

Direction Technologie, Informatique et
Mathématiques Appliquées

Publications 2005 - 2007

Publications revues – base ISI

Année 2004 :

1. Comparison of conventional gas chromatography and comprehensive two-dimensional gas chromatography for the detailed analysis of petrochemical samples - DUVAL L (R11) - DUPLAN JL, VENDEUVRE C, BERTONCINI F (IFP) - THIEBAUT D, HENNION MC - Journal of Chromatography A, 1056, p155-162 - 2004
2. Least Square Modelling for the Control of Refining Processes on Mid-Distillates by Near Infrared Spectroscopy - AJI S, FARAJ A (R11) - SCHILDKNECHT-SZYDLOWSKI N (IFP) - Oil & Gas Science and Technology – Rev. IFP, Vol. 59 (2004), No. 3 pp. 303-321 – 2004
3. Domain decomposition for a finite volume method on non-matching grids - SAAS L, FAILLE I, WILLIEN F (R11) - NATAF F - Comptes Rendus Mathématique, Volume 338, Issue 5, 1 March 2004, Pages 407-412 – 2004
4. WOG - Well Optimization by Geosteering : A Pilot Software for Cooperative Modeling on Internet - RAINAUD JF, ELKOUHEN M (R11) - VINCKE O (IFP) - PERRIN M (Ecole des Mines de Paris - Centre de Géologie de l'ingénieur), BRANDEL S (Université Louis-Pasteur - LSIT, UMR) - Oil & Gas Science and Technology – Rev. IFP, Vol. 59 (2004), No. 4 pp. 427-445 – 2004
5. Mathematical and numerical analysis of a stratigraphic model - MASSON R, GERVAIS V (R11) - Mathematical Modelling and Numerical Analysis, Vol 38, 4, pp 585-612 – 2004
6. Multi-lithology stratigraphic models under maximum erosion rate constraint - TRAN QH, MASSON R (R11) - GRANJEON D (IFP) - EYMARD R, GALLOUET T - International Journal of Numerical Methods in Engineering, {bf 60}, pp 527-548 – 2004

Année 2005 :

1. Permeation of gases in polymers: parameter identification and non linear regression analysis - BENJELLOUN-TOUIMI DABAGHI Z, SCHEICHL R (R11) - KLOPFER MH, FLACONNECHE B (IFP) - Journal of Membrane Science, vol 254, 2005, pp 275-293 – 2005
2. Characterization of middle-distillates by comprehensive two-dimensional gas chromatography GCxGC : a powerful alternative for performing various standard analysis of middle distillates - DUVAL L (R11) - VENDEUVRE C, BERTONCINI F (IFP) - RUIZ-GUERRERO R, THIEBAUT D, HENNION MC - Journal of Chromatography A, 1086, p 21-28 - 2005
3. Optimized Algebraic Schwarz Methods for strongly heterogeneous and anisotropic layered problems - GERARDO-GIORDA L (R11) - NATAF F - Applied Numerical Mathematics – 2005
4. Numerical Simulation of a Stratigraphic Model at geological time scales - GERVAIS V, MASSON R (R11) - EYMARD R (Université de Marne-la-Vallée), GALLOUËT T (Université de Provence) - SIAM Journal of Numerical Analysis, vol. 43, 2, pp. 474-501 – 2005
5. Model based diagnosis module for a FCC pilot plant - CELSE B, CAUVIN C, HEIM B (R11) - GENTIL S. TRAVE-MESSUYES L. - Oil & Gas Science and Technology- Rev. IFP Vol 60 (2005), n°4, pp 661-679 – 2005
6. A short history of the least 15 year's Quest for IT Interoperability in the Petroleum E&P Industry - RAINAUD JF (R11) - Oil & Gas Science and Technology- Rev. IFP Vol 60 (2005), n°4, pp 597-605 – 2005

7. Information technologies for interoperability - RAHON D (R11) - BELAUD J-P (ENSIACET), PAEN D (RSI), TESTARD Laurent (RSI) - Oil & Gas Science and Technology- Rev. IFP Vol 60 (2005), n°4, pp 6 – 2005
8. A relaxation method for two-phase flow models with hydrodynamic closure law - MASSON R, TRAN QH - BAUDIN M (R11) - COQUEL F, BERTHON C - Numerische Mathematik 99 (3), 411-440 – 2005
9. A semi-implicit relaxation scheme for modeling two-phase flow in a pipeline - TRAN QH - BAUDIN M (R11) - COQUEL F - SIAM J. Sci. Comput. 27 (3), 914-936 – 2005
10. Finite Volume Methods for Domain Decomposition on Nonmatching Grids with Arbitrary Interface Conditions - SAAS L, FAILLE I, WILLIEN F (R11) - NATAF F - SIAM Journal on Numerical Analysis Volume 43 Issue 2, page 860-890 – 2005
11. Diagramme de Laguerre - BENNIS C, FLANDRIN N (R11) - BOROUCHE H - Comptes Rendus de l'Académie des Sciences, Série Mécanique, Volume 333, Numéro 10, pages 762-767 – 2005

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1. Image analysis using a Dual-tree M-band wavelet transform - DUVAL L (R11) - CHAUX C, PESQUET JC (univ.MLV.) - IEEE Trans. Image Processing, Volume 15, Issue 8, P 2397-2412 – 2006
2. Simulation and Reconstruction of Naphtha Steam Cracking Feedstocks based on Commercial Indices - WAHL F (R11) - HUDEBINE D, VERSTRAETE JJ (IFP) - VAN GEEM KM, REYNIERS MF, MARIN GB - Chemical Engineering Science / Juin – 2006
3. High Frequency Individual Cylinder Estimation for Control of Diesel Engines - CHAUVIN J, CORDE G, MOULIN P (R11) - PETIT N, ROUCHON P (CAS-ENSMP) - Oil & Gas Science and Technology, special issue "Development and Control of Combustion Systems / Volume 61 – 2006
4. Quantifying uncertainties on the solution model of seismic tomography - SINOQUET D (R11) - DUFFET C (Univ. Montpellier II) - Inverse Problems, Vol. 22, pp. 525-538 - 2006
5. Constrained optimization in seismic reflection tomography: a Gauss-Newton augmented Lagrangian approach - SINOQUET D - DELBOS F (R11) - GILBERT JC (INRIA), GLOWINSKI R (Univ. Houston) - Geophysical Journal International, Vol. 164pp. 670-684 – 2006
6. Optimized interface conditions in domain decomposition methods for problems with extreme contrasts in the coefficients - FLAURAUD E, WILLIEN F (R11) - NATAF F - Journal of Computational and Applied Mathematics, Volume 189, Issues 1-2, 1 May 2006, Pages 539-554 -2006
7. Numerical approximation of a two-phase flow problem in a porous medium with discontinuous capillary forces - MICHEL A, ENCHERY G (R11) - EYMARD R (Université de Marne-la-Vallée) - Siam J. on Num.Anal. 43, No. 6, 2402-2422 – 2006
8. Inversion of a multi-lithology stratigraphic Model to fit seismic data - DOBRANSZKY G, MASSON R (R11) - BLUM J, EYMARD R - Inverse Problems 22 (2006) 1207-1225 – 2006

Année 2007 :

1. Periodic input estimation for linear periodic systems : automotive engine applications - CHAUVIN J, CORDE G. -PETIT N - ROUCHON P. (ENSMP) -AUTOMATICA, Vol 43, pages 971-980 - 2007
2. Control of hybrid electric vehicles-SCIARRETTA A. - GUZZELLA L. (ETH) - IEEE Control Systems Magazine, Optimal energy-management strategies, vol 27, n°2, p.60-70 avril - 2007

