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3.3 Davenport

Schinzel Sequences

And Their

In combinatorics, a

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sequence is a

sequence of

symbols in which

the number of times

any two symbols

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may appear in  
alternation is  
limited. The  
maximum possible  
length of a  
Davenport – Schinzel  
sequence is  
bounded by the  
number of its  
distinct symbols  
multiplied by a  
small but  
nonconstant factor  
that depends on the

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number of

alternations that are allowed.

Davenport – Schinzel sequences were

first defined in

1965 by Harold

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analyze linear ...

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Davenport–Schinzel sequences are named after Harold Davenport and Andrzej Schinzel, who applied them to certain problems in the theory of differential equations. They are finite sequences of symbols from a given alphabet , constrained by

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forbidding pairs of symbols from appearing in alternation more than a given number of times (regardless of what other symbols might separate them).

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Davenport – Schinzel  
sequences,  
introduced by H.

Davenport and A.  
Schinzel in the  
1960s, are

interesting and  
powerful  
combinatorial  
structures that

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arise in the analysis and construction of the lower (or upper) envelope of collections of univariate functions, and therefore have applications in a variety of geometric problems that can be reduced to computing such an envelope.

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Sequence In  
combinatorics, a  
Davenport – Schinzel  
sequence is a  
sequence of  
symbols in which  
the number of times  
any two symbols  
may appear in  
alternation is

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limited. The maximum possible length of a Davenport – Schinzel sequence is bounded by the number of its distinct symbols multiplied by a small but nonconstant factor that depends on the number of alternations that are

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allowed.

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Davenport – Schinzel  
Sequences And  
Sequence

Davenport-Schinzel  
sequences are deep  
and beautiful,  
simple but subtle  
combinatorial  
structures arising in  
a wide variety of  
geometric  
constructions. The  
remarkable story of

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their analysis is told in this book by two of the primary developers of the theory. The material is technically demanding and the style correspondingly uncompromising.

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geometric ...

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sequences are

sequences that do

not contain

forbidden

alternating

subsequences of

certain length. They

are a powerful

combinatorial tool

applicable in

contexts which

involve the

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Calculation of the pointwise maximum or minimum of a collection of (univariate) continuous functions, and have thus many applications in computational geometry and related areas.

Davenport-Schinzel

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An  $(n,s)$

Davenport-Schinze

$T$  sequence, for

positive integers

$n$  and  $s$ , is a

sequence composed

of  $n$  symbols with

the properties that

no two adjacent

elements are equal,

and that it does not

contain, as a

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(possibly non-contiguous)

subsequence, any alternation  $a$

$\cdots b \cdots a$

$\cdots b \cdots$  of length  $s+2$

between two

distinct symbols

$a$  and  $b$ .

[PDF] Davenport-Schinzel sequences and their geometric

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...Davenport

An  $(n; s)$  Davenport-Schinzel sequence, for positive integers  $n$  and  $s$ , is a sequence composed of  $n$  symbols with the properties that no two adjacent elements are equal, and that it does not contain, as a (possibly non-contiguous)

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subsequence, any  
alternation  $a \Delta \Delta b$   
 $\Delta \Delta \Delta$   
 $a \Delta \Delta$   
 $\Delta b \Delta$   
 $\Delta \Delta$  of  
length  $s + 2$   
between two  
distinct symbols  $a$   
and  $b$ .

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Their ...

Applications of

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sequences arise in

areas as diverse as

robot motion

planning, computer

graphics and vision,

and pattern

matching. These

sequences exhibit

some surprising

properties that

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make them a  
fascinating subject  
for research in  
combinatorial  
analysis.

Applications

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sequences provide

a powerful

characterization of

the structure that

arises from the

lower or upper

envelope of a

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collection of functions. The lower envelope of five functions is depicted in Figure 6.42. Such envelopes arise in many problems throughout computational geometry, including many motion planning problems.



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### 6.5.2 Davenport-Schinzel Sequences

An  $(n, s)$

Davenport – Schinzel sequence, for positive integers  $n$  and  $s$ , is a sequence composed of  $n$  distinct symbols with the properties that no two adjacent elements are equal, and that it does not

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contain, as a  
(possibly non-  
contiguous)  
subsequence, any  
alternation

a b a b a b  
a b of

length  $s + 2$   
between two  
distinct symbols  $a$   
and  $b$  .

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It is known that  
such sequences  
have length at most  
 $n^{2 \cdot (n)} = O(1)$ , where  $\cdot$  is the  
inverse-Ackermann  
function and the  $O(1)$   
depends on  $\cdot$ .

We resolve a

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number of open problems on the extremal properties of generalized Davenport – Schinzel sequences.

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