

7 Production scientifique de Laurent D. Cohen, September 2021

Publications.

Thèses.

- [1] Laurent D. Cohen. Etude de quelques problèmes semi-linéaires paraboliques et elliptiques. PhD thesis, Université Paris 6, 1986.
- [2] Laurent D. Cohen. Etude des modèles de contours actifs et d'autres techniques de traitement d'Images. 2nd PhD thesis, Université Paris-Sud Orsay, 1990.
- [3] Laurent D. Cohen. Méthodes Variationnelles pour le Traitement d'images. Université Paris Dauphine, 1995. Mémoire d'Habilitation à diriger des recherches. Accompagné des 10 publications les plus significatives des années 1988-1995.

Articles de Revues Internationales à comité de lecture.

- [4] P. Baras and Laurent D. Cohen. Explosion totale après T_{max} de la solution d'une équation de la chaleur non linéaire. *Comptes Rendus de l'Académie des Sciences Sér.I*, 300(10), 1985.
- [5] P. Baras and Laurent D. Cohen. Complete blow-up after T_{max} for the solution of a semilinear heat equation. *Journal of Functional Analysis*, 71(1):142–174, March 1987.
- [6] Laurent D. Cohen. On active contour models and balloons. *Computer Vision, Graphics, and Image Processing: Image Understanding*, 53(2):211–218, March 1991. Cet article a été intégré dans un livre collectant les **meilleurs articles des 10 dernières années** sur le sujet.
- [7] Isaac Cohen, Laurent D. Cohen, and Nicholas Ayache. Using deformable surfaces to segment 3-D images and infer differential structures. *Computer Vision, Graphics, and Image Processing: Image Understanding*, 56(2):242–263, September 1992. Cet article a été intégré dans un livre collectant les **meilleurs articles des 10 dernières années** sur le sujet.
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- [10] Laurent D. Cohen. Auxiliary variables and two-step iterative algorithms in computer vision problems. *Journal of Mathematical Imaging and Vision*, 6(1):61–86, January 1996.
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 - [15] Denis Pellerin, Laurent D. Cohen, Fabrice Larrazet, Floris Pajany, Serge Witchitz, and Colette Veyrat. Preejectional left ventricular wall motion in normal subjects using doppler tissue imaging and correlation with ejection fraction. In *American Journal of Cardiology*, volume 80, pages 601–607, September 1997.
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- [73] Laurent D. Cohen and Isaac Cohen. Deformable models for medical images using finite elements & balloons. Conférence invitée. In *Actes Ecoles CEA - EDF - INRIA; Problèmes Non Linéaires Appliqués: Modélisations Mathématiques pour le traitement d'images*, pages 180–200, Rocquencourt, France, March 1992.
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- [88] Laurent D. Cohen. Surface Segmentation and Remeshing using front propagation in Medical Images. Conférence invitée. In *Actes Ecoles CEA - EDF - INRIA; Numerical Simulations of Blood Flows*, December 6-9, 2005, Rocquencourt, France.
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- [90] Laurent D. Cohen. Surface Segmentation using Front Propagation in Medical Images. Conférence invitée. In *7th international symposium on computer methods in biomechanics and biomedical engineering, special session on Computer Assisted Surgery and Planning*, Antibes, March 22-25, 2006.
- [91] Laurent D. Cohen. Invited to organize the minisymposium on Minimal Paths and Fast Marching Methods in Image Analysis. In *2006 SIAM Conference on Imaging Science.*, Minneapolis, Minnesota, USA, 15-17 may, 2006.
- [92] Laurent D. Cohen. Minimal Paths and Fast Marching Methods for Surface Segmentation and Meshing. In *Curves and Surfaces*, invited to minisymposium on Numerical geometry of images, Avignon, June 29- July 5, 2006.
- [93] Laurent D. Cohen and Gabriel Peyre. Exact and Heuristically Driven Geodesic Computations. In *Curves and Surfaces*, invited to minisymposium on Mesh generation, Avignon, June 29- July 5, 2006.
- [94] Laurent D. Cohen. Fast Marching and Minimal paths for Curve and Surface Segmentation. Conférence invitée. In *Journées de Metz 2007*, PDE and variational methods in image analysis, Metz, May 3-4-5, 2007.
- [95] Laurent D. Cohen. Front Propagation and Minimal paths for Image Segmentation. Conférence invitée. In *RIMA'07*, Rencontres MIP-LAMSIN en Imagerie Mathématique, Institut de Mathématiques de Toulouse, France, 11 et 12 Juin 2007.
- [96] Laurent D. Cohen. Geodesic Remeshing using front propagation. Conférence invitée. In *Summer Mathematical Research Center on Scientific Computing and Its Applications.*, Cemracs'07, Pre and Post Processing in Scientific Computing, Luminy, France, 23rd July-31st August 2007.
