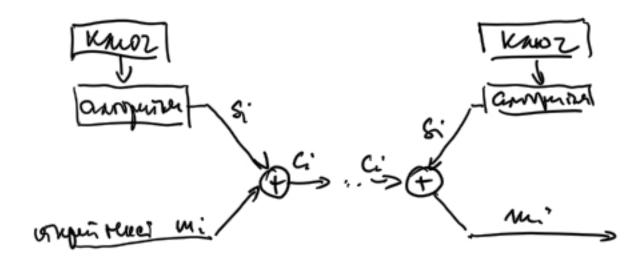
Mya creme



Grace venass:

- (Si) izo ga ngrunga naro cryrainta peginga

- ge neres tysak repensionpopeun

Me pogramigane como flourin

Monera respes mens ce menses ja pegunge hore mongo mongo especitio mone.

Def. · Kaybane, re (Si); o e representa, aus cryecteplea ecrectbers rucho m, ja hoers Sim = Si Hìzo.

· Hair-memoro execteurs The chorists Hepirane nepuse.

· Kerboche, re

(St, Stri) ··· Strk-1)

e Thore e gommune k, and

St. = St = Stri = = Strk-1 ± Strk

e More e gommune k

011... 10 - Trove or equipment

k

000...01 - Thore or types

· Abronoperagues us reprograng pepuga c nepusg p (unprinsien nepusg) vegurance bernamers

$$AC(h) = \frac{A-D}{P}$$
,

Wyero

A= open us orthogennere le pourkure us epus neprog My (Si) n (Si+k)

D= oppto 18 the colonogeomsta
by parteure 112 equit neprios

My (Si) n (Sin)

Az | O \(\) i \(\) Si = Sitk \(\)

D = | { 0 = i < p | Si + Sitk} |

two p/h deagoles abroneperaged

hw p/h apprendence is e 1.

hw p/h apprendence observed to the constitution of the apprendence of of the appre

Thines

(a) 11100001110000.__.

 $\Delta C(\Lambda)$ $\frac{1110000}{1100001}$ A=5D=2 $AC(1)=\frac{3}{7}$

AC(2) 1110000 A=3 D=4 AC(2)=-1

AC(3)=-辛,AC(5)=-辛,AC(5)=-辛,AC(6)=辛

(δ) 1101000 1101000 ---.

AC(1) 1101000 A=3 D=4 AC(1)=-1

AC(2) 1101000 A=3D=Y $A(2)=-\frac{1}{7}$

AC(3) = AC(4) = AC(5) = AC(6)=-=

ustratepagobara atronoperages e

Mocrynam He Powers

- (G1) Djets Ha Hymne n'equitagnée le president men ga ce pagentaba e 1.
- (GL) Topolouteir or stoublete le parreire us emit reproj ge e grantinez l; egus ralia e grantinez l; egus ralia et stoublete c grantinez 3 u T. H. (pourgero nece cluicra). They nobere-monohurera or oronobere c jagens grantinez ca strube or lym muscolineza.
 - (G3) Mbrit openobata abir nopenengue AC(k), p x k, e nostcrania.

Def. Pepuya, yeobrushopshangs (G1-G3) represente nceles crysouther, PN-peyuye (pseudo-noise seguence).

Teopena Huna (Si) e

PN-pique Trales ya berno

chequos p

ke, noero re ce genu re p:

Ac(k) = \(\begin{array}{c} - \frac{1}{p-1} & p-rerro

- \frac{1}{p} & p-rerro

- \fr

Dove.

So S1 S2 -- Sp-1 S1 S2 S3 -- So S2 S3 S4 -- S1 S1 S0 S1 -- Sp-2 Oform open inbragernes uninge opon reerbonagernes na peg o c benun ou octoberate pegole.

