



# Structural Similarity Measure to Assess Improvement by Noise in Nonlinear Image Transmission

Submitted by Emmanuel Lemoine on Thu, 01/30/2014 - 14:36

Titre	Structural Similarity Measure to Assess Improvement by Noise in Nonlinear Image Transmission
Type de publication	Article de revue
Auteur	Rousseau, David [1], Delahaies, Agnès [2], Chapeau-Blondeau, François [3]
Type	Article scientifique dans une revue à comité de lecture
Année	2010
Langue	Anglais
Date	2010
Numéro	1
Pagination	36 - 39
Volume	17
Titre de la revue	IEEE Signal Processing Letters
ISSN	1070-9908
Mots-clés	Image [4], improvement [5], Nonlinear [6], nonlinearity [7], stochastic [8], Structural [9], visual [10]
Résumé en anglais	We show that the structural similarity index is able to register stochastic resonance or improvement by noise in nonlinear image transmission, and sometimes when not registered by traditional measures of image similarity, and that in this task this index remains in good match with the visual appreciation of image quality.
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua1524">http://okina.univ-angers.fr/publications/ua1524</a> [11]
DOI	10.1109/LSP.2009.2031734 [12]
Lien vers le document	<a href="http://dx.doi.org/10.1109/LSP.2009.2031734">http://dx.doi.org/10.1109/LSP.2009.2031734</a> [12]

## Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=1901](http://okina.univ-angers.fr/publications?f[author]=1901)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=1971](http://okina.univ-angers.fr/publications?f[author]=1971)
- [3] <http://okina.univ-angers.fr/f.chapeau/publications>
- [4] [http://okina.univ-angers.fr/publications?f\[keyword\]=4364](http://okina.univ-angers.fr/publications?f[keyword]=4364)
- [5] [http://okina.univ-angers.fr/publications?f\[keyword\]=4571](http://okina.univ-angers.fr/publications?f[keyword]=4571)
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=1919](http://okina.univ-angers.fr/publications?f[keyword]=1919)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=3777](http://okina.univ-angers.fr/publications?f[keyword]=3777)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=3002](http://okina.univ-angers.fr/publications?f[keyword]=3002)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=4380](http://okina.univ-angers.fr/publications?f[keyword]=4380)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=4572](http://okina.univ-angers.fr/publications?f[keyword]=4572)
- [11] <http://okina.univ-angers.fr/publications/ua1524>
- [12] <http://dx.doi.org/10.1109/LSP.2009.2031734>