- [97] Laurent D. Cohen. Fast Curve and Surface Segmentation by finding geodesics. Invited Keynote. Conférence invitée. In *VipIMAGE 2007*, International ECCOMAS Thematic Conference on computational vision and medical image processing, FEUP, Porto, Portugal, 17-19th October 2007.
- [98] Laurent D. Cohen. Front propagation and Fast Marching for fast segmentation of objects in 2D and 3D images. Invited Keynote. Conférence invitée. In *Joint International Meeting of the AMS and Sociedade Brasileira de Matematica*, Special session on Mathematical Methods in Image Processing, IMPA, Rio de Janeiro, Brazil, June 4-7th 2008.
- [99] Laurent D. Cohen. Curve and Surface Segmentation Using Minimal Paths. In *2008 SIAM Annual Meeting*. Invited to Minisymposium on Segmentation and Data Mining, San Diego, California, USA, July 7-11, 2008.
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- [101] Laurent D. Cohen. Lignes géodésiques et segmentation d'images. Conférence invitée. In *SMAI-AFA Approximation, Modélisation Géométrique et Applications*. CIRM, Luminy, France, 24-28 novembre 2008.
 - [102] Laurent D. Cohen. Lignes géodésiques et analyse d'images. Conférence invitée. In *Séminaire de Mathématiques appliquées du Collège de France*, Paris, France 16 Janvier 2009.
 - [103] Laurent D. Cohen. Lignes géodésiques et analyse d'images médicales. Conférence invitée. In *1ère Journée de la Recherche à Dauphine* Paris, France 12 mai 2009.
 - [104] Laurent D. Cohen. Modèles Déformables et Chemins Minimaux, Applications en analyse d'images médicales. Conférence invitée. In *Cérémonie SMAI en l'honneur des lauréats des prix de Mathématiques Appliquées de l'Académie des Sciences IHP*, Paris, France, 18 Novembre 2009.
 - [105] Laurent D. Cohen. Invited to organize the minisymposium on Anisotropic Fast Marching and Applications. In *2010 SIAM Conference on Imaging Science.*, Chicago, Illinois, USA, 14 April 2010.
 - [106] Laurent D. Cohen. Extraction of tubular and tree structures in biomedical images using minimal paths and tubular models. Conférence invitée. in *Ill-posed Problems*, Rome, Italy. November 29-30, 2010.
 - [107] Laurent D. Cohen. Geodesic Methods for Biomedical Image Segmentation. Keynote. in *1st Technion Computer Engineering (TCE) Conference*, Technion, Haifa, Israel. June 1-5, 2011.
 - [108] Laurent D. Cohen. Geodesic Methods for Biomedical Image Segmentation. Conférence invitée. in *Analytic and Geometric Methods in Medical Imaging*, Cambridge, UK. August 22-26, 2011.
 - [109] Laurent D. Cohen. Geodesic Voting for Image Segmentation. Conférence invitée. in *Fronts and Interfaces in Science and Technology*, bath, UK. December 13-15, 2011.
 - [110] Laurent D. Cohen. A Voting scheme for vessel tree segmentation. Conférence invitée. in *Retinal Imaging Treatment and Analysis meeting (RITA)*, Institut de la Vision, Paris, France, October 15, 2012.
 - [111] Laurent D. Cohen. Non Local Active Contours. Conférence invitée. in *Workshop on Image Processing and Reaction-Diffusion*, Jerusalem, Israel, September 11-13, 2012.
 - [112] Laurent D. Cohen. Non Local Active Contours. Conférence invitée. in *Workshop on Nonlocal Problems*, Zurich, Switzerland, December 12-14, 2012.
 - [113] Laurent D. Cohen. Segmentation d'images vasculaires par vote géodésique. Conférence invitée. in *Journée thématique mathématiques, image et biomédecine*, Paris, France, 18 décembre 2012.
 - [114] Laurent D. Cohen. Extraction of tubular and tree structures in biomedical images using minimal paths and tubular models. Conférence invitée. in *Summer School and Workshop on Recent Advances in PDEs and Fluids à Stanford University*, Palo Alto, Californie, August 5-18, 2013.
 - [115] Laurent D. Cohen. Automatic segmentation of natural images with Anisotropic Fast Marching algorithm and Geodesic voting. Conférence invitée. in *Fronts and Interfaces in Science and Technology*, Madrid, Spain, December 11-13, 2013.
 - [116] Laurent D. Cohen. Geodesic Method for Blood Vessels and Tree Structure Segmentation. In *2014 SIAM Imaging Science Meeting*. Invited conference to Minisymposium on Detection and Analysis of Blood Vessels and Tree Shapes, Hong Kong, 12-14 May 2014.
 - [117] Laurent D. Cohen. Minimally Overlapping Combination of Geodesic Paths for Interactive Segmentation. Conférence invitée. In *Research Workshop on Shape and Image Modeling and Analysis (SIMA)*., Ein-Gedi, The Dead Sea, Israel, 28-31 May 2014.