3. Comprehensive two-dimensional gas chromatography for detailed characterisation of petroleum products- BERTONCINI F. - DUVAL L.- RUIZ-GUERRURO R. - VENDEUVRE C.- Oil & Gas Science and Technology - Revue de l'IFP - Vol. 62 (2007), No. 1, pp. 43-55- 2007
4. A relaxation multiresolution scheme for accelerating realistic two-phase flows calculations in pipelines- ANDRIANOV N. - TRAN QH - COQUEL F. - POSTEL M. (Université Pierre et Marie Curie) -International Journal for Numerical Methods in Fluids, vol. 54, pp 207-236- 2007
5. Convergence results for a semilinear problem and for a Stokes problem in a periodic geometry - BAILLET S - HENROT A. - TAKAHASHI T (IECN) -Asymptotic Analysis, vol 50, num 3-4, pp 325-337- 2007
6. Constrained optimization of energy management for a mild-hybrid vehicle - ROUSSEAU G. - SINOQUET D. - ROUCHON P. (EMP) - Oil & Gas Science and Technology - 2007
7. Engine control of a downsized spark ignited engine : from simulation to vehicle - LE SOLLIEC G. - CORDE G. - LE BERR F.- COLIN G. (LME) - CHAMAILLARD Y. (LME) -Oil & Gas Science and Technology - 2007
8. Towards integrated powertrain control for a mild-hybride urban vehicle with a downsized turbo-charged CNG engine -TONA P. - MOULIN P. - VENTURI S. - TILAGONE R. - GAUTIER P.- Oil & Gas Science and Technology - 2007
9. Airpath strategy for experimental transient control of a Diesel HCCI Engine - CHAUVIN J. - CORDE G. - PETIT N - ROUCHON P. (ENSMP) - Oil & Gas Science and Technology - 2007
10. Towards a stronger simulation support for engine control design : a methodological point of view- GRONDIN O. - LE SOLLIEC G.- ALBRECHT A. - LE BERR F.- Oil & Gas Science and Technology - 2007
11. Noise covariance properties in dual-tree wavelet decomposition -DUVAL L.- CHAUX C. - PESQUET JC. - (Univ MLV)- -IEEE Trans. Information Theory - 2007
12. Discontinuous Galerkin methods for semi-definite diffusion with advection - DI PIETRO D.-ERN A. (Ecole des Ponts, Marne la Vallée) -GUERMOND J.L. (Texas A&M, College station) - SIAM Journal on -Numerical Analysis (SINUM) - 2007

Publications autres revues

Année 2004 :

1. Lapped transforms and hidden Markov models for seismic data filtering - DUVAL L (R11) - CHAUX C - International Journal of Wavelets, Multiresolution and Information Processing / Vol 2, N°4, p 455-476 – 2004
2. Multi-scale characterization of fractured rocks used as a means for the realistic simulation of pollutant migration pathways in contaminated sites: a case study - TRENTY L (R11) - LE THIEZ P, LAROCHE C (IFP) - KINT K, GRAVESEN P, SANCHEZ F, MOLINELLI L, TSAKIROGLOU CD - Water, Air, and Soil Pollution: Focus 4: 201–214 - 2004

Année 2005 :

1. Optimized Schwarz methods for unsymmetric layered problems with strongly discontinuous and anisotropic coefficients - GERARDO-GIORDA L (R11) - NATAF F - Journal Numerical Mathematics, 13 (2005),265-294 – 2005
2. Diagrammes de puissance conformes pour l'ingénierie de réservoir - BENNIS C, FLANDRIN N (R11) - BOROUCCHAKI H (Université de Troyes) - Mécanique & Industries, Volume 6, Numéro 3, pages 369-379, mai-juin – 2005
3. Automatic Building of Structured Geological Models - SCHNEIDER S, RAINAUD JF (R11) - PERRIN M GUIARD N (ESMP), BRANDEL S (Université de strasbourg), LIENARD P BERTRAND Y (Université de Poitiers) - Journal of Computing and Information Science in Engineering / Juin – 2005
4. Knowledge - driven applications for geological modeling - SCHNEIDER S, RAINAUD JF (R11) - M. PERRIN - Journal of Petroleum Science for geological modeling – 2005
5. Linearized neural predictive control - a turbocharged SI engine application - CORDE G (R11) - COLIN G CHAMAILLARD Y (Univ. Orléans) - SAE 2005 Transactions Journal of Engines pp101-108 – 2005

Année 2006 :

1. 3D Hybrid Mesh Generation for Reservoir Simulation. - BENNIS C, FLANDRIN N (R11) - BOROUCCHAKI H (Université de Troyes) - International Journal for Numerical Methods in Engineering, Volume 65, Issue 10, pages 1639-1672 - 2006
2. Neural control of fast nonlinear systems-application to a turbocharged si engine with vct - CORDE G (R11) - COLIN G, CHAMAILLARD Y (Univ. Orléans) - IEEE Transactions on Neural Network for feedback control 2005-857295 – 2006
3. Sélection de modèle PLS par rééchantillonnage bootstrap - FARAJ A.- NOCAIRI H. - CONSTANT M. - Revue RNTI - N° spécial - à part. Oct. 2006 – Metz – 2006

Année 2007 :

1. Mathematical and Numerical study of a system of conservation law - TILLIER E. - EYMARD R (Univ. Marne la Vallée) - Journal of Evolution Equations, vol 7, number 2, p. 197 à 239, may 2007
2. Simulation based HCCI diesel engine control design -GRONDIN O. - CORDE G.-ALBRECHT A. - Autotechnology, volume n° 7, p. 60-63, avril 2007

Actes de congrès

Année 2004 :

1. Quantifying uncertainties on the solution model of seismic tomography - SINOQUET D.(R11), DUFFET C. (Univ. Montpellier II), - European Congress on Computational Methods in Applied Mathematics and Engineering, Finlande. - 2004
2. A 4D stratigraphic model fitting the seismic data for sedimentary basin - DOBRANSZKY G., MASSON R.(R11), ELBOUY E., CACAS MC.(IFP) - ECMOR European Conference on the Mathematics of Oil Recovery (Cannes) - 2004
3. A dedicated constrained optimization method for 3D reflection tomography - SINOQUET D., DELBOS F.(R11), GILBERT JC. -EAGE, Sharing the Earth. European Association of Geoscientists & Engineers conference & exhibition, 66th (Paris) - 2004
4. Automatic building of structural geological models - SCHNEIDER S., RAINAUD JF.(R11), BRANDEL S.(LSIIT), PERRIN M. (Ecole Nationale Supérieure des Mines de Pairs), GUIARD N. (IRCOM-SIC), LIENHARD P. (IRCOM-SIC), BERTRAND Y. (IRCOM-SIC) - ACM Symposium on Solid Modeling and Applications (Gênes) - 2004
5. Automatic building of structural geological models - SCHNEIDER S., RAINAUD JF. (R11), BRANDEL S. (LSIIT), PERRIN M. (Ecole Nationale Supérieure des Mines de Pairs), GUIARD N. (IRCOM-SIC), LIENHARD P. (IRCOM-SIC), BERTRAND Y. (IRCOM-SIC) - EAGE - 2004
6. CHEM, Advanced Decision Support System for Chemical/Petrochemical Manufacturing processes - CAUVIN S.(R11) - Conférence invitée. DX 04. 15th International Workshop on Principles of Diagnosis (Carcassonne) - 2004
7. CHEM: Advanced Decision Support Systems for Chemical/Process Industries - CAUVIN S., CELSE B.(R11)-ESCAPE-14 (Lisbon) - 2004
8. Cylinder individual AFR estimation based on physical model and using Kalman filters -MOULIN P., CORDE G., ROUSSEAU G (R11), CASTAGNE M. (IFP) - Society Automotive Engine World Congress (Detroit) - 2004
9. Engine Control Based on xPCTarget Platform Torque Control of a Gasoline Direct Injection single cylinder in NMVEG cycle - CORDE G., MOULIN P.(R11) , PIERRE P. -IAC - International Automotive Conference (Stuttgart) - 2004
10. Exact and linearised neural predictive control - a turbocharges SI engine example - CORDE G.(R11), COLIN G., CHAMAILLARD Y., BLOCH G., CHARLET A. - International Conference on Advances in Vehicle Control and Safety pp102-107 - 2004
11. Innovative knowledge-driven approach for Shared Earth Model building - RAINAUD JF (R11) , PERRIN M., BERTRAND Y. - Joint SPE/EAGE Conference (Madrid) - 2004
12. Model-based diagnosis module for a FCC pilot plant - CAUVIN S., CELSE B., HEIM B.(R11), GENTIL S., TRAVE-MASSUYES L. - ERTC-Computing (Londres) – 2004
13. Observer Design for Torque Balancing on a DI Engine - CHAUVIN J., CORDE G., MOULIN P (R11) , CASTAGNE M, PETIT N.(IFP), ROUCHON P (Ecole des Mines de Paris) - SAE - Society Automotive Engine World Congress (Detroit) – 2004
14. Seismic filtering in a lapped Transform domain with hidden Markov Models - DUVAL L.(R11), - EAGE, European Association of Geophysicists and Engineers (Paris) - 2004
15. Simulation of a multi-lithology stratigraphic model under maximum erosion - GERVAIS V., MASSON R.(R11), GRANJEON D. – ECMOR, European Conference on the Mathematics of Oil Recovery (Cannes) - 2004

