsker, er et kompetencecenter i Health Care indenfor matematisk-statistik relateret til kvalitet og produktion. Afdelingen varetager især opgaver i forbindelse med design og implementering af statistisk processtyring, forsøgsplanlægning, stikprøveplaner og generelle optimeringsproblemer. Afdelingen fungerer som et team, hvor der lægges vægt på 'sharing of best practices'.

Arbejdsopgaver

- Varetagelse af matematisk-statistiske opgaver i Health Care i relation til kvalitet og produktion, herunder: Optimering, statistisk processtyring, kontrolkortmetoder, forsøgsplanlægning og stikprøveudtagning.
- Deltagelse i tværorganisatoriske projektgrupper fx i forbindelse med procesvalidering.
- Vejledning af Ph.D.- og eksamensprojektstuderende indenfor afdelingens fagområde.
- Deltagelse i planlægning, udvikling og afholdelse af afdelingens kurser i statistik for ansatte i Novo Nordisk.

Kvalifikationer

- Har en baggrund som civilingeniør eller cand. scient. gerne suppleret med en Ph.D. grad indenfor statistik.
- Har et godt kendskab til IT, herunder programpakker for statistik.
- Har gode samarbejdsevner og høj grad af fleksibilitet, men er samtidig istand til at arbejde selvstændigt og udvise initiativ.
- Behersker engelsk i skrift og tale.
- Har mindst 5 års relevant erhvervserfaring.

Du kan få nærmere oplysninger om stillingen ved henvendelse til Henrik Melgaard på telefon 4444 8888, lokal 39866.
Ansøgning mrk. "Statistiker.2178" sendes til Personaleafdelingen, Health Care, Krogshøjvej 41, 2880 Bagsværd.

Kalender 1997

(arrangementer annonceret i MEDDELELSER)

Dato	Med. nr.	Aktivitet
7/10	7	IMM-seminar: George F Corliss. Rigorous Global search: Industrial applications.
9/10	7	Seminar. Steen Markvorsen: Shadows of Curvature. (Aalborg).
10/10	6	IMM-seminar. Marianne Jessen: Statistisk analyse af fedtpletter.
16/10	7	Seminar. Thomas H. Scheike: Frailty models for retrospectively ascertained waitiny times. (Aalborg).
23/10	7	Tiltrædelsesforelæsning. Michael Sørensen: Statistiske problemer i forbindelse med stokastiske differentialligninger.
23/10	7	Seminar. Niels Væver Petersen: Statistisk, analyse af functional Maynetic Resonance billeder. (Aalborg).
24/10	6	IMM-seminar. Judith Jacobsen: Myg og malaria i tal.
27/10	7	Seminar i anvendt statistik. Juni Palmgren: Adjustment for noncompliance in randomized studies.
28/10	***7***	***Foredrag i selskabet. Juni Palmgren: Structural models for differential treatment action in randomized studies with noncompliane.***
3/11	7	Ph.D.-forelæsning. Henrik Wachmann: Uses of epidemic and statistical models in the surveillance fo infectious diseases.
6-7/11	7	Annual Meeting of the Finnish Statistical Society. Bayesian Hierarchical Models.
7/11	6	IMM-seminar. Helle Holst: Brystkræft.
13/11	7	Seminar. Peter McCullagh: Invariance and linear models. (Aalborg).
14/11	7	Doktorforsvar. Bent Jørgensen: The theory of despersion models.
18-19/11	***6***	***Todagesmøde, Aalborg***
20/11	7	Seminar. Martin Bendsøe: Bounds on degradation in structures. (Aalborg).
21/11	6	IMM-seminar. Helle Sommer: Konsulentopgaver for levnedsmiddelstyrelsen.
27/11	7	Seminar. Klaus Mølmer: The foundations of quantum theory - from philosophy to technology. (Aalborg).
5/12	6	IMM-seminar. Trine Kvist: Estimation af fiskebestande.
11/12	7	Seminar. Katja Schladitz: Estimation of the intensity of stationary flat processes. (Aalborg).

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(arrangementer annonceret i MEDDELELSER)

Dato	Med.nr.	Aktivitet
26-28/1 98	6	Symposium i Anvendt Statistik. Call for papers: **1. oktober.**
8-12/6 98	***6***	***17. Nordiske konference i matematisk statistik. Helsingør. Http://www.dsts.dk/nordisk.konf/***
24-28/8 98	6	COMPSTAT 98. Bristol UK. Fax: +44 1582 760981. E-mail: compstat-98@bristol.ac.uk. WWW: http://www.stats.bris.ac.uk/compstat/

Uddrag fra Aarhus Stiftsstidende. Søndag den 21. September 1997.

Docent, dr. scient. **Eva B. Vedel Jensen**, Institut for Matematiske Fag på Aarhus Universitet, får om få dage Lektor Marie Lønggaards Rejselegat på 110.000 kr.
Eva B. Vedel Jensen er en internationalt førende forsker indenfor stereologi. Stereologien beskæftiger sig med metoder til at opnå indsigt i tredimensionale strukturer navnlig indenfor lægevidenskab og biologi.
Hun er ansat på Afdeling for Teoretisk Statistik og Operationsanalyse på Institut for Matematiske Fag på Aarhus Universitet.
Vedel Jensen udnytter højt avancerede matematiske resultater til bl.a. et samarbejde med den lægevidenskabelige forsker professor. dr. med Hans Jørgen Gundersen. Forskningen her ført til meget vigtige fremskridt blandt andet indenfor cancerdiagnostik og hjerneforskning.