- [118] Laurent D. Cohen. Geodesic Methods for Biomedical Image Segmentation. Keynote. in *4th International Conference on Image Processing Theory, Tools and Applications, IPTA*, Paris, France. October 14-17, 2014.
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- [120] Laurent D. Cohen. Segmentation of biomedical images using geodesic methods. Conférence invitée. In *Third International Workshop on Image Processing Techniques and Applications, incorporating Mathematical Imaging with Biomedical Applications.*, Liverpool, UK, 6-8 July 2015.
- [121] Laurent D. Cohen. Segmentation of retinal images using geodesic methods. Conférence invitée. In *Computer Methods in Biomechanics and Biomedical Engineering 2015 (CMBBE 2015).*, Montreal, Canada, September 1-5 2015.
- [122] Laurent D. Cohen. The Fast Marching Algorithm for Image Segmentation. Conférence invitée. In *Workshop on Algorithms and Applications (In honor of Ed Reingold's contributions on his 70th Birthday).*, Chicago, IL, USA, October 12 2015.
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- [360] Centered Path construction in 3D images, avec T. Deschamps et S. Makram-Ebeid au LEP. 1999, étendu à l'international en 2000. (Image Processing Method, System and Apparatus for Processing an Image representing a tubular structure and for constructing a path related to said structure, March 1999 International Publication Number: WO 00/41134)
- [361] Outils de traitement d'images en Photogrammetrie, n° BD 1276 "Procédé de mesurage d'un objet tridimensionnel ou d'un ensemble d'objets". avec M. Viala, S. Naudet et R. Maroy au CEA, 1999, étendu à l'international en 2001.
- [362] Station d'imagerie médicale à segmentation rapide d'images, avec T. Deschamps à Philips Recherche France. EP02079269A Octobre 2001, étendu à l'international en 2002. (02.05.2003 Ref #FR2831306, #EP1306803)
- [363] Fast surface interpolation, avec R. Ardon et J.-M. Lagrange à Philips Recherche France, 2003.