16. Time-Varying Linear Observer for Torque Balancing on a DI Engine - CHAUVIN J, CORDE G., MOULIN P.(R11), CASTAGNE M., PETIT N. (IFP), ROUCHON P. (Ecole des Mines de Paris) - IFAC Symposium on Advances in automotive control (Salerno) - 2004
17. 3D Hybrid Mesh Generation for Reservoir Flow Simulation - BENNIS C.,FLANDRIN N.(R11), BOROUCHE H.(Université de Troyes) - In 13th International Meshing Roundtable, Williamsburg (USA) - 2004
18. 3D Hybrid Mesh Generation for Reservoir Simulation - BENNIS C., FLANDRIN N.(R11), BOROUCHE H. - 9th European Conference on the Mathematics of Oil Recovery (Cannes) – 2004
19. Development and Testbed Implementation of a Cylinder Individual Air Fuel Ratio Estimator - CHAUVIN J., CORDE G., MOULIN P.(R11), CASTAGNE M. (IFP) - FISITA World Automotive Congress (Barcelone) - 2004
20. Efficient System Identification for Model Predictive Control with the ISIAc Software - TONA P (R11), BADER JM (Axens) – ICINCO, International Conference on Informatics in Control, Automation and Robotics (Setubal) - 2004
21. Hilbert pairs of M-band orthonormal wavelet bases - DUVAL L. (R11), CHAUX C., PESQUET JC. (Université de Marne la vallée) – EUSIPCO, European Conference on Signal Processing (Vienne) - 2004
22. Hybrid Mesh Generation for Reservoir Flow Simulation of New Generation : Extension to 3D - BENNIS C.FLANDRIN N.(R11), BOROUCHE H. - 4th European Congress on Computational Methods in Applied Sciences and Engineering, Volume 6 on Computational Mathematics and Numerical Methods (Jyväskylä) - 2004
23. Identification des systèmes avancée pour la commande des procédés industriels avec le logiciel ISIAc, - TONA P., HUMEAU D. (R11), BADER JM(Axens) - Symposium ISA Techniques avancées et stratégies innovantes en modélisation et commande des procédés industriels (Martigues) - 2004
24. Introducing a new generation of reservoir simulation software paper PO13 - GRATIEN JM., MAGRAS JF., QUANDALLE Ph., RICOIS O. (R11) - ECMOR European Conference on the Mathematics of Oil Recovery (Cannes) - 2004
25. Noise reduction of images with multiple subband transforms - DUVAL L.(R11), TANAKA T. (Riken Brain Science Institute) – ICIP, International Conference on Image Processing (Singapour) - 2004
26. Parametric analysis of HC emissions on MVEG Cycle with single cylinder engine - CORDE G.(R11), CASTAGNE M.(R11), PIERRE P., FLOCH A., EYSSAVEL G, - FISITA World Automotive Congress (Barcelone) – 2004
27. PI controllers performances for a process model with varying delay - BARRAUD J., CREFF Y, (R11) PETIT N. (ENSMP-CAS) - IEE (Royaume-Uni) - 2004
28. Should future shared earth models be knowledge-driven rather than data-driven - RAINAUD JF., SCHNEIDER S., ZHU B.(R11), PERRIN M. (Ecole Nationale Supérieure des Mines de Paris) - EAGE/SPE Asia Pacific Oil and Gas Conference & Exhibition (Perth) - 2004
29. CHEM : Advanced Decision Support Systems for Chemical /Petrochemical manufacturing processes (conférence invitée) - CELSE B., CAUVIN S.(R11) -IAR/ICD - Intelligence Control and Diagnosis workshop of the institut franco-allemand pour les Applications de la Recherche (Karlsruhe) - 2004
30. EpiSEM Action : an Open "knowledge based" environment for Shared Earth Model ACTivities On the Net. - RAINAUD JF., SCHNEIDER S, ZHU B., ELKOUHEN M. (R11), PERRIN M. (Ecole Nationale Supérieure des Mines de Paris) - PETEX 2004 (Londres) - 2004
31. Real-Time Combustion Torque Estimation on a Diesel Engine Test Bench Using Time-Varying Kalman Filtering - CHAUVIN J., CORDE G., MOULIN P.(R11), CASTAGNE M, PETIT N., ROUCHON P (Ecole des Mines de Paris) - IEEE, Conference on Decision and Control 43rd (Paradise Island) - 2004

32. CAPE Web Services: the COGents way - BRAUNSCHWEIG B., NADJEMI O., ROUX P. (R11), GUESSOUM Z. (OASIS Team - Laboratoire d'Informatique de Paris VI), OASIS Team - Laboratoire d'Informatique de Paris VI), PAEN D.(Réalisation en Systémique Industrielle), FRAGA E. (University College of London - Department of Chemical Engineering), MARQUARDT W. (RWTH Lehrstuhl für Prozess Technik - Aachen Germany), PAEN D. (Réalisation en Systémique Industrielle), PIÑOL D (Aspen Technology - Barcelone Espagne), SAMA S. - ESCAPE-14 (Lisbonne) - 2004
33. Finite Volume Methods on Non-Matching Grids with Arbitrary Interface Conditions and Highly Heterogeneous Media - FAILLE I., SAAS L., WILLIEN F.(R11), NATAF F. - the 15th International Conference on Domain Decomposition Methods (Berlin) - 2004
34. Hidden Markov tree image denoising with redundant Lapped transforms - DUVAL L.(R11), NGUYEN T. (University of California, San Diego) – ICASSP, International Conference on Acoustics, Speech and Signal Processing (Montreal) - 2004
35. Nonlinear diffusion of gases in polymers - Parameter identification from permeation experiments - BENJELLOUN-DABAGHI Z (R11) - PARAOPE (Heidelberg) - 2004

Année 2005 :

1. 1D Simulation fo Turbocharged Gasoline Direct Injection Engine for Transient Strategy Optimization - CORDE G., BOIE H (R11) , CASTAGNE M., ALBRECHT A., KNOP V (IFP) - SAE - Society Automotive Engine World Congress (Detroit) - 2005
2. 2D dual-Tree M-band wavelet decomposition (prix) - DUVAL L.(R11), CHAUX C., PESQUET JC. (Université de Marne la vallée) - ICASSP (Philadelphie) - 2005
3. A finite volume method for the modeling CO2 storage - TILLIER E, TRENTY L., MICHEL A (R11) - Finite Volume for Complex Application - 2005
4. Maillages hybrides 3D fondés sur les diagrammes de puissance. - BENNIS C., FLANDRIN N.(R11), BOROUCHE H. -17th Congrès Français de Mécanique (Troyes) - 2005
5. Physical approach of volumetric phase estimation based of mixture laws for multiphase flows - BENTOLILA Y (R11), CONSTANT M. - 12th International Conference on Multiphase Production Technology (Barcelone) - 2005
6. Pushing the limit of 3D basin modeling with Linux clusters - AGELAS L., PEGAZ-FIORNET S (R11), REQUENA S, THIBAUT M (IFP) - EAGE (Madrid) – 2005
7. Real-Time Nonlinear individual cylinder air fuel ratio observer on a diesel engine test bench - CHAUVIN J., MOULIN P., CORDE G.(R11), PETIT N., ROUCHON P. (Ecole des Mines de Paris) – IFAC (Prague) - 2005
8. Seismic Data Analysis and Filtering with Dual-tree M Band Wavelets - DUVAL L., CHAUX C.(R11), PESQUET JC. (Université de Marne la vallée) - SIAM Géosciences (Avignon) - 2005
9. Seismic data analysis with a dual-tree M-band wavelet transform - DUVAL L (R11), , CHAUX C., PESQUET JC (Université de Marne la vallée) - EAGE (Madrid) - 2005
10. Une application des plans d'expérience à la simluation numérique des réservoirs pétroliers - WAHL F.(R11)- 30 ans de méthodologie de la recherche expérimentale (Aix en Provence) - 2005
11. A non-separable 2D complex modulated lappel transform and its applications to seismic data filtering - GAUTHIER J., DUVAL L. (R11), , PESQUET JC - EUSIPCO (Antalya) - 2005
12. Etude du bruit dans une analyse M-bandes en arbre dual - DUVAL L. (R11), CHAUX C., PESQUET JC. (Université de Marne la vallée) - GRETSI 2005 (Louvain) - 2005

