

## Academic Journals

- [R1] F. Dionnet, E. Marchand. Stereo Tracking and Servoing for Space Applications. *Advanced Robotics*, to appear, 2008.
- [R2] S. Segvic, A. Remazeilles, A. Diosi, F. Chaumette. A mapping and localization framework for scalable appearance-based navigation. *Computer Vision and Image Understanding*, to appear, September 2008.
- [R3] H. Hadj-Abdelkader, Y. Mezouar, P. Martinet, F. Chaumette. Catadioptric Visual Servoing From 3D Straight Lines. *IEEE Trans. on Robotics*, 24(3):652-665, June 2008.
- [R4] C. Collewet, F. Chaumette. Visual servoing based on structure from controlled motion or on robust statistics. *IEEE Trans. on Robotics*, 24(2):318-330, April 2008.
- [R5] M. Pressigout, E. Marchand. Real-Time Hybrid Tracking using Edge and Texture Information. *Int. Journal of Robotics Research, IJRR*, special joint issue IJCV/IJRR on robot and vision, 26(7):689-713, July 2007.
- [R6] A. Remazeilles, F. Chaumette, P. Gros. Asservissement visuel pour la navigation. *Traitement du Signal*, 24(3):191-209, June 2007.
- [R7] Md. Abdur Rahman, Md. Suruz Miah, Wail Gueaieb, Abdulmotaleb El Saddik. SENORA: A P2P Service Oriented Framework for Collaborative Multi-robot Sensor Network. *IEEE Sensors Journal, Special Issue on Intelligent Sensors*, , 7(5):658-666, May 2007.
- [R8] A. Remazeilles, F. Chaumette. Image-based robot navigation from an image memory. *Robotics and Autonomous Systems*, 55(4):345-356, April 2007.
- [R9] F. Chaumette, S. Hutchinson. Visual Servo Control, Part II: Advanced Approaches. *IEEE Robotics and Automation Magazine*, 14(1):109-118, March 2007.
- [R10] A.I. Comport, E. Marchand, F. Chaumette. Kinematic Sets for Real-time Robust Articulated Object Tracking. *Image and Vision Computing, IVC*, 25(3):374-391, March 2007.
- [R11] N. Mansard, F. Chaumette. Task sequencing for sensor-based control. *IEEE Trans. on Robotics*, 23(1):60-72, February 2007.

## Academic Journals (National audience)

- [M1] E. Marchand, M. Pressigout. Un panorama des techniques de suivi visuel temps-rel pour la ralit augmente. *Technique et science informatiques, TSI*, to appear, 28, 2009.

## Book Chapters

- [Ch1] F. Chaumette, S. Hutchinson. Visual servoing and visual tracking. In *Handbook of Robotics*, B. Siciliano, O. Khatib (eds.), Chap. 24, pp. 563-583, Springer, 2008.
- [Ch2] R. Tatsambon Fomena, F. Chaumette. Visual Servoing from Spheres with Paracatadioptric Cameras. In *Recent Progress in Robotics, Selected papers from ICAR'07*, S. Lee, I. Hong Suh, M. Sang Kim (eds.), pp. 199-213, LNCIS 370, Springer-Verlag, 2008.

- [Ch3] F. Chaumette. Visual servoing. In *Robot manipulators: Modeling, Performance Analysis and Control*, E. Dombre, W. Khalil (eds.), Chap. 6, pp. 279-336, ISTE, 2007.
- [Ch4] C. Doignon, F. Nageotte, B. Maurin, A. Krupa. Pose Estimation and Feature Tracking for Robot Assisted Surgery with Medical Imaging. In *Unifying Perspectives in Computational and Robot Vision*, D. Kragic, V. Kyrki (eds.), Springer Verlag, 2007.