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Principaux Rapports Industriels

- [367] Laurent D. Cohen. Méthodes de moindres carrés pour l'équation de burgers. Technical report, Avions Marcel Dassault-Bréguet Aviation, 1984.
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Rapports d'activités de conseil et collaboration

- [373] Laurent D. Cohen. Déconvolution et amélioration d'image. Technical report, Schlumberger Montrouge Recherche, Octobre 1988.
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- [380] Laurent D. Cohen. Optimisation d'algorithmes pour la segmentation et fusion de données par minimisation d'énergie. Technical report, EuropScan Schlumberger, 1995 et 1996.
- [381] Laurent D. Cohen. Etat de l'art sur l'indexation par le contenu de séquences vidéo. Technical report, Alcatel Alsthom Recherche, 1996-1997.
- [382] Laurent D. Cohen. Méthode numérique de résolution des contours actifs dans le système d'aide à la détection d'objets dans des images de tuyauterie industrielle. Technical report, CEA, 1998.

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- [383] Laurent D. Cohen. Reconstruction de surfaces par méthodes variationnelles pour des applications en imagerie sismique 3d. Technical report, Elf Aquitaine, 1998.
- [384] Laurent D. Cohen. Etude de la reconstruction de surfaces à partir d'une paire d'images stéréo. Technical report, EuropScan, Février 1999.
- [385] Laurent D. Cohen. Filtres adaptatifs et restauration d'images. Technical report, Heymann Systems, Mars 2000.
- [386] Laurent D. Cohen. On vessel segmentation, central line and bone removal. Technical report, Algotec, Mars 2003.

Thésards sous ma direction (et ce qu'ils sont devenus)

1. Isaac Cohen : Thèse de doctorat d'université, spécialité Mathématiques appliquées soutenue à Paris-Dauphine le 3 Juin 1992 sur les "*Modèles déformables 2-D et 3-D: Application à la segmentation d'images médicales*". Bourse MRT de Paris-Dauphine. Devenu Chercheur INRIA puis Research Assistant Professor, Computer Science à USC, Los Angeles, puis Directeur de Recherche à Honeywell, Minneapolis, puis à United Technologies.
2. Eric Bardinnet (à l'INRIA Sophia Antipolis): Thèse de doctorat d'université, spécialité Mathématiques appliquées soutenue à Paris-Dauphine le 19 Décembre 1995 sur "*Modèles déformables contraints: Applications à l'imagerie médicale.*" Bourse MRT de Paris-Dauphine. Devenu chercheur à l'INRIA puis à l'INSERM.
3. Bertrand Leroy: Thèse de doctorat d'université, spécialité Mathématiques appliquées soutenue à Paris-Dauphine le 27 Juin 1996 sur les "*Modèles déformables et modèles de déformation appliqués à la reconnaissance de visage.*" Bourse MRT de Paris-Dauphine et financement AMIBE. Devenu chercheur à USC, Los Angeles puis dans une start-up en Suisse.
4. Zakaria Ben Sbeh : Thèse de doctorat d'université, spécialité Mathématiques appliquées soutenue à Paris-Dauphine le 6 Mai 1998 "*Une nouvelle méthode de segmentation en morphologie mathématique basée sur la reconstruction géodésique: Applications à l'extraction de drusen en imagerie d'angiographie numérisée d'ophtalmologie.*" Bourse du gouvernement Marocain. Devenu Ingénieur dans une société de services informatiques.
5. Martin Lefebure : Thèse de doctorat d'université, spécialité Mathématiques appliquées soutenue à Paris-Dauphine le 3 Novembre 1998 "*Estimation de Mouvement et Recalage de Signaux et d'Images : Formalisation et Analyse.*" Bourse MRT de Paris-Dauphine. A créé sa société, Realeyes3D, basée sur des techniques issues de sa thèse, devenue filiale de Siemens par la suite.
6. Thomas Deschamps : Thèse soutenue à Paris-Dauphine le 20 Décembre 2001 *Extraction de courbes et surfaces par méthodes de chemins minimaux et ensembles de niveaux, Applications en Imagerie médicale 3D.* Convention CIFRE avec Philips (LEP/PRF). Devenu Chercheur au LBL, Berkeley, USA, puis à General Electric, puis Responsable Scientifique de l'ambassade de France à San Francisco.
7. Samuel Vinson : Thèse soutenue le 29 Avril 2002 à Paris-Dauphine. *Modèles déformables et Méthodes variationnelles : applications en imagerie satellitaire et aérienne.* Convention CIFRE avec Matra. Devenu Ingénieur dans une start-up de TV interactive puis à Sagem.