Or egue se Hyrebus u uni je e gygr py Me rucus e p.AC(k) A-D=p.AC(k)

=> cymara e p(p-1) AC(b)

От друга страна

(a) p-rerto brever crost forals $\left(\frac{f}{2}-1\right) - \frac{f}{2} = -1$

=> p(p-1) AC(k) = p.(-1) $AC(k) = -\frac{1}{p-1}$

(8) p- Herento

30 번 cronta: 턴 - 턴 = 0 30 번 cronta: 턴 - 턴 = -2

(or kyumoysfeur ecterto)

- (CI) rosser negnog
 - (Cd) recon ge resepupare
- (C3) yerriruber 18 kymiterenz (pramero 12 ornocuterno morne 200 2 uno robota pegnys He nozbotske mepaparero 48 ystara pepnys)

LFSR

n- grantites us periorga (So, Si... Sh.i) crossime les periorga

f: 10,13 -> 10,13 oynebs opytherens

Ano fe museurs-ruseer ferrange

$$|S_{i}(t+1) = S_{i+1}(t)$$
 $i=0,...,n-2$
 $|S_{n-1}(t+1) = f(S_{o}(t),...,S_{n-1}(t))$

f (20,21- 24-1) = Coxo+Gx1+--1 C4-126-1 C1660,13 huseismie perucion moranizat pepupu, urrio ce miseism pengreurm pepupu (S.)

Sk+n= CoSk+C18k4+...+Cn-1 Sk+n-1

Si = S.(t=i)

10.0.0. unseen je jeunneli Nes ypobseence

CoSk+C, Sun+--+Cn-1 Sun-+ G. Sken=0

Me crusaue, re co=1, Cn-1

No co so origare pegniga of no- ure periodo.

$$S^{(i)} = (S_i, S_{44}, \dots S_{4n-1}) - bentof HS$$
Orchohnero b
1-The moment

$$\frac{S^{(k+1)}}{S^{(k+1)}} = \frac{(k+1)}{C_0 S^{(k+1)}} + \frac{(k+1)}{C_0 S^{(k+1)}} = \frac{(k+1)}{C_0 S^{(k+1)}}$$

xapeureprotures resumos us pegunga (S.), jega gens c roputo so fenggensmo ypobseerne. Def D(f) - {(Si) | Si gobresbythers[*) }

(*) Co5k+ & Sken+--- Cn-15ken-+ Cn5ken = 0

Thu. II (f) e aureir 10 benrépts mocroarette e pequeptocs n.

Dry.

Da ee nyrbepu, re aus (si) u(ti)
ygrbrertopsbaz (**), ro n
(si+ti) ygobrertopsba (*).

bague: feguque c Haronin

(00.-10..0)

(=0,1,...,n.1

$$f(x) = c_{n}x^{n} + c_{n-1}x^{n-1} + \cdots + c_{1}x + c_{0}$$

$$f^{*}(x) = x^{n}f(\frac{1}{x}) = c_{0}x^{n} + c_{1}x^{n-1} + c_{n+1} + c_{n}$$

$$deg f - deg f^{*} = n$$

$$(s_{i}) \in \Omega L(f) \implies S(x) \in \Omega (f)$$

$$S(x) = S_{0} + s_{1}x + s_{2}x^{2} + \cdots = \sum_{i \geq 0} s_{i}x^{i}$$

$$(3e apopulations e perfec - but representations)$$

Thus Henry (si) & D(f), kyers $f(x) = C_n x^n + C_{n-1} x^{n-1} + ... + C_0$ Torable

$$S(x) = \frac{t(x)}{f^{*}(x)},$$
where
$$t(x) = \sum_{j=0}^{N-1} \left(\sum_{l=0}^{j} c_{n,l} s_{j-l} \right) x^{j}$$

B record de t(x) < n

$$= \sum_{j=0}^{\infty} \left(\sum_{l=0}^{\text{Min}(j,n)} S_{j-8}^{-} C_{n-c} \right) \times j$$

$$= \sum_{j=0}^{n-1} \left(\sum_{i=0}^{j} S_{j-i} C_{n-i} \right) x^{j} + \sum_{j=0}^{\infty} \left(\sum_{i=0}^{n-1} S_{i-i} C_{i-i} \right) x^{j}$$

$$= \sum_{j=0}^{n-1} \left(\sum_{i=0}^{j} S_{i-i} C_{n-i} \right) x^{j} + \sum_{j=0}^{\infty} \left(\sum_{i=0}^{n-1} S_{i-i} C_{n-i} \right) x^{j}$$

$$\mathcal{L}(f) = \left\{ \frac{\hat{l}(x)}{f^*(x)} \right\} \text{ deg } z < n \right\}$$