13. Multistage cross flow ion exchange process for zeolite : Prediction method applied to MFI and MAZ - CELSE B., DUCHENE P. (R11), ROULEAU L., LLIDO E., SZYMANSKI R. - Congres FEZA, 23-25/08 (Prague) - 2005
14. Satellite image restoration using an M.band dual-tree wavelet analysis - DUVAL L. (R11), C. CHAUX C., PESQUET JC. (Universite de Marne la Vallée), BENAZZA-BENYAHIA A. (Sup'Com Tunisie) -Geometrical Transforms for Image Processing (Toulouse) - 2005
15. Vorticity field and acoustic sources in a turbulent flow at very low Mach and high Reynolds numbers - BRAC J. (R11), LANFREY PY.(IFP), SAGAUT P. (Université de Pierre et Marie-Curie) - ASME 2005 Denver - 2005
16. Surface Wave Attenuation in Foothills Areas : two innovative approaches - DUVAL L (R11), ANCEL M., BECQUEY M., BROTO K, (IFP) - SEG - Society of Exploation Geophysicists (Houston) - 2005
17. A linearly semi-implicit AMR method for 1-D gas-liquid flows - ANDRIANOV N., TRAN QH.(R11), COQUEL F., POSTEL M. - The Third International Conference on Computational Methods in Multiphase Flows (Portland, Maine) 10/2005 - 2005
18. Design of real-time torque balancing control for NADI concept using a 1D Diesel engine model - CORDE G., CHAUVIN J (R11), ALBRECHT A. (IFP), POTTEAU S. - Conference IAV-Engine process simulation and supercharging (Berlin) - 2005
19. Developpement de modèles pour la gestion intégrée des risques pour les systèmes de production pétroliers offshore. Utilisation de réseaux de Petri stochastiques interprétés. (prix) - DEJEAN JP.(R11), AVERBUCH D., GAINVILLE M. (IFP), DOUX F. - Qualita (Bordeaux) - 2005
20. Integrating Flow Assurance into Risk Management of Deep Offshore Fields Developments - DEJEAN JP. (R11), -OTC 2005 (Houston) - 2005
21. Linearized Neural Predictive Control a turbocharged SI Engine Application - CORDE G. (R11), COLIN G., CHAMAILLARD Y., CHARLET A., BLOCH G. - SAE, Society Automotive Engine World Congress (Detroit) - 2005
22. Optimized algebraic interface conditions in domain decomposition methods for strongly heterogeneous unsymmetric problems - GERARDO-GIORDA L. (R11), NATAF F. - Domain Decomposition International Conference 16 - 2005
23. Response surface models for hydrate prediction, deterministic and probabilistic applications - DEJEAN JP. (R11) - Multiphase production technology, International Conférence (Barcelone) - 2005
24. Semi-implicit multiresolution for multiphase flows - ANDRIANOV N., TRAN QH.(R11), COQUEL F., POSTEL M. - Sixth European Conference on Numerical Mathematics and Advanced Applications (Santiago de Compostela) - 2005
25. Simulation système moteur : un élément incontournable de la chaîne de conception du contrôle moteur - CORDE G. (R11), ALBRECHT A.(IFP), THOMAS V. (Imagine) - Conférence SIA – SIAM (Paris) - 2005
26. Turbocharged SI engine : A neural Approach - CORDE G. (R11), CHAMAILLARD Y., BLOCH G.(IFP), COLIN G. (LME), -Journées Automatiques Automobile (Bordeaux) - 2005
27. Performances d'un prédicteur adaptatif pour un modèle de procédé avec retard variable - BARRAUD J., CREFF Y. (R11) - Congrès SFGP, Toulouse-2005
28. Towards a Distributed High Performance Computing Environment for CAPE-OPEN Standard - PIGEON L., ROUX P. (R11), TESTARD L., GAUTIER T. - World Congress of Chemical Engineering - 2005

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1. A new estimator for image denoising using a 2D Dual-Tree M-band Wavelet Decomposition - DUVAL L. (R11), CHAUX C., BENAZZA-BENYAHIA A., PESQUET JC. – ICASSP, International Conference on Acoustics, Speech and Signal processing (Toulouse) - 2006
2. Air Path Estimation on Diesel HCCI Engine - CHAUVIN J., CORDE G.(R11), VIGILD G. (Ford), PETIT N. (IFP), ROUCHON P. (Ecole des Mines de Paris) – SAE, Society Automotive Engine World Congress (Detroit) - 2006
3. Bootstrap, SVM et polynomes de chaos pour les problèmes inverses - WAHL F., DA VEIGA S.(R11) - 38ièmes journées de Statistique Clamart - 2006
4. Development of Highly Premixed Combustion Diesel Engine Model : From simulation to control design - CHAUVIN J., CORDE G. (IFP), LAFOSSAS F., POTTEAUX S., ALBRECHT A, (R11) – SAE, Society Automotive Engine World Congress (Detroit) - 2006
5. Long-term flow simulation of CO2 storage in saline aquifer - TRENTY L., MICHEL A (R11), LE GALLO Y., VIDAL-GILBERT S., PARRA T., JEANNIN L (R11), - 8th Conference on GreenHouse Gas Technologies - IEA (Trondheim) - 2006
6. Low redundancy oversampled Lapped transforms and application to 3D seismic data - GAUTHIER J., DUVAL L.(R11), PESQUET JC. - ICASSP - International Conference on Acoustics, Speech and Signal processing (Toulouse) - 2006
7. Near-Infrared Modeling of Conjugated Diolefins in Selective Hydrogenation Units - WAHL F. (R11), LOPEZ-GARCIA C., BIGUERD H., MARCHAL-GEORGE N - AICHE - 2006
8. Periodic Input Observer Design : Application for unbalance diagnostics - CHAUVIN J., CORDE G. (R11), PETIT N.(IFP), ROUCHON P. (Ecole des Mines de Paris) - SAE - Society Automotive Engine World Congress (Detroit) - 2006
9. Sensor Dynamics Inversion for Imbalance Diagnosis - CHAUVIN J., CORDE G. (R11), PETIT N.(IFP), ROUCHON P. (Ecole des Mines de Paris) – SAE, Society Automotive Engine World Congress (Detroit) - 2006
10. Six Degrees Crankshaft Individual Air Fuel Ratio Estimation of Diesel Engines for Cylinder Balancing Purpose - CHAUVIN J., CORDE G., MOULIN P. (R11), PETIT N.(IFP), ROUCHON P. (Ecole des Mines de Paris) - SAE, Society Automotive Engine World Congress (Detroit) - 2006
11. Teaching Process Control with Scilab and Scicos - TONA P. (R11) - ACC, American Control Conference Minneapolis (Minnesota) - 2006
12. Thermo-Hydro-Chemical Performance Assessment of CO2 Storage in Saline Aquifer - TRENTY L., MICHEL A (R11), PARRA T., LE GALLO Y. (IFP)- 1st Symposium on Carbon Capture and Storage (Berkeley) - 2006
13. Wire Structure Pattern Extraction and Tracking from X-Ray Images of Composite Mechanisms - BENTOLILA Y. (R11) , TSHUMPERLE D. (GREYC), FADILI J. (GREYC) -Computer Vision and Pattern Recognition (New York) – 2006
14. A Sequential Splitting Strategy for CO2 Storage Modelling - TRENTY L., MICHEL A, (R11) LE GALLO Y. (IFP) - ECMOR European Conference on the Mathematics of Oil Recovery (Amsterdam) - 2006
15. Block Preconditioning and Multigrid solvers for linear systems in reservoir simulations, in the Proceedings of ECMOR 2006.– BONNEAU P., QUANDALLE Ph., MASSON R. (R11), ACHDOU Y. - ECMOR European Conference on the Mathematics of Oil Recovery (Amsterdam) - 2006