8. Roberto Ardon : Thèse soutenue le 17 Mars 2005 à Paris-Dauphine. *Extraction de surfaces contraintes dans des images 3D et chemins minimaux, applications en imagerie médicale*. Convention CIFRE avec Philips Recherche France (PRF). Devenu Ingénieur de Recherche chez Philips.
9. Valérie Moreau : Thèse soutenue le 15 Décembre 2005 à l'INRIA Sophia Antipolis. *Méthodes Variationnelles et séquentielles pour l'étude de la contraction cardiaque*. Bourse AMN de l'ENS Cachan, en codirection avec l'INRIA Sophia Antipolis. Professeur Agrégée. Enseignante en classe préparatoires.
10. Pablo Arbelaiz : Thèse soutenue le 24 Novembre 2005 à Paris-Dauphine. *Une approche métrique pour la Segmentation d'images*. Bourse MRT de Paris-Dauphine. Actuellement Chercheur a Berkeley.
11. Stéphane Bonneau : Thèse soutenue le 18 Décembre 2006 à Paris-Dauphine. *Chemins minimaux en Analyse d'images : Nouvelles contributions et applications à l'imagerie biologique*. Bourse MRT de Paris-Dauphine. Travaille dans l'optimisation de portefeuille pour une société d'investissement a Londres.
12. Oudom Somphone : Thèse soutenue le 4 Février 2009 à Paris-Dauphine. *Recalage par éléments finis avec partition de l'unité - Applications en imagerie médicale*. Convention CIFRE avec Philips Recherche France (PRF). Devenu Ingénieur de Recherche chez Philips.
13. Adrien Auclair: Thèse soutenue le 10 septembre 2009. *Méthodes rapides pour la recherche des plus proches voisins SIFT : application à la recherche d'images, et Contributions à la reconstruction 3D multivues*. Convention CIFRE. A créé sa start-up, CVDM, basée sur des techniques issues de sa thèse, puis a créé une autre société.
14. Fethalla Benmansour : Thèse soutenue le 17 Décembre 2009 à Paris-Dauphine *Méthode des chemins minimaux appliquée à l'imagerie médicale : Segmentation de structures Tubulaires et de Surfaces par Anisotropie multi-échelle et par détection récursive de points -clés*. Bourse AMX à Paris-Dauphine. Postdoc à l'EPFL, puis Scientist - Senior Imaging Specialist, Roche, Bale, Suisse.
15. Jean-Baptiste Fiot : Thèse soutenue le 17 Septembre 2013 à Paris-Dauphine *Mathematical methods of image analysis for cross-sectional and longitudinal population studies*. Collaboration avec CSIRO, Australie. Contrat Doctoral Université Paris-Dauphine. **Prix de la meilleure thèse 2014** de la Fondation Dauphine. Research Scientist, PhD IBM Research - Ireland.
16. Prasenjit Saha : Thèse DSRA soutenue le 16 Septembre 2013 à Paris-Dauphine *Méthodes géodésiques en analyse d'images*. Contrat doctoral Université Paris Dauphine.
17. Raphael Prevost : Thèse soutenue le 21 Octobre 2013 à Paris-Dauphine *Variational methods for model-based image segmentation - Applications in medical imaging*, Convention CIFRE Philips Recherche France (PRF). **Prix de la meilleure thèse 2014** de la Fondation Dauphine. Prix AMIES de la meilleure thèse 2014. Prix de thèse AFRIF 2013 mention spéciale. Research Scientist, ImFusion, Munich.

