

List of publications, J. Liandrat, january 2014

Publications in journals

1. LIANDRAT ,J.: "Écoulements d'interaction Tourbillon-Couche limite. Étude par la théorie des développements asymptotiques raccordés". C.R.Acad.Sci, Paris, t.305, Série 2,p.1401-1404,(1987)
2. LIANDRAT ,J., COUSTEIX ,J., AUPOIX ,B.: "Écoulement d'interaction Tourbillon-Couche limite. Étude de quelques modèles de turbulence". Journal de Mécanique Théorique et Appliquée, Vol 7 N°6 (1988)
3. LIANDRAT, J., MORET BAILLY, F.: "The wavelet transform; some applications to fluid dynamics and turbulence", European Journal of Mechanics B/Fluids vol 9, N°1, p 1,(1990)
4. F.MORET-BAILLY, J. LIANDRAT, M. P. CHAUVE, Ph. TCHAMITCHIAN:
"Déterminations du nombre de Reynolds de transition dans une étude de couche limite sur un disque tournant" C.R.Acad.Sci, Paris, t.313, Série II,p. 591-598, (1991)
5. LAZAAR, S., PONENTI, Pj., LIANDRAT, J., TCHAMITCHIAN, Ph.: "Wavelet algorithms for numerical resolution of partial differential equations" "Computer Methods in Applied Mechanics and Engineering" 116 (1994), pp 309-314
6. LAZAAR, S., LIANDRAT, J., TCHAMITCHIAN, Ph.: "Algorithme à base d'ondelettes pour la résolution numérique d'équations aux dérivées partielles à coefficients variables" C.R.Acad.Sci, t319, Série I, p1101-1107, (1994)
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11. CHIAVASSA, G., LIANDRAT, J.: "Un algorithme numérique hautement adaptatif et rapide à base d'ondelettes pour les équations d'évolutions", C.R. Math. Rep. Acad. Sci. Canada Vol 21 (2), 1999 pp. 33-38 (1999)
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13. CHIAVASSA, G., LIANDRAT, J.: "Fully adaptive wavelet algorithm for parabolic partial differential equations", Applied Numerical Mathematics 36 (2001) 333-358 (2001)
14. CHIAVASSA, G., GUICHAOUA, M., LIANDRAT, J.: "Some numerical algorithms for partial differential equations based on adaptive approximations using wavelets", Computers and Fluids, 31 (2002) 467-480 (2002)
15. PIQUEMAL, A.S, LIANDRAT, J.: "A comparison between wavelet and some other multiscale preconditioners for finite difference operators", International Journal of pure and applied mathematics, (IJPAM), 6-1 pp 1-15 (2003)
16. A. PACCOU, G. CHIAVASSA, J. LIANDRAT & K. SCHNEIDER: "A penalization method applied to the wave equation", C.R.Acad.Sci. Paris Série b, Vol 333/1 p79-85, 2004
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18. AMAT S., LIANDRAT, J.:“On the stability of the PPH nonlinear multiresolution”, Applied and computational harmonic analysis (ACHA), Vol 18-2, pp 198-206 (2005)
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20. AMAT S., DONAT, R., LIANDRAT, J., TRILLO, J.C.:“ Analysis of a fully nonlinear multiresolution scheme for image processing”, Foundations of computational mathematics,vol 6-2 pp193-225 (2006)
21. BACCOU, J., LIANDRAT, J.: “ Definition and analysis of a wavelet/fictitious domain solver for the 2D-heat equation”, Mathematical models and methods in applied sciences (M3AS),16-6, pp 1-27 (2006)
22. AMAT, S., DADOURIAN, K.,LIANDRAT, J., TRILLO, J.C.:“ Point value Hermite multiresolution for non smooth signals captured with noise”, WSEAS transaction on signal processing, 2-2 p 309-316 (2006)
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24. AMAT S., DONAT, R., LIANDRAT, J., TRILLO, J.C.:“ A fully adaptive multiresolution scheme for image processing ”, Mathematical and Computer Modelling , 46 1-2, pp2-11 (2007)
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33. AMAT, S., DADOURIAN, K., LIANDRAT, J.:“ Analysis of a class of non linear subdivision schemes and associated multi-resolution transforms” Advances in computational Mathematics,34-3 pp 253-277, (2011)
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41. AMAT, S.; LIANDRAT, J.: "On a nonlinear 4-point quaternary approximating subdivision scheme eliminating the Gibbs phenomenon", *SeMA (Sociedad Española de Matemática Aplicada) Journal*, 62-1, pp 15-25 (2013), doi:10.1007/s40324-013-0006-1
42. AMAT, S.; DADOURIAN, K.; LIANDRAT, J., TRILLO, J. C.: "High order nonlinear interpolatory reconstruction operators and associated multiresolution schemes", *Journal of computational and applied mathematics*, 253, pp 163-180 (2013)

Other publications

1. DJENIDI ,L., LIANDRAT, J., ANSELMET ,F., FULACHIER ,L.: "Numerical and experimental investigation of the laminar boundary layer over riblets" *Applied Scientific Research*, special volume on Turbulent Drag Reduction 46-3, pp 263-270 (1989)
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7. LIANDRAT, J.: "Some wavelet algorithms for turbulence analysis and modeling", in *Wavelets, theory and application*, G. Erlebacher, M.Y Hussaini, L. Jameson Edt., Oxford University Press, pp 316-348 (1996)
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15. X. SI, J. BACCOU, J. LIANDRAT: “Construction and Analysis of Zone-dependent Interpolatory/Non-interpolatory Stochastic Subdivision Schemes for Non-regular Data”, Lecture Notes in Computer Science 8177, pp456-470 2014