16. Combustion diagnosis for internal combustion engines with real time acquisition and processing - KER S., GUILLEMIN F., DUVAL L. (R11) - International Conference on Noise and Vibration Engineering (Louvain) - 2006
17. Constrained Optimization of Energy Management Strategies for a Mild-Hybrid Vehicle - SINOQUET D., ROUSSEAU G. (R11), ROUCHON P. (Ecole des Mines de Paris) - E-COSM, Rencontres Scientifiques de l'IFP (Rueil-Malmaison) - 2006
18. Control design for Diesel HCCI Combustion Engine based on Virtual Engine Simulator : From Control Development to Real-Time Calibration - CORDE G., MOULIN P., GRONDIN O. (R11), ALBRECHT A. (IFP) - THIESEL (Valence) - 2006
19. Downsized SI Engine Control : a torque-based design from simulation to vehicle - LE SOLLIEC G., CORDE G. (IFP), LE BERR F. (IFP), COLIN G. (LME) - E-COSM, New Trends in Engine Control, Simulation and Modelling (Rueil-Malmaison) - 2006
20. Experimental Motion Planning in Airpath Control for HCCI engines - CHAUVIN J., CORDE G. (R11), PETIT N., ROUCHON P. (Ecole des Mines de Paris) - ACC - American Control Conference 2006 (Minneapolis) - 2006
21. Extended Kalman Filtering for Real-Time Individual Cylinder Air Fuel Ratio Observer on a Diesel Engine Test Benches - CHAUVIN J., CORDE G., MOULIN P. (R11), PETIT N. (IFP), ROUCHON P. (Ecole des Mines de Paris) - ACC, American Control Conference 2006 (Minneapolis) - 2006
22. Filtre de Kalman ou Observateur de Luenberger non linéaire ? Comparaison expérimentale sur des exemples issus du contrôle moteur - CHAUVIN J., CORDE G., MOULIN P. (R11), PETIT N., ROUCHON P. (Ecole des Mines de Paris) - CIFA (Bordeaux) - 2006
23. Hybrid Meshes for Reservoir Flow Simulation. - BENNIS C., FLANDRIN N. (R11), BOROUCHE H. - 7th World Congress on Computational Mechanics (Los Angeles) - 2006,
24. M-band filter banks and dual-tree wavelets for engine combustions and geophysical image analysis (conférence invitée) - DUVAL L. (R11), CHAUX C., PESQUET JC. - Wavelet Applications in Industrial Processing IV (Boston) - 2006
25. Planification d'expériences dans l'industrie chimique - CELSE B. (R11), LEBACQUE V., BRAUNER N., FINKE G., RAPINE C. - Colloque IPI (Autrans) - 2006
26. Towards a stronger simulation support for engine control design : a methodological point of view - LE SOLLIEC G., GRONDIN O. (R11), ALBRECHT A., LE BERR F. (IFP) - E-COSM, New Trends in Engine Control, Simulation and Modelling (Rueil-Malmaison) - 2006
27. A model reduction case study : Automotive engine air path - CHAUVIN J. (R11), NILSSON O., RANTZER A. (LTH-Sweden) - Conference on Control Applications (Munich) - 2006
28. Airpath strategy for experimental control of a Diesel HCCI engine - CHAUVIN J., CORDE G. (R11), PETIT N. - E-COSM, New Trends in Engine Control, Simulation and Modelling (Rueil-Malmaison) - 2006
29. Constrained motion planning for the airpath of a Diesel HCCI engine - CHAUVIN J., CORDE G. (R11), PETIT N. - IEEE Conference on Decision and Control (San Diego) - 2006
30. Hybrid Electrical Vehicles: from optimisation Toward real-time control strategies - SINOQUET D., ROUSSEAU G. (R11), ROUCHON P. (Ecole des Mines de Paris) - International Workshop on Hybrid and Solar Vehicles (Salerno) - 2006
31. Modelling of a turbocharged SI engine with Variable Camshaft Timing for Engine Control Purposes - LE SOLLIEC G. (R11), LE BERR F., MICHE M., LAFOSSAS F. (IFP), COLIN G. (LME) - SAE, Society Automotive Engine World Congress (Toronto) - 2006

32. Scalability and Load Balancing Problems in Parallel Reservoir Simulation paper B028 - GRATIEN JM., GUIGNON T., MAGRAS JF., QUANDALLE Ph., RICOIS O. (R11) –ECMOR, European Conference on the Mathematics of Oil Recovery (Amsterdam) - 2006
33. Towards Integrated Powertrain Control for a Mild-Hybrid Urban Vehicle with a Downsized Turbo-Charged CNG Engine - TONA P., MOULIN P. (R11), VENTURI S., TILAGONE R., GAUTIER P. (IFP) - E-COSM, New Trends in Engine Control, Simulation and Modelling (Rueil-Malmaison) - 2006
34. Unexpected steady state behavior in model predictive control of constrained systems - COUENNE N. (R11), BORNARD G (Laboratoire d'Automatique de Grenoble), CHEBASSIER J. (Société RSI) - Non linear Model Predictive Control for Fast Systems (Grenoble) - 2006
35. Development of control strategies for hybrid vehicles: from dynamic programming to real time control strategies - SINOQUET D., ROUSSEAU G.(R11), ROUCHON P. (Ecole des Mines de Paris) - E-COSM, New Trends in Engine Control, Simulation and Modelling (Rueil-Malmaison) - 2006
36. Hybrid Mesh generation for local Grid Refinement in reservoir flow simulation - BENNIS C., FLANDRIN N.(R11), BOROUCHE H. - 10th European conference on the mathematics of oil recovery (Amsterdam) - 2006
37. Sélection de modèle PLS par rééchantillonnage bootstrap - FARAJ A., NOCAIRI H. (R11), CONSTANT M. (IFP) - SFC'06 - Metz - 6-8 Septembre -2006
38. Using multiagent systems for validating geological interpretation - ZHU B., BRAUNSCHWEIG B.(R11), GUESSOUM Z., PERRIN M. – ICCP Cluj-Napoca, Roumanie, 1er et 2 septembre -2006

Année 2007 :