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18. Jose Alberto Iglesias Martinez: Thèse commencée en 2010 sur des *méthodes de vote géodésique pour la reconnaissance de formes*, en collaboration avec le Technion, Haifa, Israël, dans le cadre d'une bourse du projet Européen FIRST. Thèse soutenue en 2015. Université de Vienne, Autriche.
 19. Da Chen: Thèse commencée en Novembre 2012, soutenue le 27 Septembre 2016 à Paris-Dauphine sur des *Nouveaux modles de chemin minimal pour l'extraction de structures tubulaires et la segmentation d'images*, bourse Chinoise. PostDoc au CEREMADE, et à l'institut de la vision, Hopital des Quinze-Vingts. Chercheur Dans le Centre National d'Intelligence Artificielle en Chine.
 20. Fang Yang: Thèse commencée en Novembre 2013, soutenue le 14 Septembre 2017 à Paris-Dauphine, sur *Finding Contours in Images Using Geodesic Lines and Field Lines*, bourse Chinoise. Enseignante-Chercheur dans une université en Chine
 21. Qi-Chong Tian: Thèse commencée en Octobre 2014, soutenue le 4 Octobre 2018 à Paris-Dauphine, sur *Color Correction and Contrast Enhancement for natural Images and Videos.*, bourse Chinoise. Enseignant-Chercheur dans une université en Chine
 22. Abraham Marciano: Thèse commencée en Juin 2015, soutenue le 3 Juillet 2018 à Paris-Dauphine, sur des *méthodes de recalage pour des images de radiographie industrielle*, convention CIFRE Smiths. Ingénieur-Chercheur en Machine Learning et Video dans une entreprise en Israël.
 23. Emmanuel Cohen: Thèse commencée en Septembre 2015, soutenue le 19 Décembre 2018 à Paris-Dauphine, sur *Cartographie, analyse et reconnaissance des réseaux vasculaires par Doppler ultrasensible*, contrat doctoral PSL. Ingénieur en imagerie médicale à Paris.
 24. Liu Li: Thèse commencée en 2017, soutenue le 28 Aout 2019 à Nanjing South-east University, Chine, sur des *Geodesic metrics approach and its application in retinal image processing*, bourse Chinoise. Enseignante-Chercheur dans une université de Shanghai en Chine
 25. Pierre Meriguet: Thèse commencée en 2017 sur des *méthodes de Learning pour la reconnaissance des formes en imagerie de radiographie industrielle*, convention CIFRE Smiths.
 26. Raphael Grosnot: Thèse commencée en 2017, soutenue le 29 Juin 2021 à Paris-Dauphine, sur *:Représentations séparables de formes 3D pour le traitement de formes, Separable 3D Shape representation for shape processing*, contrat doctoral PSL.
 27. Changqing Fu: Thèse commencée en 2019 sur *:Deep Learning and GAN for 3D shapes* , contrat doctoral PSL-PRAIRIE.
 28. Théo Bertrand: Thèse commencée en 2020 sur *:Analyse d'images de Microscopie UltraRapide*, contrat doctoral PSL-PRAIRIE.
 29. Nicolas Makaroff: Thèse commencée en 2021 sur *:Segmentation et modélisation de structures arborescentes par Deep Learning avec contraintes*, contrat doctoral PSL-PRAIRIE.

