Evolutionary	Finance	C	беск. шаган	arensol	(ugen)	Cemmap &	 >
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1 Moyen6

· AKTUBU (short-lived) X, ZX, =1 4.0.p.

• Arenon (corporation) uspa \mathcal{U}_t no (S $\mathcal{B}(S)$) $S = ES \in \mathbb{R}^N_+ : \Sigma_S^n = 1$

· Kanutai:

$$\mathcal{H}_{t+1}(A) = \sum_{n} \frac{\int_{S}^{n} \mathcal{H}_{t}(ds)}{\int_{S}^{n} \mathcal{H}_{t}(ds)} \times_{t+1}^{n} \quad \text{ige } A \in \mathcal{B}(S)$$

Ease y ph ecto mornours to

$$f_{t+1}(s) = \sum_{n} \frac{s^n f_t(s)}{\sum_{s} f_t(s) ds} \times \frac{n}{t+1}$$

2) NoTun gonazara

$$\mu_{t} \stackrel{\mathcal{M}}{\Rightarrow} S_{s_{t}} = N_{t} N_{t}$$
, $S_{t} = \mu_{t} \rho_{t} \Omega_{t} \Omega_{t}$

востаточно доказить

$$\mu_{\star} \xrightarrow{W_{\star}} S_{\star} \qquad W_{\star} - \mu_{\bullet}$$
 грима Касеритечна

3) Merpuna Bucopurrenta ? (p,j-nepu na S; 1x-y1= \(\sum_{n}^{n}-y^{n}\))

$$W_{1}(\mu, j) = \inf \left\{ |x-y| \int dx dy \right\} \quad \text{rge } \Gamma(\mu, j) = \{y : \int y(dx, A) = j(A) \\ \int y(A, y) dy = \mu(A)$$

· Mours leurse upequalreure:

· les gumperium up (supp u= {x, y)

$$W_1(\mu, p) = \sum_{s} |x - x_s| p(dx)$$

Date 2023 . 05 . 04

(9)	Cxoa	นมเมษาย	μ_{\star}	в	Wi
			7 6		,

$$W_{1}(\mu_{t+1}, S_{*}) = \sum_{S} |S-S_{*}| \mu_{t+1}(ds) = \sum_{S} |S-S_{*}| f_{t+1}(s) ds$$

$$= \sum_{S} |S-S_{*}| \sum_{n} \frac{s^{n} f_{t}(s)}{S u^{n} f_{t}(u) du} \times_{t+1}^{n} ds \xrightarrow{?} 0 \quad n.u.$$

le nonernis dan ero gonazulurs.

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5, - bzhem crparame box areasol

$$\frac{\overline{S}i}{S_{t+1}} = \left\{ S^{i} \underbrace{S^{i} \underbrace{M_{k}(ds)}_{S_{k+1}} X^{n}_{k+1}}_{S_{k}} - \underbrace{S^{i} \underbrace{S^{i} \underbrace{M_{k}(ds)}_{S_{k}} X^{n}_{k+1}}_{S_{k}}}_{S_{k}} - \underbrace{S^{i} \underbrace{S^{i} \underbrace{M_{k}(ds)}_{S_{k}} X^{n}_{k+1}}}_{S_{k}} - \underbrace{S^{i} \underbrace{M_{k}(ds)}$$