News (S) & Q(f), a (ti) & Q(g). Proble (s.+ti) & Dh ryers h= lem(fg) = [fg] (Hok)

Ann. $S(x) = \frac{df(x)}{f^*(x)}$ deg d = cdeg f $T(x) = \frac{f(x)}{g^*(x)}$ deg g = cdeg g

h(x)= n(x).f(x)= n(x).g(x)

 $S(x) + T(x) = \frac{d(x)}{f^{*}(x)} + \frac{(3(x))}{g^{*}(x)}$ $= d(x)g^{*}(x) + f(x)f^{*}(x)$ $= f(x)g^{*}(x)$ $= f(x)g^{*}(x)$

Upworkbere, re h'' = u''f'' = v''g'' . deg d(x) u'(x) = deg h deg f(x) v'(x) = deg h $S(x) + T(x) \in \Omega(h)$

M

At f(x) EF2[0], f(0) = 1 cryectlyly

ear. rucho m: f(x) / x-1=x+1

Herr-unword records in: ordeft

B. Mrs f e repagnisment. To

ora f/2-1

this ord f = 2-1, to fee require

republic or for the republic republic

Neural. Juna dep f=n n ord f = m Hung (Si) & D(f). Trocks repropti p Ha (Si) jesu m. $\frac{\partial \partial u}{\partial x}$. $\frac{\partial \partial u}{\partial y}$: $\frac{\partial \partial u}{\partial y} = \frac{\partial u}{\partial x} + 1$ deg g(x) = m-n f*(x). g*(xx) = (x"+1) = x"+1 I tow, dept < n $S(\infty) = \frac{\tau(\infty)}{f^*(\infty)} = \frac{\tau(\infty)}{2^m+1}$ = $t(x) \int_{0}^{\infty} (2) \left(1 + x^{m} + x^{2m} + \cdots\right)$ $\frac{1}{1+x^{m}} = 1+x^{m}+x^{2m}+x^{3m}+---$ (1+x)(1+x+x+...) = 1+ x + 22m+...

deg tg < m

(a) y (a) + x (x) y (a) + 2 (a) y (a) >> S(21) una nepuse cersos (me upons us neproge).

Jeun 3. Frena deg f=n, ord f=m u f. vepognomme. Aus (Si) E D(f), To Tagu peguys c neprop pober 48 m.

Ar. Heur pe neguogos 48 (Ii) Dirju guser, re p/m

$$S(x) = \frac{u(x)}{1+x^{p}}, \text{ deg } u < p$$

$$= u(x) + x^{p}u(x) + x^{q}u(x) + --$$

$$S(x) = \frac{t(x)}{f^{*}(x)}, \text{ deg } t < n$$

$$(1+x^{p}) t(x) = u(x) f^{*}(x)$$

$$(1+x^{p}) t^{*}(x) = u^{*}(x) f^{*}(x)$$

$$(1+x^{p}) t^{*}(x) = u^{*}(x) f^{*}(x)$$

$$\text{Ho } f \in \text{ Hypegrounds } m$$

$$\text{deg } t^{*} < \text{deg } f = n$$

$$\Rightarrow f / 1 + x^{p}$$

$$\Rightarrow \text{ ord } f = m / p$$

$$\Rightarrow m = p$$

Mena 4. Henre dep for = n, Hena (Si) & D(f) n Hena (Si) e PN-peques e reprof2-1. Torales of e sepagnourule. stru. Heur f=f,fz depfi=n;>0 1 & D(fi) => nepuograno 1 gem 2"-1 1 fi fi ∈ Ω(f) → fi e e neques 2-1 => 2^m-1 /2^m-1 => 1= m -> f=f1, nyssuboperue (degfr=0).

The Penya noryrette of

LFSR c repensequicively

nountred f (os und pen your

(*) exy. non. f)

una nepus 2-1 trals

n callo virals, woreto

f e upulustibles.

Opost the surreinare pericoper, leviso responses peques e leviso responses 2"-1 e $\frac{(2'-1)}{2}$.