- Participation au Jury et/ou **rapporteur** pour les thèses de

- I. Cohen, **S. Benayoun**, E. Bardinnet, B. Leroy, Z. Bensbeh, E. Klein et M. Lefebure, T. Deschamps, S. Vinson, F. Ranchin, R. Ardon, P. Arbelaez, S. Bonneau, O. Somphone S. Pelletier, F. Benmansour, P. Saha, J.-B. Fiot, R. Prevost, H. Raguet, Da Chen, Fang Yang, Abraham Marciano, Emmanuel Cohen, Qi-Chong Tian (Dauphine),
- **Y. Elomary** et **J. O. Lachaud** (TIMC - IMAG , Grenoble),
- **S. Djeziri** et **A. Thaibaoui** (Paris XII, Val de Marne),
- **B. Derdouri** (Dijon),
- T. Garcin, **J. Paumard** et O. Cherif Idrissi (ENS Cachan),
- **M. Fidrich**, **D. Béréziat** et Cyril Allouche (Orsay),
- **P.-J. Reissman** (Creatis Lyon),
- **S. Vieira** (Elf et Université de Pau),
- C. Bonciu et **A. Zogheib** (Orléans),
- **M. Rochery**, V. Moreau, S. Teboul et J. Montagnat (Nice),
- **H. Rifai**, **C. Hernandez Esteban**, **D. Lesage**, N. Chenouard, G. Pizaine et Hadrien Bertrand (ENST),
- **P. Cachier** (Ecole Centrale Paris),
- **F. Angella** et **B. Taton** (Bordeaux),
- **S. Schupp** et **V. T. TA** (Caen),
- **F. Richard**, Caroline PetitJean, Nicolas Verbeke et A. Auclair (Paris 5),
- **E. Dejnoskova** (Mines de Paris),
- **J. Glaunès** et Nicolas Lermé (Paris-Nord),
- G. Peyré (CMAPX, Ecole Polytechnique)
- J. Mille et J. Olivier (Tours)
- **C. Allène** et Odysée Merveille (ESIEE)
- P. Maurel (ENS Ulm)
- **M. P. Garcia** et **Ahmed Oukili** (Rennes)
- T. Lefevre et S. Cremer (Telecom Sud Paris)
- **Lilian Ji** et **Ben Appleton** (University of Sidney, Australie),
- **R. Ben-Ari** et **M. Feigin-Almon** (Tel Aviv University, Israel)
- **Erik Bekkers** (TU Eindhoven, The Netherland)
- **Liu Li** (Nanjing South East University, China)

et le jury d'habilitation de

- A. Elmoataz (Caen) et
- **L. Najman** (ESIEE, Marne-la-vallée), **J. O. Lachaud** (Bordeaux), Didier Auroux (Toulouse), C. Peyré (Paris Dauphine, coordinateur).

Séminaires Invités en France et à l'étranger

Voir aussi la liste de publications précédente pour les présentations de communications à des Colloques avec comité de lecture et actes publiés.

- Séminaires invités dans un cadre universitaire:
 - Séminaire Analyse Numérique Université Paris 6 (85).

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- Colloquium du CEREMADE (Janvier 91).
 - Séminaire “Structure déformable en Imagerie” de Sudimage-Ecole Normale Supérieure, rue d’Ulm puis Cachan (Janvier 91 et 95).
 - Université de Nancy (Novembre 92).
 - Stanford Research Institute, Menlo Park, Californie (Juillet 93).
 - Stanford University, Palo Alto, Californie (Juillet 93).
 - University of South California, Los Angeles (Août 93).
 - INRIA Sophia Antipolis (Février 94).
 - Technion, Haifa (Octobre 94)
 - Brown University, Providence, *Diffusion meeting 1995 ESPRIT-NSF* (Juin 95).
 - Présentation de travaux au GT1 du GDR-PRC Communication Homme-Machine sur les approches variationnelles et statistiques (7 Juillet 95).
 - Hebrew University, Jerusalem (Octobre 88 et 95);
 - Weizman Institute, Rehovot (Octobre 95).
 - Lawrence Berkeley Laboratory (LBL) et University of California, Berkeley, Californie (Juin 1996).
 - INESC et Instituto Superior Tecnico, Technical University, Lisbonne, Portugal (Novembre 1996).
 - Conférence invitée à l’assemblée générale du GDR ISIS, Marly-le-Roy (4 Avril 97).
 - Conférence invitée au GT3 du GDR ISIS - Modèles déformables dynamiques (14 Octobre 97).
 - CMLA, ENS Cachan (11 Décembre 97).
 - Conférence invitée à la journée “Imagerie Doppler et modélisation du myocarde,” Faculté de Médecine Paris-Sud (11 février 98)
 - Enserb, Bordeaux (18 Février 1998).
 - Conférence invitée au GT3 du GDR ISIS - Modèles déformables dynamiques (22 Novembre 1999).
 - Colloquium du CEREMADE (27 Mars 2001).
 - INRIA Sophia Antipolis (6 Novembre 2001).
 - Technion, Haifa et Tel Aviv University (15 et 16 Janvier 2002).
 - Laboratoire Jacques-Louis Lions, Paris 6, (9 Avril 2002).
 - McGill University et University of Ottawa, Canada (Aout 2002)
 - University of South Florida, et University of Central Florida, USA (Décembre 2002)
 - INRIA Sophia Antipolis (21 Juillet 2003).
 - Conférence invitée, Réunion plénière du GDR ISIS (11 Décembre 2003).
 - CMAP, Ecole Polytechnique (20 Janvier 2004)
 - ESIEE (7 Avril 2005)
 - INRIA Sophia Antipolis (19 Juillet 2005).
 - Technion, Haifa (26 Février 2006).
 - CREATIS, INSA Lyon (24 Octobre 2007).
 - Hebrew University, Jerusalem (20 Décembre 2007);
 - UCLA, University of California, Los Angeles, Californie, USA (14 Juillet 2008);
 - University of California, Berkeley, Californie, USA (16 Juillet 2008);
 - Collège de France, (16 Janvier 2009).

