

min E & |xn - f(g(xn))|2 } donde: 9(Xn) - Xn W F(5) = 5WT Por lo tanto My E & 11Xn - Xn WW 1/2 } Usando Media Muestral  $min = \frac{1}{N} \sum_{1}^{N} ||X_{1} - X_{1}||WWT||_{2}^{2}$  $\int_{1}^{\infty} \frac{1}{2} (x_{n} - x_{n} wut)(x_{n} - x_{n} wut)^{T}$ Min  $M_1$   $\frac{1}{2} \sum_{i=1}^{N} x_i x_i^{\dagger} - x_i (x_i ww^{\dagger})^{\dagger} - x_i ww^{\dagger} + x_i ww^{\dagger}$  $\frac{1}{\Lambda} = \frac{1}{2} \times n \times n^{-1} - \times n \times w \times x^{-1} - \times n \times w \times x^{-1} + \times n \times w \times x^{-1}$ MIN WTW=1, Entonces  $\frac{1}{N} = \frac{N}{N} \times \frac{1}{N} \times \frac{1}{N} = \frac{N}{N} \times \frac{1}{N} \times \frac{1}$ Min  $w^{\dagger}w = 1$ 5.3 1 Z Xn Xnt - Xn wwt Xnt Min

| come   | o es                            | stain                         | No                | 5          | Mı              | NΟ                              | MI  | ا کر      | 110              | 10          | a          | on           | (es        | Рe  | C-fo | a    | W    |      |  |
|--|---------------------------------|-------------------------------|-------------------|------------|-----------------|---------------------------------|---|-----------|------------------|-------------|------------|--------------|------------|-----|------|------|------|------|--|
| Min  | -1.                             | Ž                             | $\times_{\prime}$ | W          | U               | jΤ                              | Xı  | nt        |                  |             |            |              |            |     |      |      |      |      |  |
| S. 5   | $\mathcal{N}$                   | 1=1                           |                   |            |                 |                                 |   |           |                  |             |            |              |            |     |      |      |      |      |  |
|  | 7                               |                               |                   | 1. 2.      | . it            | .,                              | +   | 2         |                  |             |            |              |            |     |      |      |      |      |  |
| Min  |                                 | 1                             | ハハ                | w          | Ų,              | Χı                              | n'  | 5         |                  |             |            |              |            |     |      |      |      |      |  |
| 5, 7   |                                 |                               |                   |            |                 |                                 |   |           |                  |             |            |              |            |     |      |      |      |      |  |
| aplica   | ando                            | 9                             | ue                | ٤          | . 5             | X                               | 1   | 3         | =                | ع           | 5          | 1 X          | 3          |     |      |      |      |      |  |
| Min  | -                               | ExE                           | w                 | Тχ         | nT >            | Υ'n                             | W   | 3         |                  |             |            |              |            |     |      |      |      |      |  |
| 5·2  | W                               | ſω=                           | .1                |            |                 |                                 |   |           |                  |             |            |              |            |     |      |      |      |      |  |
| como   | e)                              | la                            | e,                | 1 Pero     | ın z            | ;4                              | ۵.  | e         | ×                | S           | વ          | no           | )          | los | otv  | as   | Var  | uble |  |
| Min<br>5.7                                     | - L                             | VT                            | ٤×                | Ş,         | χη <sup>†</sup> | Χn                              | 3   | W         |                  |             |            |              |            |     |      |      |      |      |  |
| 5.7  | wil                             | ひこく                           |                   | $\perp$    |                 |                                 |   |           |                  |             |            |              |            |     |      |      |      |      |  |
|  |                                 |                               |                   |            |                 |                                 |   |           |                  |             |            |              |            |     |      |      |      |      |  |
| ahora  | , 51                            | 254                           | mí                | no         | 5               | 9                               | ue<br>Pxp   |           | los              | طر          | nte        | <i>y</i>     | est        | án  | ce   | ntro | idos | >    |  |
| ahora<br>Ex § .                                |                                 |                               |                   |            |                 | 9°                              | ue<br>Pxp   | -         | los<br>Aut       | d0          | V-C        | d ianà       | est<br>es  | án  | ce   | nto  | idos | >    |  |
| Min  |                                 |                               |                   |            |                 | 9.<br>R                         | ne<br>pxp   | h         | los<br>Aut       | do 00       | uta<br>Uqr | )<br>ianà    | est        | án  | Ce   | nto  | idos | >    |  |
|  | _                               | wT                            | Σ:                |            |                 | 9.<br>R                         | ne<br>pxp   |           | los<br>Aut       | d.          | u-ta       | s) ·         | est<br>u   | án  | Ce   | nto  | ido  |      |  |
| M 1n<br>W<br>5.j                               | -<br>WTU                        | ω <sup>†</sup><br>) =         | Σ;                | x U        | )               |                                 |   |           |                  |             |            |              |            |     |      |      |      |      |  |
| Min  | -<br>WTU                        | ω <sup>†</sup><br>) =         | Σ;                | x U        | )               |                                 |   |           |                  |             |            |              |            |     |      |      |      |      |  |
| M 1n<br>W<br>5.j                               | -<br>wTu                        | w =<br>lang                   | Z;                | oe<br>land | Po              | ıra<br>e                        | 1   | in+       | egra<br>egra     | 71 (<br>(N) | ار کے      | n 1          | Test<br>(. |     |      |      |      |      |  |
| Min<br>w<br>s.j<br>aplican<br>objet            | -<br>20<br>10,                  | wT<br>lang<br>de              | Z;                | oe<br>land | ρο<br>Σχ        | ira<br>e                        | ,<br>,<br>,   | in+       | egra<br>egrab    | 7 (M)       | ال         | n 1          | Test<br>(. |     |      |      |      |      |  |
| Min<br>w<br>s.j<br>aplican<br>objet            | -<br>wTu                        | lang<br>de                    | Z;                | oe<br>land | ρο<br>Σχ        | ira<br>e                        | ı, ı  | in H      | egrab<br>Alu     | n (         | ال         | n 1          | Test<br>(. |     |      |      |      |      |  |
| Min<br>w<br>s.j<br>aplican<br>objet<br>(w<br>d | -<br>w Tu<br>!do<br>!Jo,<br>,2) | lang<br>de                    | Z;                | oe<br>on   | Po<br>27<br>27  | ira<br>e<br>z W                 | \(\lambda\) - \(\lambda\)   | int<br>gu | egraballu: c: c. |             | ال         | n 1          | Test<br>(. |     |      |      |      |      |  |
| Min<br>w<br>s.j<br>aplican<br>objet<br>L(u     | -<br>w Tu<br>!do<br>!Jo,<br>,2) | lang<br>de                    | Z;                | oe<br>on   | Po<br>27<br>27  | ira<br>e<br>z W                 | \(\lambda\) - \(\lambda\)   | int<br>gu | egraballu: c: c. |             | ال         | n 1          | Test<br>(. |     |      |      |      |      |  |
| Min<br>w<br>s.j<br>aplican<br>objet<br>(w<br>d | -<br>w Tu<br>!do<br>!Jo,<br>,2) | lang<br>de<br>= -<br>Ex<br>un | Z;                | oe<br>on   | Po<br>27<br>27  | 11ra<br>e<br>{ W<br>}<br>}<br>U | 1 ( ) - ( ) | into your | egraballu : c    | m 1 / 1     | ld<br>L    | n 11 a a -1) | Test<br>(. |     |      |      |      |      |  |