Mocigneenre 18 Ponout

G1. Their-rebress out the fessio Cresoshi (been terryach benessp) regunga H2 rysogs => #egunnyn=2"; #rynn=d"-1

Gd: Ze besno k=B... n-2:

Crycerlylat 2^{n-k-l} vresosmis juinso

Heir-reli k+2 koopfinterr

er or hype 01--10 um 10:-01

k norobritary ca oronobe as

mpu a norobritary or oronobe

or epinnique)

01----- ce norbeles 10240 beginner

11---11 c Hecrepure 11---10 => Hour Trap equit sion of eymouse or eymonegor of francourse or

Marionerio:

une vous equi store à type c grammer n-1

usue save os type c g-42 n

(Gd) ce regulariste 6 ypoballoquitens

(G3) (Si) = 22(f) (Sim) = 22(f) (Si+Sim) = 22(f)

They have b (si) h (bitk) =

They have b (si) t (bitk) =

They headnagens b (si) t (bitk) =

They epurhage to (di + bitke) $AC(h) = \frac{(J-1)-d}{2^{m}-1} = -\frac{1}{2^{m}-1}$

Kjuntorfopenn nguculouhs.

(C1) trepnog 2-1-1-enne je dye neupobers unono misu.

(c2) llybrupegno mocos humaluluto

(C3) NB! Zherneso H In Soles mocneyobarents Mich goles ongester on Ci 020,1... n-1.

Sk Sken -- Sken | Co | Sken |

Aro ce replection: Se, Sun, --- Sunza-1

belin nonocrejoberteum (zong)?)

=> lumble fe beliefeet Co,-. Cu-1 egisthemo.

AB both G(t) br.(t)

an(t)

an(t)

an(t)

- Bother Crysaii A ongles agree & B - Toza agree wrogs crookeners works & B.

Jump

1) Dhe LFSR a gion conferes m m n c representation topowers comme tommeden u c sergrela berasin consome 2) legotypene h pegenrum en. 25 d0,1,... m. 13 n.m.

nogrensfell 0\le \(\ilde{l}_1 \cdot \bar{l}_2 \le \in \in \mathref{m-1}

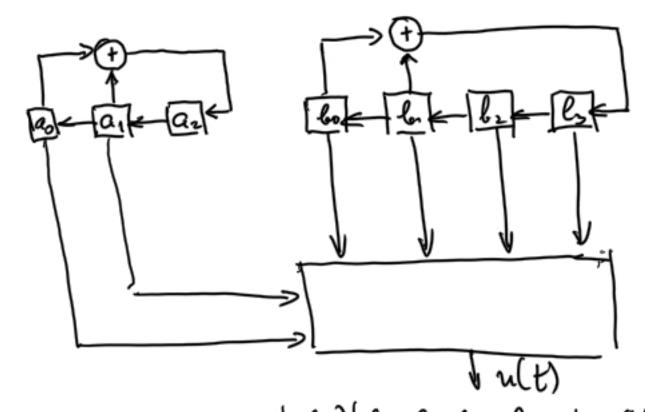
 $(a_{i_1}(t), \dots a_{i_k}(t)) \rightarrow N(t) = \sum_{j=1}^{k} a_{i_j}(t)^{j-1}$

3) T- meuntus

T: 20,1, 2-13 -> 20,1, 1-13

4) $\frac{U_{X} + \sigma_{Y}}{u(t)} = b (t)$ t(u(t))

Thurse $m=3, n=4, h=2, i=0, i_2=1$ T(0)=3, T(1)=2, T(2)=0, T(3)=1 $N=a_0+2a_1$



t1	ao	۵,	az	NHO	T(N)	606,62 63 /2	u(t
0	1	0	0	7	۷	1000	0
1	0	0	1	0	3	0000	1
2	0	4	0	2		0010	0
	1	0	1			0 1 0 0	V
Ý	1	4		2	Ø	1001	1
	_	۸			1		Ø
	1 :					0 1 0	
6	ነ /			3			
7	.) 1	0	0	1	13	1100	Ŋ

They has (m,n)=1 so uyanneucovera pepuya u(t) a enequoe $(2^m-1)(2^m-1)$.