1. 3D seismic data processing with complex non separable multidimensional lapped transform-GAUTHIER J.-DUVAL L. - Physics in Signal and Image Processing, Mulhouse (France) - 31 janvier au 2 février - 2007
2. Real-Time control strategies for hybrid vehicles issued from optimization algorithm - ROUSSEAU G. - SINOQUET D. - SCIARRETTA A. - 4th Braunschweig Symposium on Hybrid Vehicles and Energy Management, Braunschweig (Allemagne), 14 au 15 février - 2007
3. A causal operation strategy for hybrid electric vehicles based on optimal control theory-SCIARRETTA A. - AMBUL D. (ETH) - ONDER C. (ETH) - GUZZELLA L. (ETH) - STERZING S. (Robert Bosch) MANN K. (Robert Bosch) - KRAFT D. (Robert Bosch) - KUSSELL M. (Robert Bosch) - 4th Braunschweig Symposium on Hybrid Vehicles and Energy Management, Braunschweig (Allemagne), 14 au 15 février - 2007
4. Scalability and load balancing problems in parallel reservoir simulation - GRATIEN JM. - GUIGNON T. MAGRAS JF. - QUANDALLE P. - RICOIS O. - SPE-Reservoir Simulation Symposium, Houston (USA), 26 au 28 février -2007
5. 3D stratigraphic modelling in complex tectonics area-WOLF S.-GRANGEON D. - AAPG (American Association of Petroleum Geologists annual convention), Long Beach (USA), 1 au 4 avril - 2007
6. Local directional and incoherent seismic noise filtering with oversampled filter banks - GAUTHIER J. - DUVAL L. - CACAS M-C - EAGE Workshop on noise, London, 10 au 14 juin - 2007
7. Downsized SI Engine Control : A Torque-based Design from Simulation to Vehicle - LE SOLLIEC G. - CORDE G. - LE BERR F. - COLIN G. (LME) - SAE World Congress, Detroit (USA), 16 au 19 avril - 2007
8. Oversampled inverse complex lapped transform optimization -GAUTHIER J.- DUVAL L. - PESQUET JC (Univ MLV) - ICASSP, Honolulu (USA), 15 au 20 avril - 2007
9. Algorithm comparison for real time knock detection - KER S. - BONNARDOT F. - DUVAL L. - ICASSP, Honolulu (USA), 15 au 20 avril - 2007

10. 2D Dual-tree complex biorthogonal M-Band wavelet transform - DUVAL L - CHAUX C. (Univ MLV) PESQUET JC (Univ MLV)- ICASSP, Honolulu (USA) - 15 au 20 avril - 2007
11. Engine calibration : towards an integrated approach - BENTOLILA Y. - SINOQUET D. - CASTAGNE M. HALLE A. - NICOLAS F. - IAV Conférence - DOE in Engine Development Design of Experiments and Other Modern Development Methods, Berlin (Allemagne), 10 au 11 mai - 2007
12. Shape optimization of a submerged pump for oil - BAILLET S. - BRAC J. - HENROT A. (IECN) - 7th World Congress on Structural and Multidisciplinary Optimization 2007 (WCSMO 07), séoul, 21 au 25 mai - 2007
13. Automatic blobs fitting in comprehensive two-dimensional gas chromatography - CELSE B. - DUVAL L.- ADAM F. - BERTONCINI F. - International Symposium on GC*GC, Dalian (Chine) 2 juin -2007
14. Comprehensive two dimensional gas chromatography image segmentation using the level-set technique - DUVAL L. - CELSE B.-ADAM F. - BERTONCINI F.-BOURKEB Y. - DERICHE R. (INRIA)- -Dalian International Symposia and Exhibition on Chromatography (DISEC), Dalian (Chine), 4 au 7 juin - 2007
15. Thermo-hydro-chemical performance assessment of CO2 storage in saline aquifer - MICHEL A. - TRENTY L. - LE GALLO Y.- EURO THERM, Albi, 5 au 6 juin -2007
16. Seismic data analysis with dual-tree M-band wavelet transforms - DUVAL L - CHAUX Caroline (UNIV MLV) - KER S. (IFREMER) - EAGE Workshop on noise, London, 10 au 14 juin - 2007
17. Maximisation séquentielle de la diversité des sorties d'un système boîte noire à l'aide de Krigeage- BETTINGER R. - DUCHENE P.- -PRONZATO L. - THIERRY E. (Laboratoire I3S, CNRS-UNSA)- -Journées de la statistique, Angers, 11 au 15 juin - 2007
18. Planification expérimentale adaptative pour régression PLS - FARAJ A. - NOCAIRI H. - Journées de la statistique, 11 au 15 juin - 2007
19. Transient control of a Diesel engine airpath - CHAUVIN J., CORDE G. - PETIT N - American Control Conference, New York, 11 au 13 juillet - 2007
20. Lagrange-Projection scheme for two-phase flows : 1. application to realistic test cases - NGUYEN Q.L - TRAN Q.H -COQUEL F. - POSTEL M. (Université Pierre et Marie Curie) - ICIAM (International Conference on Industrial and Applied Mathematics), Zurich (Suisse) 16 au 18 juillet - 2007
21. Lagrange-Projection scheme for two-phase flows : 2. Boundary conditions and second order enhancement- TRAN Q.L. - NGUYEN Q.L. - COQUEL F. - POSTEL M. (Université Pierre et Marie Curie) - ICIAM (International Conference on Industrial and Applied Mathematics), Zurich (Suisse) 16 au 18 juillet 2007-2007
22. Study of the convergence of a non iterative splitting scheme -TILLIER E. - TRENTY L. - EYMARD R. - (Université MLV) - ICIAM (International Conference on Industrial and Applied Mathematics), Zurich (Suisse) 16 au 18 juillet - 2007
23. Rapid prototyping multi-sensors processing platform for real-time engine control and diagnosis -GRONDIN O. - DUVAL L. - GUILLEMIN F. - CORDE G. - KER S (IFREMER) - VIGILD C. - Fifth IFAC Symposium on Advances in Automotive Control, Monterey Coast (USA), 20 au 22 août - 2007
24. Experimental airpath control of a turbocharged SI engine with valve timing actuators - LE SOLLIEC G. - CORDE G. - CHAUVIN J. - Fifth IFAC Symposium on Advances in Automotive Control, Monterey Coast (USA), 20 au 22 août - 2007
25. Experimental control of variable CAM timing actuators - CHAUVIN J. -PETIT N - Fifth IFAC Symposium on Advances in Automotive Control, Monterey Coast (USA), 20 au 22 août -2007
26. Modeling and Control of a Diesel HCCI Engine -CHAUVIN J. - CORDE G.-ALBRECHT A-PETIT N - Fifth IFAC Symposium on Advances in Automotive Control, Monterey Coast (USA), 20 au 22 août - 2007

27. Motion planning control of the airpath of a S.I. engine with valve timing actuators - LEROY T. - CHAUVIN J. - CORDE G;- -PETIT N - Fifth IFAC Symposium on Advances in Automotive Control, Monterey Coast (USA), 20 au 22 août - 2007
28. Short-term spectral analysis and synthesis improvements with optimized oversampled inverse filter banks- GAUTHIER J. - DUVAL L. - PESQUET JC (Univ MLV) - SPIE, San Diego (USA), 26 au 30 août - 2007
29. Model-based compensation of the injections dynamics for multiple-injection combustion patterns- SCJARRETTA A. - CORDE G. - ICE 2007 - 8th SAE-NA International Conference on Engines For Automobile, Capri (Italie), 16 au 20 septembre - 2007
30. Construction de bancs de filtres faiblement redondants - GAUTHIER J. - DUVAL L. - PESQUET JC (Univ MLV)- -GRETSI, Troyes, 11 au 14 septembre -2007
31. Coherent noise removal in seismic data with dual-tree M-band wavelets - DUVAL L. - KER S. - CHAUX C. (Univ MLV) - PESQUET JC (Univ MLV) - SPIE, San Diego (USA), 26 au 30 août - 2007
32. AMT control for a mild-hybrid urban vehicle with a downsized turbo-charged CNG engine -TONA P. - MOULIN Ph.-VENTURI S. - TILAGONE R. - SAE World Congress, Detroit (USA), 16 au 19 avril - 2007
33. Extensive use of simulation for two-stage turbocharger diesel engine control strategy development-MOULIN Ph.- ALBRECHT A - MARBAIX M.- GUINOIS A. - FONTVIEILLE L. (Renault) -Engine Process Simulation and Supercharging, Berlin (Allemagne), 25 au 26 juin - 2007
34. Drive cycle reproduction on high dynamic test bed in order to perform transient calibration-CHASSE A. MOULIN Ph.- DEL MASTRO A. - CASTAGNE M. - Design of Experiments (DoE) in Engine Development, Berlin (Allemagne), 10 au 11 mai -2007
35. Air path estimation for a turbocharged SI engine with Variable Valve Timing -LEROY T. - CHAUVIN J. LE SOLLIEC G. - CORDE G. - American Control Conference, New York, 11 au 13 juillet - 2007
36. Polychrom : a software for semi-automated quantitative gcxgc analysis with identification profiles - CELSE B. - DUVAL L. - ADAM F. - BERTONCINI F. - BRODUSCH N. - ESNAULT S. - International Symposium on GC*GC, Dalian (Chine) 2 juin - 2007
37. Méthodologie de caractérisation mécanique d'enrobés sphériques - CELSE B. - OULD-CHIKH S. - ROULEAU L. - HEMATI M. (LGC Toulouse) - Congrès Science et Technologie des Poudres, Albi, 23 au 25 mai - 2007
38. Model based turbocharger control : application to a diesel HCCI engine -YOUSSEF B MOULIN P. - GRONDIN O. - Conference on control applications 2007, Singapour, 1er au 3 octobre - 2007
39. Polychrom : a comprehensive GC*GC data handing software - CELSE B. - DUVAL L. -BRES S. (INSA-Lyon) -Gulf Coast Conference, Galveston (USA), 16 au 17 octobre - 2007
40. Image segmentation of very high resolution electron microscopic images : a practical approach - CELSE B. - GUEROULT P. - MOREAU F. - SORBIER L.- BRES S. (INSA) - EOS, Lille, 12 au 14 septembre -2007
41. Fast time-space tracking of smoothly moving fine structures in image sequences-BENTOLILA Y. MARTINOT J.-TSCHUMPERLE D. - FADILI J. (GREYC IMAGE)- -ICIP 2007 (International Conference on Image Processing), San Antonio (USA), 16 au 19 septembre - 2007
42. Knowledge related challenges for efficient data fusion - RAINAUD JF - MASTELLA L. - PERRIN M. (EMP) - ABEL M. (Universidade Federal do Rio Grande Sul)-SEG, du 14 au 18 octobre, Vancouver (Canada) - 2007
43. On line parametric faults detection in induction motors based on graphical signature tool -YOUSSEF B - IEEE-IECON, du 5 au 8 novembre, Taipei, Taiwan - 2007

