

JYScãÑÑ s ys-VÑÓ yÓ ÓÑÑ SéÑÑ Óyúáú 1#ä

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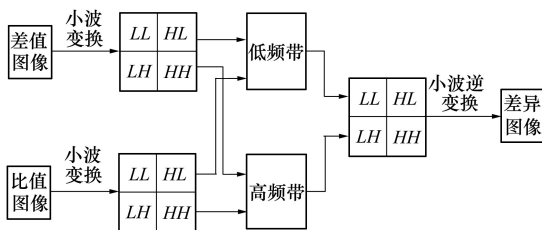
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$$w_{j_A}^D \%_{\text{so}} y = \begin{cases} \beta R_{j_{AB}} \%_{\text{so}} y o \beta T \\ ! " " T j R_{j_{AB}} \%_{\text{so}} y o < \beta T \%_{\text{so}} \\ ! " R_{j_{AB}} \%_{\text{so}} y o < \beta T \end{cases}$$

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Äx_k - v_i Ä⁰ =•.g 0Y_i W5‡1" Z ð ; 0Y_k Wd Y xK!
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$$d_{ik}^{N_k} = \textcircled{R} w_l \dot{A}x_l - v_i \dot{A} + \dot{A}x_k - v_i \dot{A} \%o o$$

$$w_l = \beta - \frac{\beta}{0} \left(\frac{d_{kl}^0}{\textcircled{R} d_{kl}^0} + \frac{s_{kl}}{\textcircled{R} s_{kl}} \right) \%o \beta o$$

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$$\text{œœœœœœœœ}_i^N = \frac{\textcircled{R} \%o_{ik}^N \sigma^m x_k}{\textcircled{R} u_{ik}^N} \%o o$$

$$u_{ik}^N = \frac{\textcircled{R} \left(\frac{\dot{A}x_k - v_i \dot{A} + \textcircled{R} w_l \dot{A}x_l - v_i \dot{A}}{\textcircled{R} d_{kl}^0} \right)}{\textcircled{R} \left(\frac{\dot{A}x_k - v_j \dot{A} + \textcircled{R} w_l \dot{A}x_l - v_i \dot{A}}{\textcircled{R} d_{kl}^0} \right)} \%o o$$

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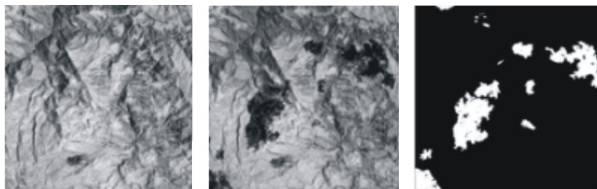
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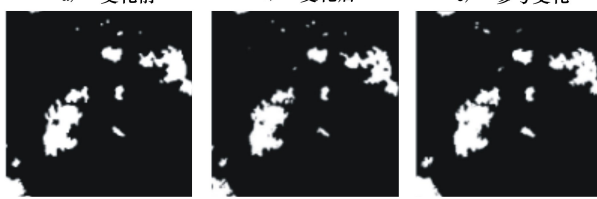
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a) 变化前 b) 变化后 c) 参考变化



d) 文献[10]方法 e) 文献[11]方法 f) 本文方法

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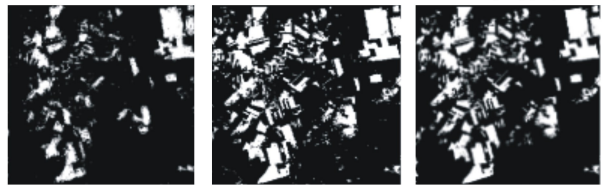
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a) 变化前 b) 变化后 c) 参考变化



