Вубинин А. О. 480-4075-17. 11,25 (N25) OSynemie moro cuentam ceteu nomoro paempoerparenur. Алгорати обрсетного роспространеш oundreg - odugar exema. Usermoe spaburo guppeperesupobarur u 190 part 6 acres back propagation. Canoctollemus Chroning ranchopeiler o Chyun u laroparua Lles gri munu-Muzelyen onusker. e o Osugaes enema osymmus e magallaciment puriporeren ceres 1. Molle Toro, Kak Mol Casplana copyrogpy MC, meosxogenio ee osyuland, T. P. Olyuse colours. 16950P BRAYEMINE CELLANTUMC-MII 6006 le Cucineria Ceru

D'in gagally lear dygem pemcerg Plantizya sporece osyulucua (juvenen. Cyto cocrour 6 algysource: Ди сега зададии мач. 3 Marienna Eccel W Coswine подажине равноперия рас-Megeneration rece (0, 17). Hogagum ma Boxog MC movo-Topbui masop Curacaeot $X^* = (X_1, \dots, X_N^*).$ runpour parancé no ceru, Tror mases reprengaes Coixoguer Madop 3 receneran Centepa & 3ach.

(95 ot X* u ot W. 2. Tiyert gu garrogo X ustecoreo, raccina germas our Mabineror (Mencicuos) 340 min

y* borroguero Cecrepa y. 3) (шиению эть диниение преду · leverco yucovercena 160 cost bererbyrengen ucorp Businger y Rue Menerge Mancreage y cery, • Истераний понучания для Эсечного X nou putroupoleaumon W, ono sia gamero X* megaracher codeir ouwoky, le eqroisy rola pyrilleller or napullipo-6 W E(W)=11y*-y(x*, W) apa p= <X*,y*> - OS y rarecycii nacello, a Masep us Np nap - orguerrequi магор. Dyrugue omusica u.S. orpezeleurce, ionic ma pEP, Tax u
na P = & P:3

E = E(p, W); E=E(P, W). @ 3agara osquerus cera-Это зазача минизации Функении ошибки по капраи. Caemon Rependerpenn l'Ellan a allegeneralin) W: E(W*) = min & (p, W) gue 009 enbrus princepol. E(W*)= min E(P, W) que Engras leinous obcerns Обучином вго мабора в зелом · Aleraparu osparuero decuporpadana parcies Ru Disoparu backpropagation u ero pagnobagacora - ococolo Ogacoro les Mauscelle Meiro Mullerallors nogræget a peniences zazara osquerus masoroaigimusi ceren

Oborganoire marie: 1. Becau ceon W spice Bauba terle mésoubline mélétéelleurel 3 Manueras.

2. Basyraeras auepegiroù

esyraereazur munep Ph =

= \(\times \ti neasopa
P=5px3= {< Xx, yx > K=3, ..., Np3, 3. Buraculer la blissag Ceru y (xx, W), orberaneeseen Brog. Mounty Centrepy Xx 4 Terryuse 4. Ma ocnobe menacinose yx ger pu le Bournaiennorc ma npegoigguem marco leuxoga y (Xx, W) bluncagera ourske Ceru En (.) 319

En (x) , W) = 11 yx - y(xx, W) 5. Mance 2, 3 4 4 no-brops. 1000 gra Been Esquero yeer njunepel pu, k= 1,..., Np, Mu Ogrem a ven me zram. heun W; sin Np mener 6 . mayecle osyllacus ceru. 6. Burucillera Chukaprus Olluska CCTU gia T- i snowe $\mathcal{E}^{(r)} = \sum_{k=1}^{\infty} \mathcal{E}_k$ 7. Beca ceru W noppenings.
HOTCH TUNE, UCTOSU GUENGUUTE
Decensey E (4) (.) 8. Maru 10 2 no 7 nobre parose go rex nop, noira me Dyger Conouseeuxo y hicker

Treggy recure. There mor Wr+1 = Wr - 7 DE Koppenrupolera Berolo, 1 - Tem osynemen 10 09 40 04 COTEL OSYMERCEL Objequerle e allacut 30 60allen glussa ypakung. 13 ayuar lexeoroluogneis caru Zeisara y aut m rettra. Del Canog 4090 alos Moslin heer Dia lapuron cual ba 109 pyrany. I postema locrens & ven, no garkon 30 Menogregorbluxede Conullieno & Generani omuska un Euxogas mei pouch me 300 yrue Maga gecero enpesenava

Duewory me Cerogar ORPHITIENS acel 10 Deed Sicu ku mes. Euro Meser Pacoposplerconce vecezag Maga guero opentuebreo Christino 3 reasons Excrolors spourbogran pour ourskis Ceru, Bull BP coercur 6 recu, woder you beguyaleran paguent de 10W yern er menurung peiguap-12000 $w_{d}^{m}(k+1) = w_{i,d}^{m}(k) - \lambda \frac{\partial \mathcal{E}}{\partial w_{i,d}^{m}}$ $b_{i}^{m}(R+1) = b_{i}^{m}(R) - \lambda \frac{\partial E}{\partial b_{i}^{m}}$ • Vyennece spælenec Ciourag ecto yegerale ocer Raunogenues orospanami THOUNGORPPING CLOSING D-14

Mois no mane myrensomes en 1910 1360 lelacoy 44 monthosa. 37078 Of regularion no religible ulauren Replicarineis - Malbino Bennical gago palaen y chan dy - dy dy C naux 19610 apabuse Communité 28/3W W" (K+1)= W"(K) - 28 6 4 - 57 6 m (K+1) = 6 m(K) - d 8 m

Conocrablerene LMS u auro Rauropeinnero organ. Aliquia BP 6 ucrogada Equaciere obselear reconsum-3 againer Calulo Maucroplina eryan = SPBP (Steppest Descent Alegnion SDBP , setter you seome span yo but was osodyerae arreputua LMS. DA xoppeux enpublier 9 zeegwen of julguen groccioimen ceru, Reage. p. aunska « Korgrani mueer esurciblemen Мененци. Одчано функция Ourismu murorobleinea cerei lleretes unoro Dicolmallaci. $W^{2}(N+1) = W^{2}(N) - \lambda \delta^{2}(y^{0})^{T} =$ = W1(4)+22 exT

@ 6\$ (K+1)=6\$ (K) - 285 = 6 1(K) - 900 6 recenación cerroques 145. Taura orpregar BP Monre encour o ososa erecar aurqueruc L45.