### International Conferences

- [C1] A. Cherubini, F. Chaumette, G. Oriolo. An image-based visual servoing scheme for following paths with nonholonomic mobile robots. In *Int. Conf. on Control, Automation, Robotics and Vision, ICARCV 2008*, Hanoi, Vietnam, December 2008.
- [C2] F. Servant, E. Marchand, P. Houlier, I. Marchal. Visual planes-based simultaneous localization and model refinement for augmented reality. In *IAPR, Int. Conf. on Pattern Recognition, ICPR'08*, Tampa, Florida, December 2008.
- [C3] R. Tatsambon Fomena, F. Chaumette. Using Spherical Moments for Visual Servoing from a Special Target with Unique Projection Center Cameras. In *Int. Conf. on Control, Automation, Robotics and Vision, ICARCV 2008*, Hanoi, Vietnam, December 2008.
- [C4] M. Pressigout, E. Marchand, E. Mmin. Hybrid tracking approach using optical flow and pose estimation. In *IEEE Int. Conf. on Image Processing, ICIP'08*, San Diego, CA, October 2008.
- [C5] A. Cherubini, F. Chaumette, G. Oriolo. A position-based visual servoing scheme for following paths with nonholonomic mobile robots. In *IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, IROS 2008*, pp. 1648-1654, Nice, France, September 2008.
- [C6] C. Dune, E. Marchand, C. Collewet, C. Leroux. Active rough shape estimation of unknown objects. In *IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, IROS'08*, pp. 3622-3627, Nice, France, September 2008.
- [C7] R. Mebarki, A. Krupa, C. Collewet. Automatic Guidance of an Ultrasound Probe by Visual Servoing based on B-mode Image Moments. In *Int. Conf. on Medical Image Computing and Computer-Assisted Intervention, MICCAI'08*, New York, USA, September 2008.
- [C8] R. Tatsambon Fomena, F. Chaumette. Visual Servoing from two Special Compounds of Features using a Spherical Projection Model. In *IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, IROS'08*, pp. 3040-3045, Nice, France, September 2008.
- [C9] O. Bourquardez, N. Guenard, T. Hamel, F. Chaumette, R. Mahony, L. Eck. Kinematic visual servo controls of an X4-flyer: practical study. In *Mediterranean Conf. on Intelligent Systems and Automation, CISA'08*, Annaba, Algeria, June 2008.
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- [C12] A. Remazeilles, C. Dune, E. Marchand, C. Leroux. Vision-based grasping of unknown objects to improve disabled people autonomy. In *Robotics: Science and Systems Manipulation Workshop: Intelligence in Human Environments*, Zurich, Switzerland, June 2008.
- [C13] C. Collewet, E. Marchand, F. Chaumette. Visual servoing set free from image processing. In *IEEE Int. Conf. on Robotics and Automation, ICRA '08*, pp. 81-86, Pasadena, CA, May 2008.
- [C14] M. Marey, F. Chaumette. Analysis of Classical and New Visual Servoing Control Laws. In *IEEE Int. Conf. on Robotics and Automation, ICRA '08*, pp. 3244-3249, Pasadena, CA, May 2008.
- [C15] R. Mebarki, A. Krupa, F. Chaumette. Image Moments-based Ultrasound Visual Servoing. In *IEEE Int. Conf. on Robotics and Automation, ICRA '08*, pp. 113-119, Pasadena, CA, May 2008.
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- [C22] A. Diosi, A. Remazeilles, S. Segvic, F. Chaumette. Experimental evaluation of an urban visual path following framework. In *6th IFAC Symposium on Intelligent Autonomous Vehicles, IAV'07*, Toulouse, France, September 2007.
- [C23] S. Segvic, A. Remazeilles, A. Diosi, F. Chaumette. A framework for scalable vision-only navigation. In *Advanced Concepts for Intelligent Vision Systems, ACIVS'07*, pp. 112-124, Delft, The Netherlands, August 2007.

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- [C25] C. Dune, C. Leroux, E. Marchand. Intuitive human interactive with an arm robot for severely handicapped people - A One Click approach. In *IEEE Int. Conf. on Rehabilitation Robotics, ICORR'2007*, pp. 582-589, Noordwijk, The Netherlands, June 2007.
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- [C30] C. Doignon, F. Nageotte, B. Maurin, A. Krupa. Model-based 3-D Pose Estimation and Feature Tracking for Robot Assisted Surgery with Medical Imaging. In *From features to actions - Unifying perspectives in computational and robot vision, Workshop at the IEEE Int. Conf. on Robotics and Automation*, D. Kragic (Eds), Rome, Italy, April 2007.
- [C31] C. Dune, E. Marchand, C. Leroux. One Click Focus with Eye-in-hand/Eye-to-hand Cooperation. In *IEEE Int. Conf. on Robotics and Automation, ICRA'07*, pp. 2471-2476, Rome, Italy, April 2007.
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- [C33] N. Mansard, O. Stasse, F. Chaumette, K. Yokoi. Visually-Guided Grasping while Walking on a Humanoid Robot. In *IEEE Int. Conf. on Robotics and Automation, ICRA'07*, pp. 3041-3047, Rome, Italy, April 2007.
- [C34] E. Marchand, F. Chaumette. Fitting 3D Models on Central Catadioptric Images. In *IEEE Int. Conf. on Robotics and Automation, ICRA'07*, pp. 52-58, Rome, Italy, April 2007.
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- [C38] H. Tran, E. Marchand. Real-time keypoints matching: application to visual servoing. In *IEEE Int. Conf. on Robotics and Automation, ICRA'07*, pp. 3787-3792, Rome, Italy, April 2007.