- Paris 6, (17 Février 2009).
- Cogimage, Centre de Recherche de l'Institut du Cerveau et de la Moelle Epinière , (11 Janvier 2010).
- Séminaire des Mathématiques, ENS Ulm (13 Janvier 2010).
- Séminaire de Biologie, ENS Ulm (8 Mars 2010).
- Paris 6, (14 Juin 2011).
- ESIEE (16 Juin 2011)
- Imperial College (Londres) (29 Aout 2011)
- York University (3 Mai 2012)
- University of Toronto (7 Mai 2012)
- Jerusalem College of Technology (Septembre 2012)
- ETHZ, Ecole Polytechnique de Zurich (Décembre 2012)
- Stanford University, Palo Alto, Californie (Aout 2013).
- UCLA, University of California, Los Angeles, Californie, USA (12 Aout 2013);
- Chinese University of Hong Kong, Hong Kong (9 Mai 2014);
- McGill University, Canada (Aout 2015)
- CRM, Université de Montreal, Canada (Octobre 2015)
- Hebrew University, Jerusalem (21 Décembre 2015);
- TU/e Eindhoven, Pays-Bas (25 Janvier 2017)
- Hebrew University, Jerusalem (9 Janvier 2019);
- Séminaire journée Mokaplan (20 Février 2019);
- Nanjing Southeast University, Chine (28 Aout 2019);
- Séminaires invités de traitement d'images dans un cadre industriel:
 - DEC à Boston (Juin 92).
 - Schlumberger Cambridge Research (G.B.) (Septembre 93).
 - Thomson-LCR Orsay (Juin 1994).
 - IBM et Elscint (Matériel d'imagerie médicale, Octobre 94), Haifa;
 - Conférence d'ouverture du Groupe de travail sur le theme "image" au College Scientifique et Technique de Thomson-CSF (14 Mai 97)
 - Matra Cap Systèmes (22 Mai 97)
 - Elf Aquitaine Pau (23 Septembre 97)
 - Laboratoire d'électronique Philips (LEP) (4 Novembre 97)
 - Séminaire d'une journée sur les modèles déformables dans le cadre du GRECO-Transfert Industriel (26 Mars 1998).
 - SEE : Le Traitement d'images à l'aube du 21eme siecle (27 Mars 2002).
 - Algotec, Israel (15 Septembre 2008)
 - Philips, Suresnes (3 Septembre 2009)
 - EADS, Saint Cloud (12 Janvier 2010)
 - Algotec, Israel (2 Juin 2011)
 - Safran, Issy les Moulineaux (13 Juillet 2012)
 - HeartFlow, Redwood city, California (5 Aout 2013)
 - Smiths Detection, Vitry-Sur-Seine (22 Mai 2014)
 - Huawei, Boulogne-Billancourt (3 Février 2017)
 - Philips Medical, Haifa, Israel (7 Janvier 2019) –
- Nombreuses présentations de nos travaux par des doctorants ou collaborateurs dans des séminaires ou GDR.