44. Scheduling chemical experiments - CELSE B. -LEBACQUE V. - BRAUNER N. - RAPINE C. FINCKE G. (INPG Grenoble)- -International Conference on Computers and Industrial Engineering, Le Caire (Egypte), 20 au 23 octobre - 2007

45. Using multiagent system to build structural earth model - ZHU B. - RAINAUD JF - GUESSOUM Z. (Lip 6) PERRIN M. (ECM) - 10th Pacific Rim International Workshop on Multi-Agents, Bangkok (Thailand), 21 au 23 novembre - 2007

46. Plans d'expériences pour régression PLS -FARAJ A. - ELOMARI L.- FERAILLE M. - BUSBY D. - Journées de Chimométrie, du 29 au 30 novembre, Lyon - 2007

Communications orales sans actes de congrès

Année 2004 :

1. Design of Experiments by Committee of Neural Networks – GILARDI N., FARAJ A. (R11) – International Joint Conference on Neural Networks – 2004
2. Schema VF multi-points pour modéliser les transferts thermiques dans les bassins sédimentaires – AGELAS L., FAILLE I. (R11) – GdR MOMAS – 2004
3. Utilisation du bootstrap pour la sélection de variables et la typologie des individus en régression PLS – FARAJ A. (R11), CONSTANT M. - 39èmes Journées de Statistique de la SFdS, Montpellier – 2004
4. Plan d'Expérience par Comités de Modèles Neuronaux – GILARDI N., FARAJ A. (R11) - 39èmes Journées de Statistique de la SFdS, Montpellier – 2004
5. Severe slugging elimination technique in multiphase production – TRAN Q.H. (R11), DURET E., PEYSSON Y. - Fourth North-American Conference on Multiphase Technology (Banff) – 2004
6. Débruitage d'images par analyse en ondelettes M-bandes en arbre dual (image denoising via dual-tree M-band wavelet analysis) – DUVAL L. (R11), PESQUET J.C., CHAUX C. (Université de Marne la Vallée) - Workshop "Contenu Informatif des Images Numériques" (Cachan) – 2004
7. Apport de la chromatographie en phase gazeuse bidimensionnelle pour la caractérisation de coupes pétrolières – DUVAL L. (R11), VENDEUVRE C., BERTONCINI F., THIEBAUT D. (IFP), HENNION M.C. - Club Ile de France - Nord de l'Association Francophone des Sciences Séparatives (Paris) – 2004
8. C5/C6 paraffins isomerization : New insights in reaction mechanisms – DUCHENE P.(R11), CASANAVE D., SURLA K., JOLY J.F. – 13th International Congress on Catalysis (Paris) -2004
9. Methodology for Automatic Building for Structured Geological Models – SCHNEIDER S., RAINAUD J.F (R11), PERRIN M., GUIARD N., LIENHARDT P., BERTRAND Y. – Conférence GEOMOD (Suisse) – 2004
10. Two models for the simulation of multiphase flows in oil and gas pipelines (conférence invitée) – FAILLE I. (R11) - Mathematical and Numerical aspects of Low Mach Number Flows (Porquerolles) – 2004
11. Evaluation of comprehensive two-dimensional gas chromatography (GCxGC) for the detailed characterization of complex hydrocarbon mixtures – DUVAL L.(R11) , VENDEUVRE C., BERTONCINI F. (IFP), PENET S., MONOT F., HAESLER F., THIEBAUT D., HENNION M.C. - ISCC - International Symposium on Capillary Chromatography (27th) (Riva del Gado) – 2004
12. Analysis of products issued from paraffins dehydrogenation by fast GC/MS, HRGC/MS and comprehensive GCxGC – DUVAL L. (R11), LEYMARIE N., VENDEUVRE C., BERTONCINI F., ROULLET C., PRIGENT F., BUCHER N., MORIN S. - American Society on Mass Spectrometry Conference and Allied Topics (52th) (Nashville) – 2004
13. Characterization of middle-distillates by comprehensive two-dimensional gas chromatography GCxGC : a powerful alternative for performing various standard analysis of middle distillates – DUVAL L.(R11), VENDEUVRE C., BERTONCINI F. (IFP), RUIZ-GUERRERO R., THIEBAUT D., HENNION M.C. - 2nd International Symposium on Comprehensive Multidimensional Gas Chromatography (Atlanta) – 2004
14. Pro/II and CAPE-OPEN integration (conférence invitée) – ROUX P. (R11) – SimSci User Meeting – 2004

Année 2005 :

1. Chimera Methods for Coupling Well and Reservoir Models – LADOUARI L., FAILLE I., MASSON R. (R11), NATAF F. – Congrès SIAM Geosciences (Avignon) – 2005

