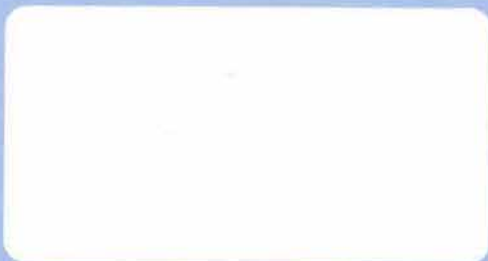


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MEDDELELSER

Dansk Selskab for Teoretisk Statistik

SEMINAR I MATEMATISK STATISTIK OG SANDSYNLIGHEDSREGNING

H.C. Ørsted Institute, Auditorium Hall 10

Valery T. Stefanov, University of Western Australia

Wednesday June 4th, 16.15 - 17.00:

"The distribution of the inter-site distance between pattern occurrences: algorithmic approach"

ABSTRACT:

This talk falls into an area called 'probability and statistics on words' whose main fields of application are computer science (analysis of string searching algorithms, data compression etc), molecular biology (DNA sequence analysis) and reliability theory. The words (patterns) are finite strings of symbols on a finite alphabet and they appear in texts generated by a relevant probability model. There is a neat, and well suited to computation, result on the generating function of the intersite distance between pattern occurrences if the strings are generated by i.i.d. trials.

In the Markov case the explicit result is not well suited to computation. Recently, that problem has been addressed by applying Markov chain embedding tools and developing a relevant algorithm. The computational effort of that approach is huge, especially if long patterns are considered. Also the structure of the relevant embedding Markov model depends on the pattern(s) of interest.

In this talk we will introduce a new approach for exact evaluation of the generating function of the intersite distance between pattern occurrences. Our approach covers in a unifying way patterns on strings generated by general discrete- and continuous-time models (embracing all models considered in the literature). In addition it provides a neat solution, in terms of simple recurrence relations, for the relevant generating function of any pattern. In other words, the recurrence relations depend on basic characteristics of the underlying model used to generate the strings, but does not depend on the pattern itself. Another attractive feature of our approach is that the associated computational effort is minimal.

Selskabets bestyrelse:

Formand: Per Bruun Brockhoff Institut for Matematik og Fysik KVL Thorvaldsensvej 40 1871 Frederiksberg C	Tlf: 3528 2361 Fax: 3528 2350 e-mail: pmb@kvl.dk
Kasserer: Helle Sørensen Institut for Matematik og Fysik KVL Thorvaldsensvej 40 1871 Frederiksberg C	Tlf: 3528 2386 Fax: 3528 2350 e-mail: helle@dina.kvl.dk
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Three positions at the Department of Informatics and Mathematical Modelling (IMM) at the Technical University of Denmark (DTU) are open from September 1st, 2003. Assistant, associate or full professor level depending on qualifications.

IMM carries out teaching and research within computer science and information processing - with emphasis on applications within the engineering and related sciences.

The Statistics Section is focused on applied statistics. Areas of special interest in relation to the positions are e.g. datamining, computer intensive methods, non-parametric methods, biostatistics, mathematical and industrial statistics, stochastic processes.

Application deadline: August 1st, 2003

Link: www.dtu.dk/job

SEMINAR I MATEMATISK STATISTIK OG SANDSYNLIGHEDSREGNING

H.C. Ørsted Institute, Auditorium Hall 10

Valery T. Stefanov, University of Western Australia

Wednesday June 4th, 16.15 - 17.00:

"The distribution of the inter-site distance between pattern occurrences: algorithmic approach"

ABSTRACT: Se forsiden.

PRELIMINARY COURSE ANNOUNCEMENT

Title: Practical Statistical Analysis of DNA Microarray Data

Venue: Kollekolle, Værløse, approx. 15km North of Copenhagen.

Time: Three full days (9:00-16:00), Sunday, October 26-- Tuesday, October 28, 2003

Teachers: Vince Carey (Biostatistics, Harvard), Sandrine Dudoit (Biostatistics, Berkeley), and Robert Gentleman (Biostatistics, Harvard)

Number of participants: approx. 45

Audience: Statisticians and experienced biologists

Format: Lectures and computer labs in an approximately 50/50 split.
Students are expected to bring a laptop.

Curriculum (tentative):

- Introduction to genome biology and basic lab techniques.
- Pre-processing of DNA microarray experiments.
- Experimental design and analysis.
- Multiple testing issues in DNA microarray experiments
- Cluster analysis and classification.

Software: The bioconductor suite from <http://www.bioconductor.org>

Organizers: Biostatistical Department, University of Copenhagen and the Medicon Valley Academy

Price: To be announced (initial estimate 3200 DKK with lunch, or 5000 DKK with 2 nights and 2 evening meals, excl. drinks)

Website: <http://www.biostat.ku.dk/~pd/bioC-2003>

Contact: Peter Dalgaard, Department of Biostatistics, University of Copenhagen, Blegdamsvej 3, DK-2200 Copenhagen N. (p.dalgaard@biostat.ku.dk).

Kalender 2003

(arrangementer annonceret i MEDDELELSER)

Dato	Med. nr.	Aktivitet
5/6	5/03	Seminar HCØ: Valery T. Stefanov (University of Western Australia): The distribution of the intersite distance between pattern occurrences: algorithmic approach.
11/6	2/03	Preconference course, Nordic Regional Meeting of the Biometric Society. Ultuna Campus, Uppsala
12-14/6	2/03	Nordic Regional Meeting of the Biometric Society. Ultuna Campus, Uppsala
15-19/6	6/02	Conference: Spruce VI, Department of Mathematical Statistics, Lund, Sweden
30/9 - 1/10	3/02	To-dages møde i DSTS, Panum Institutet, København
26/10 - 28/10	5/02	Kursus: Biostatistics, Panum Institutet, København: Practical Statistical Analysis of DNA Microarray Data

Husk! Redaktøren har ændret E-mail adresse: Brug red@dsts.dk

Deadlines i år 2003

Frist for indlevering af bidrag:

22. august
23. september
23. oktober
21. november

MEDDELELSER ndkommer

1. september
1. oktober
1. november
1. december

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Nyt om Navne

Pr. 1. juni 2003 er Allan Blemings ansat som statistiker hos Ferring. Allan forlader en stilling som statistiker, Clinical statistics, Novo Nordisk.