- OBR iturtion
- o Relation to your method + similtaneous iteratur

Global nethods: For approximating Schor Factorization + entire spectrum.

QR olassimi

A, = QoAQo -> QoAQo is Nondador reductor to upper-Usanby Rom.

Aldrew

For ==1,7, ...

& Factor As - Q; R;

Det Ain = Riai

ومح

As to upper D matrix with eigendure on diegonal.

Nodia Rr= On Ar

Am = By Ra Qx

= Oi Anan

= (Q1 -- Q1) BA, Q, -- Qn
(Qn) KAY

MAGE TA

= (Q1 - Q1) 90 A Q0 Q1 - - Q2

is A my is unibody sinder to A.

Considerer 20 14/5/79/5--- 5/14/

than the gim stodiagonal ortuging in Aq converges

to zeo at ruk

1 April X

GBE-Za some sure by relety the OR We can undodad confugere in bother to the gold mithet. Do Cox. And Suppose (for simplicity) A is at upper those APPLATAGEN CAR Hordin Sims Am = (Q1 -- Q1) A (Q1 -- Q1). Next, where (G, -- GL)(RL -- R.) = (Q, ... QM) OLBA (BM-.. R.) A BARA: AR = (Q1 - . . Q A - .) Am (R M - . . R ,) 4x = (Qan -- Q1) A (Q1 -- Qan) = A(Q1 ... Q2m) (R2 ... R1) 4 GANRAI - Ami 1 An = (Que -- Q1) A (Q1 - Q2-2) = A (G. ... Gare) Am (Rare -. B.) · A' (Q. ... Que) (Ruc _ Ri) = AK : (Q. - Q.) (R... R.) = A¹, h^m jour & A. Qx Kx = Ax

to sustness) or thought stretus: For support, spee A is some 19: ON M:CJ bother was find The wax

for L=1, 1,.

W = AMM

Kr= 12/1100

ene

are- 25

when subst the your nested set IT	څه = کو ود ک	•
For L=1,2, Wa=A\hat{\text{\tin}\text{\texi}\text{\text{\text{\text{\text{\text{\texi}\text{\tex{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te		
4.8		
We are roming a Poler it voten on each step.	multiple vectors,	orthogo
Il Qo=In:		

nolizus a)

Similtonean furton:

For 1=1,5-

Wr = Agm

QnRn= Wn

AL= QLAGA

This let go! the its edum of Qui go! I everly asser with his

Relation to QR iteratur:

Similarens and AR : tentions server : defend sugarous) dend by the QR Pacto: Febru of the LM power of A.

Brown Shower abus: For aR: (a, --- a)(RA...R.) = A*

Am = On A Qx

Smiltons stratos, show QARA = AA, RA = RARA, R, (60)

Bore ship (1=0) BANGAR I = A° = B° B° (B° = I, the OB) ossome Qo=I for simil.

for simultanes, AL = QL Rx.

A' = AA' = AQNIRM = WARNI = QRRARM = QARA

0° MAR A': ÂNRA = BARA Siml. QR

Ana: An=QLAQL=QLAQL

= D diagonalize of Az we the Rusleyh gootule of A com to the For Vector.

Comparing the OR stocken to the simultanes stockers

OR (10 she):

A - A

for helyth

' And = QaRa (Factor)

An = Ra Qu (meltodo)

Qx = Q1...Qx

Similtones.

~ J

For L= 55, ...

(ballon) 1-ABA = W

W = GARA (m Factor)

AL ZXAGR

Both absorthme compile QR Rectorizations of Ar los At = QARA, RA-RARA, -- R.

ma An= QrAQr

"Single care" A :s real + sommetime, or single eigentures

MA TOWN WHITE WAS TOO TO

As is as Que (855) -s it eigenveter of A (orthag of pour method)

Arlisis) = (Galsis) A (Galsis) is the Radash god that sime l.s.

whom to y?

itis: An(isis) = Bullosis A (Bullosis) so by orthography of commenting

= 5 IP A : s norsyn (non-Homital), and has nonsymple ouchs, the sitety is more comparable.