2. Can we change scale in basin modeling with local grid refinement ? (poster) – AGELAS L., PEGAZ-FIORNET S. (R11) – AAPG (Paris) – 2005
3. Improving precision with local grid refinement in basin models – AGELAS L. (R11) – AAPG (Paris) – 2005
4. AMG based preconditioners for stratigraphic modeling – GERVAIS V., MASSON R. (R11) - 8th European Multigrid Conference, Scheveningen, Hollande – 2005
5. Présentation de la suite logicielle ISIAC/MVAC – TONA P., COUENNE N. (R11), CHEBASSIER J. (RSI) – Réunion de groupe I.E.P. IFP-Lyon – 2005
6. Mixing Efficiently Geochemical Reactions and Multiphase Flow in Porous Media – MICHEL A (R11). - MS9 Numerical Methods for Reactive Transport: Beyond Operator Splitting - Part II of II, Congrès SIAM Geosciences (Avignon) – 2005
7. Inversion of Stratigraphic models – DOBRANSZKY G., MASSON R. (R11), BLUM J. - Conférence SIAM Geosciences, Avignon – 2005
8. Constrained non-linear optimization in 3D reflection tomography – SINOQUET D. (R11), DELBOS F. (IFP), GILBERT F. (INRIA) - SIAM - Conference of the Society for Industrial and Applied Mathematics, Mathematical and Computational issues in the geosciences, Avignon, 7-10 June 2005, Abstract – 2005
9. Méthodes Chimère en Volumes Finis – LADOUARI L., FAILLE I. (R11), NATAF F. – Journées scientifiques MOMAS – 2005
10. Optimisation de la sélection des variables pertinentes pour modèle de régression PLS par bootstrap – NOCAIRI H., FARAJ A. (R11) – Chimiométrie (Lille) – 2005
11. Design Concepts of a Work-Flow based Reservoir Simulation Hub – RICOIS O. (R11) - SPE/EAGE Reservoir Characterization and Simulation Symposium: Overcoming Today's Challenges in Field Development - Dubai, U.A.E. – 2005
12. CAPE-OPEN Dynamic Interfaces (conférence invitée) ; Prix : contribution innovante et durable au développement du standard CAPE-OPEN – ROUX P. (R11) – CO-LaN Annual Meeting – 2005
13. Prise en compte des volumes morts pour la commande des mélangeuses – CREFF Y. (R11), CHEBRE M., PETIT N. - Mathias (mathématiques appliquées, informatique avancée, automatique et statistiques) journée de présentation Total – 2005
14. Using Parallel Algebraic Multi-Grid Preconditioner in Reservoir Simulation - BONNEAU P., GRATIEN J.M., MAGRAS J.F., MASSON R., QUANDALLE P. (R11), ACHDOU Y. – EMG2005, Scheveningen, september 27-30 – 2005
15. Using Parallel Algebraic Multi-Grid Preconditioner in Reservoir Simulation - BONNEAU P., GRATIEN J.M., MAGRAS J.F., MASSON R., QUANDALLE P. (R11), ACHDOU Y., BASTIAN P. - Twelfth Copper Mountain Conference on Multigrid Methods – 2005
16. AMG based preconditioners in stratigraphic modeling (conférence invitée) – MASSON R. (R11) - Numerical Linear Algebra Conference, Institut de Mathématiques Numériques, Académie des Sciences de Russie, Moscou – 2005
17. Cours sur les écoulements en milieux poreux dans l'industrie pétrolière (conférence invitée) – MASSON R. (R11) – INRIA Rocquencourt – 2005

Année 2006 :

1. Méthodes Chimère pour la modélisation des écoulements polyphasiques en milieux poreux – LADOUARI L. (R11) – CANUM – 2006
2. VEHGAN, VEhicule Hybride au GAZ Naturel : intérêt de l'utilisation d'une motorisation downsizing GNV dans une approche hybride – TONA P. (R11) , TILAGONE R., VENTURI S. - 3ème congrès européen Alternatives Energétique dans l'automobile (Poitiers) – 2006
3. Some new results about dual-tree wavelet decompositions – DUVAL L. (R11), PESQUET J.C., CHAUX C. (Université de Marne la Vallée) - WAVE / W & A : Wavelets and Applications – 2006
4. Fully adaptive multiresolution methods for field-by-field explicit-implicit methods – ANDRIANOV N., TRAN Q.L., NGUYEN Q.L. (R11), POSTEL M., COQUEL F. - Eleventh International Conference on Hyperbolic Problems (Lyon) – 2006
5. Response surface modelling and optimization for engine calibration – SINOQUET D. (R11) - Workshop on Surrogate modelling and space mapping for engineering optimization, (SMSMEO-06), Technical University of Denmark, November 9-11 – 2006
6. Some applications of on-line optimization for process control (1) – CREFF Y. (R11) - 13th IFAC Workshop on Control Applications of Optimization (Cachan) – 2006
7. OpenICarre, an innovative open-source IT solution for E&P software – RAHON D. (R11), GUERILLOT D., BELLIN S. (IFP) - EAGE OpenSource workshop / 68th Conference & Exhibition (Vienne) – 2006
8. Optimisation temps réel des mélanges de carburants avec Anamel - Bilan 2001-2006 et perspectives – CREFF Y. (R11), CHEBRE M. (TOTAL), PETIT N. (ENSMP/CAS) - Mathias (mathématiques appliquées, informatique avancée, automatique et statistiques) journée de présentation Total – 2006
9. Résultats de convergence pour des problèmes elliptiques dans une géométrie périodique – BAILLET S., BRAC J. (R11), HENROT A. (IECN) – CANUM – 2006
10. Exécution CAPE-OPEN distribuée d'un champ de production sur un cluster de PC – PIGEON L. (R11) – Journée IEP (Informatique et Procédé) – 2006
11. Optimisation de forme d'une pompe pour effluents pétroliers – BAILLET S., BRAC J. (R11) – HENROT A. (IECN) – Forum des jeunes mathématiciennes – 2006
12. AMG based preconditioners for mixed elliptic hyperbolic systems, applications to stratigraphic modeling and reservoir simulations (conférence invitée) – BONNEAU P., QUANDALLE P., MASSON R. (R11) - Computation of flow and transport in porous media Workshop - Bath Institute of Complex Systems – 2006
13. Cahier des charges et état de l'art des schémas numériques en simulation de réservoir et bassin dans l'industrie pétrolière (conférence invitée) – AGELAS L., FAILLE I., MASSON R. (R11) – GdR MOMAS, Workshop (Porquerolles) – 2006
14. Distributed Dynamic CAPE-OPEN Simulation of Oilfield Production Networks on Clusters of PCs – ROUX P., PIGEON L., BRAUNSCHWEIG B. (R11), PAEN D. (RSI), GAUTIER T. (INRIA) – CO-LaN Annual Meeting – 2006
15. Dynamic CAPE-OPEN Simulation Approach on Cluster Oriented Architecture – ROUX P., PIGEON L., BRAUNSCHWEIG B. (R11), GAUTIER T. (INRIA) – AICHE – 2006
16. TINA/PlaTINA – ROUX P. (R11), GAINVILLE M. – CO-LaN Annual Meeting – 2006
17. CAPE-OPEN Unit Operation Wizard – ROUX P. (R11) - CO-LaN Annual Meeting – 2006

18. TINA/PlATINA: The Simulation Solution For Integrated Flow-Assurance From Near Well Bore To Export – ROUX P. (R11) – Journées IEP (Informatique et Procédé) – 2006
19. Un protocole de sauvegarde / reprise coordonné pour les applications à flot de données reconfigurables – PIGEON L. (R11) , BESSERON X., GAUTHIER T., JAFAR S. (INRIA) - RenPar'17 (Perpignan) – 2006
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2. Shape optimization of a well-pump for crude oil - BAILLET S. - BRAC J. - HENROT A. (IECN) - Second European Conference on Computational Optimization 2007 (EUCCO 07), Montpellier, 3 avril - 2007
3. Blending control for fuel production - CREFF Y. - Ecole CEA-EDF-INRIA : Contrôle Optimal Algorithmes et Applications - 2007
4. Optimization and uncertainty analysis for seismic inverse problems - SINOQUET D. - DELBOS F. - Sandia CSRI Workshop on Large-Scale Inverse Problems and Quantification of Uncertainty - 2007
5. Projet RNTL simPA2-C6E2 - BENJELLOUN-DABAGHI Z. - BOUSKELA D. - DEMAY E. - SOUYRI A. (EDF) - GUILLEMARD F. (PSA) - MARQUIS-FAVRE W. - THOMASSET D. (INSA-Lyon) - -NAJAFI M. NIKHOUKHAT R. - STEER S. - (INRIA) -Grand Colloque STIC - 2007
6. Signal and image analysis with M-Band dual-tree wavelets and filter banks (Info donné par LD le 18/01/08) - DUVAL L. - GAUTHIER J. - CHAUX C. - (Univ MLV) - PESQUET JC (Univ MLV)-BENZAZZA - BENYAHIA A. (Sup com Tunis)-Workshop on transitory Signal Processing, ECO NET, du 28 au 30 octobre, Budva (Montenegro) – 2007
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8. Un nouvel estimateur basé sur le principe de Stein pour le débruitage d'images multicanaux-DUVAL L. - CHAUX C. (Univ. Paris-Est Marne la Vallée) - BENAZZA-BENYAHIA A. (Sup Com Tunis) - PESQUET JC (Univ. Paris-Est Marne la Vallée) - Journée GdR ISIS, Analyse d'images multivariées, Paris le 29 novembre - 2007