d) 文献[10]方法 e) 文献[11]方法 f) 本文方法

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 èü f ü w qz k .ÖŽöüü6 üw qz ÷U i ÷z U" 0! B" x %œâ B @K B %œ d= o
 B: Öi •z k @z k4ü" ü Uq ü ÷k"; dUk ÷k w k" wUŽ dUk Ö wüw ĩ ö k ø"] •z ü U w Uq X Uq •ü •Uq •] è => .ÖŽ
 qz w qz U zU .•üq U •! i k zU êøù ÷k q U k êøù ÷k Uq ê U w qz • ü k z ÷z" 0! B" %œâ B K B !
 B: Ö C Ž' » + ü <° 5 1 f E !a Kón , ±±E' L + ü C í "x ÖÖŽ-¶ â>-¶ *b } .p - T " " 0! B
 ; dU=ÄüŽ dUk Ö wüw ĩ ÷z •] •w i ĩ ÷k q U k >U > •z q U k èü ÷z Uq q qøù > Ä ü i w X w i > ÖÖŽi ÷Uq" i ÷k
 Uq ĩ ÷z ø ÷z" 0! B %œ d= o
 B: Ö Ö _ Ö" >d] ÷ i" X U k U k è Žö ĩ 6!! üw i i üq qø w / E ü w q X U d ÷z .ÖŽ64q w i f w] ÷z ö q qz U k Uq qz w qz U zU
 .•üq U" 0! B" x %œâ B K B !@K! B
 B: Ö F L\$ "E ' Ž' » L < 8 F ô d •z w ü q w • ±±7 E/ Á + ü <° 5 0 Ä" .ÖŽ-D G T " " Ò" 0! " 0œœâ0" "K"
 Hü. Â Æ= Ä=ü ý ü Žö q q f ÷k ¶ i %¶ •z ü & U q > •z w ü q w d U !•q o d •ø f w öü d = ÷z k 6!! üw i q U k èü ÷z .ÖŽ
 .•üq U •! ¶ •ø w qz ê • f w ü d z ÷U ĩ ÷z ø ÷z" 0! " 0œœâ0" "K" %œ d= o
 B: Ö H •z k X H" ; ø ü ; P" X U . ." dUk Ö wüw ĩ ÷z i f z w w è ö q w qz • U Uq q U k >U > •z ü U wèü ÷z Uq q qøù >
 èü f ü w qz k .ÖŽç66 d U •z q U k êøù " 0! B" 0B %œâ 0B x B K B B
 B: Ö Hd U = & • " H z f H" ö & ! U w d ö Žö ••&ü w Ä=ü U Ö U w Uq X] & ø d = q qz i •q U k z >U > è X ö k ø"] !•ø ¶ = f q U k
 i k j z w k z Öœ d B w d qz w qz U zU •] qü w qz k z z qz k •z! ø zù" 0! B â K
 B: Ö i d U ê" i d = ü" @ ê" wUŽ ¶ •ü ö q qø U d w ĩ üq ð= > dUk Ö wüw ĩ >U > •z U ••&ü w i] ÷k ü q ð= > è X ü K
 w qz k ö k ø"] .ÖŽ •] •w i ĩ ÷k" 0! B " %œâ 0 x
 B: Ö Ä ü i ÷z @ U k " _ü Uq _ü Uq" ; d z k i ÷z k w Ž .•z w Ö=ü w qz U f Ä U ÷z k !•ø X ü w q ü w d U k Ö wüw ĩ .ÖŽç66 d U •z
 f & qz w i" 0! B @ x %œâ x K @

÷ J9¥Vā μ āYāP¥s ¥ Ū Vs—YJB ' 9çā• s¥ μ çp-āYā é 9aā āY
 ô—9¥çs—Bç 9¥• Yā VJ s—Jss• Pé e ÷ ,9 ā9¥ç

ü Uq ĩ è z k q z k" ü Uq ü ÷k" H U ÷k" d ĩ ü = Æ= Ä= @z k4 z U
 %ü d •• •! qz i •q U k z z k z qz k" d U k q U qz ĩ ÷z ø ÷z" i ÷Uq @K! x" d= L b

Ü çY-9Pā ö ĩ U k ø"] •z Ö=ü q w ü U w w d U !•q %Öü o Uq ĩ ÷k d & ø d •• è X = qø qø > w > w ü w
 ü d U k Uq U !•ø ø] •w ĩ ÷k ÷ U k Ž è q w w ü & w U w ĩ Uq d U k ÷ U k Uq •& w U q & f w ü ü & w U w ĩ Uq
 d U k] w d i ø w l w • ø k = w q > ø] •w ĩ ÷k ÷ U k + d z" w Öü = U q q => w w ü & w U w ĩ Uq d U k
 ÷ U k " w d ø k = z z w z ÷ f k U > Uq ĩ ø f k U > i ü ÷z ü = U •q w w w l • i ø @ z ü f Uq d k d i ø @ z ü f
 U w w i : ÷z z w" Uq w l z ü ø Öü = ü > w •& w U q w l i z U > ÷z ø zù ÷ U k + ö w U w w l ĩ ÷k d & ø d ••
 è X = ü U q => •ü w w k w l ü d U k Uq U" w l q U k > w U z ÷z i •q U k z Uq k d U f > ÷z ø zù ÷z i •q U k z Uq ĩ z k
 ÷ ø > z w l •& ¼ ü w i i ü z ü w ĩ i è X" d = d ü ü > U w =>] = ü U ÷z U w ĩ Uq z d U z w l > w ü w ĩ qø & L B = ÷ f Ž
 64q ç z w l ø ü w d w l w l qø qø > U k ø"] d U w z k L B = ÷ f w ü q qø z = Uq k •• > w ü w ĩ ø k
 ü w + w l > w ü w ĩ qø & L B = ÷ f •! ü z & Uq ü d U k Uq U ü Uq ø U d w Ž". " d ø U" w l > w ü w ĩ qø & L B = ÷ f = ü q
 w @Ž. !•ø w l > = ü z w z ü ü !•ø w ü d U k Uq U Ž

Pāe s—çā ø] •w ĩ ÷k ÷ U k + ü d U k > w ü w ĩ z Öü + ĩ ÷k d & ø d •• è X