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- [M1] F. Chaumette, N. Andreff. Quoi de neuf en asservissement visuel depuis les JNRR'03 ?. In *Journées Nationales de la Recherche en Robotique, JNRR'07*, Obernai, October 2007.
- [M2] E. Marchand. Environnements logiciels pour la perception et l'action en robotique. In *Journées Nationales de la Recherche en Robotique, JNRR'07*, Obernai, October 2007.

### National Conferences

- [CN1] C. Collewet, E. Marchand, F. Chaumette. Asservissement visuel bas sur des informations photométriques. In *16e congrs francophone AFRIF-AFIA Reconnaissance des Formes et Intelligence Artificielle, RFIA'08*, Amiens, France, January 2008.
- [CN2] E. Marchand. Positionnement relatif d'une caméra et d'une source lumineuse en utilisant les gradients d'intensité de l'image. In *16e congrs francophone AFRIF-AFIA Reconnaissance des Formes et Intelligence Artificielle, RFIA'08*, Amiens, France, January 2008.
- [CN3] M. Marey, F. Chaumette. Analyse de lois de commande d'asservissement visuel. In *16e congrs francophone AFRIF-AFIA Reconnaissance des Formes et Intelligence Artificielle, RFIA'08*, Amiens, France, January 2008.
- [CN4] F. Servant, E. Marchand, P. Houlier, I. Marchal. SLAM monoculaire contraint par des plans. In *Journées de l'Association Française de Robotique Virtuelle, Augmente, Mixte et Interaction 3D (AFRV)*, Luminy, France, October 2007.

### Research Reports

- [RR1] C. Collewet, E. Marchand. Photometric Visual Servoing. Rapport de recherche INRIA, No 6631, September 2008.
- [RR2] N. Mansard, A. Remazeilles, F. Chaumette. Continuity of varying-feature-set control laws. Rapport de recherche IRISA, No 1864, September 2007.
- [RR3] O. Bourquardez, R. Mahony, N. Guenard, F. Chaumette, T. Hamel, L. Eck. Kinematic Visual Servo Control of a Quadrotor aerial vehicle. Rapport de recherche IRISA, No 1858, July 2007.

## Misc

- [M1] F. Janabi-Sharifi, F. Chaumette. Guest Editorial on the Special Issue on Visual Servoing, Int. Journal of Optomechatronics, 2(3), September 2008.
- [M2] A. Diosi, F. Spindler, A. Remazeilles, S. Segvic, F. Chaumette. Visual path following using only monocular vision, IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (video session), IROS'07, pp. 2563-2564, San Diego, CA, October 2007.
- [M3] C. Dune, E. Marchand, C. Leroux. Reconstruction active de surfaces implicites base contours, Journées Nationales de la Recherche en Robotique, JNRR'07, (session poster), Obernai, October 2007.
- [M4] R. Tatsambon Fomena, F. Chaumette. Asservissement visuel par rapport une sphère marquée, Journées Nationales de la Recherche en Robotique, JNRR'07, (session poster), Obernai, October 2007.
- [M5] C. Dune, E. Marchand, C. Leroux. Coopération multi-caméras pour la recherche puis le positionnement par rapport un objet, Congrès francophone des jeunes chercheurs en vision par ordinateur, ORASIS'07, Obernai, June 2007.
- [M6] R. Tatsambon Fomena, F. Chaumette. Utilisation du modèle de projection sphérique pour l'asservissement visuel de sphères, Congrès francophone des jeunes chercheurs en vision par ordinateur, ORASIS'07, Obernai, June 2007.
- [M7] O. Stasse, B. Verrelst, A.J. Davison, N. Mansard, B. Vanderborght, C. Esteves, F. Saidi, K. Yokoi. Integrating vision and walking to increase humanoid autonomy, IEEE Int. Conf. on Robotics and Automation (video session), ICRA'07, pp. 2772-2773, Rome, Italy, April 2007.
- [M8] N. Mansard, O. Stasse, F. Chaumette, K. Yokoi. Saisie guidée par la vision pendant la marche d'un robot humanoïde, 2<sup>de</sup> Journées Nationales de la Robotique Humanoïde, JNRH'07, Montpellier, France, March 2007.

## PhD Thesis

- [T1] C. Collewet. *Vers des asservissements visuels sur des scènes inconnues*. Habilitation à diriger les recherches de l'Université de Rennes 1, September 2008.
- [T2] O. Bourquardez. *Commande d'engins volants par asservissement visuel*. Thèse de l'Université de Rennes 1, Traitement du signal et télécommunications, February 2008.