The article "Improved spatial speckle contrast model for tissue blood flow imaging: Effects of spatial correlation among neighboring camera pixels"

in the Journal of Biomedical Optics (JBO) should be cited in any work related to the software.

```
MuInvFactor [m_, \eta_{-}] := \left( \text{Exp} \left[ -\pi \, \text{m} \, (\eta - 1)^2 \right] - 2 \, \text{Exp} \left[ -\pi \, \text{m} \, \eta^2 \right] + \text{Exp} \left[ -\pi \, \text{m} \, (\eta + 1)^2 \right] + \left[ \text{exponencial} \right] + \left[ \text{exponencial}
```

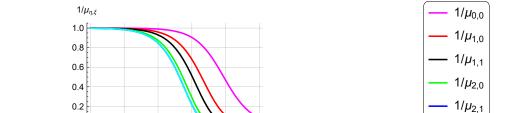
Out[23]=

0.0

0.010

 $M = a^2/\pi b^2 = Pixel area/Speckle area$ 

 $1/\mu_{2,2}$ 



```
In[5]:=
(*
%contraste espacial
% 2p+1≤sqrt(N)
              valor numérico
% M=area pixel/area speckle
*)
Ks[m_, n_, p_] :=
 Module {lateral, diagonal, knight, eta, xi, correccion, central, RETURN},
  lateral = diagonal = knight = 0;
  central = MuInv[m, 0, 0];
  If n > 1,
   For eta = 1, eta ≤ p, eta++, para cada
     lateral = lateral + (\sqrt{n} - eta) \sqrt{n} MuInv[m, eta, 0];
     diagonal = diagonal + \left(\sqrt{n} - eta\right)^2 MuInv[m, eta, eta];
    ; (*end for p*)
    lateral = 4 * lateral;
    diagonal = 4 * diagonal;
   For xi = 1, xi \le (p-1), xi++, para cada
     For eta = xi + 1, eta \leq p, eta ++,
      knight = knight + (\sqrt{n} - eta) (\sqrt{n} - xi) MuInv[m, eta, xi];
     (*fin del for eta*)
    ; (*fin del for xi*)
    knight = 8 knight;
    correccion = lateral + diagonal + knight;
    correccion = \frac{\text{correccion}}{\text{n (n - 1)}};
    , (*else*)
    correccion = 0;
  |; (*fin if*)
  RETURN = central - correccion;
  RETURN = \sqrt{RETURN}
```

Out[17]=

