

Thierry Fraichard — Publications

December 8, 2017

Publication Type	Count
International Journals	18
Popular Journals	4
Book Chapters	13
Editorial Works	2
Peer-Reviewed International Conferences	79
International Conferences	16
Total	132

Table 1: Publication count by type.

Table 1 summarizes my publications by type. The results of my work have been regularly published in the main international conferences in Robotics, *e.g.* *IEEE Int. Conf. on Robotics and Automation* (ICRA) and *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems* (IROS). I have also published chapters in reference book series, *e.g.* Springer *Lecture Notes in Computer Science* (LNCS) and *Springer Tracts in Advanced Robotics* (STAR), and articles in the top international journals in the Robotics field, *e.g.* *Int. Journal of Robotics Research* (IJRR), *IEEE Trans. on Robotics* (TRO) and *Autonomous Robots* (AURO).

Scientific Journal Articles

- [1] S. Bouraine, T. Fraichard, and O. Azouaoui. “New Path Planning Approach for Mobile Robots in Dynamic Environments”. In: *EL MIR’AT Sciences* (2017). Selected from 2016 Conf. on Computing Systems and Applications (CSA).
- [2] S. Bouraine, T. Fraichard, and H. Salhi. “Provably Safe Navigation for Mobile Robots with Limited Field-of-Views in Dynamic Environments”. In: *Autonomous Robots* 32.3 (Apr. 2012), pp. 267–283. DOI: 10.1007/s10514-011-9258-8. URL: <http://hal.inria.fr/hal-00733913>.
- [3] T. Fraichard and J. Kuffner. “Guaranteeing Motion Safety for Robots”. In: *Autonomous Robots* 32.3 (Apr. 2012), pp. 173–175. DOI: 10.1007/s10514-012-9278-z. URL: <http://hal.inria.fr/hal-00733712>.
- [4] T. Fraichard and V. Delsart. “Navigating Dynamic Environments with Trajectory Deformation”. In: *Computing and Information Technology* 17.1 (Mar. 2009), pp. 27–36. URL: <http://hal.inria.fr/inria-00308453>.
- [5] K. Macek, D. Vasquez, T. Fraichard, and R. Siegwart. “Towards Safe Vehicle Navigation in Dynamic Urban Scenarios”. In: *Automatika* 50.3-4 (Nov. 2009), pp. 184–194. URL: <http://hal.inria.fr/inria-00447452>.
- [6] D. Vasquez, T. Fraichard, and C. Laugier. “Growing Hidden Markov Models: a Tool for Incremental Learning and Prediction of Motion”. In: *Int. J. Robotics Res.* 28.11-12 (Nov. 2009), pp. 1486–1506. DOI: 10.1177/0278364909342118. URL: <http://hal.inria.fr/inria-00430582>.
- [7] D. Vasquez, T. Fraichard, and C. Laugier. “Incremental Learning of Statistical Motion Patterns with Growing Hidden Markov Models”. In: *IEEE Trans. Intelligent Transportation Systems* 10.3 (Sept. 2009), pp. 403–416. DOI: 10.1109/TITS.2009.2020208. URL: <http://hal.inria.fr/inria-00379444>.
- [8] R. Benenson, S. Petti, T. Fraichard, and M. Parent. “Toward Urban Driverless Vehicles”. In: *Int. J. Vehicle Autonomous Systems* 6.1-2 (2008), pp. 4–23. DOI: 10.1504/IJVAS.2008.016486. URL: <http://hal.inria.fr/inria-00115112>.
- [9] J. Burtle, T. Fraichard, and O. Aycard. “Robust Navigation Using Markov Models”. In: *Advanced Robotic Systems* 5.2 (June 2008), pp. 209–221. DOI: 10.5772/10691. URL: <http://hal.inria.fr/inria-00259299>.
- [10] C. Laugier, D. Vasquez, M. Yguel, T. Fraichard, and O. Aycard. “Geometric and Bayesian Models for Safe Navigation in Dynamic Environments”. In: *Intelligent Service Robotics* 1.1 (Jan. 2008), pp. 51–72. DOI: 10.1007/s11370-007-0004-1. URL: <http://hal.inria.fr/inria-00180741>.
- [11] D. Vasquez, T. Fraichard, O. Aycard, and C. Laugier. “Intentional Motion On-Line Learning and Prediction”. In: *Machine Vision and Applications* 19.5-6 (Oct. 2008), pp. 411–425. DOI: 10.1007/s00138-007-0116-9. URL: <http://hal.inria.fr/inria-00181663>.

- [12] C. Coué, C. Pradalier, C. Laugier, T. Fraichard, and P. Bessière. “Bayesian Occupancy Filtering for Multi-Target Tracking: an Automotive Application”. In: *Int. J. Robotics Res.* 25.1 (Jan. 2006), pp. 19–30. DOI: 10.1177/0278364906061158. URL: <http://hal.inria.fr/inria-00182004>.
- [13] T. Fraichard and H. Asama. “Inevitable Collision States. A Step Towards Safer Robots?” In: *Advanced Robotics* 18.10 (2004), pp. 1001–1024. DOI: 10.1163/1568553042674662. URL: <http://hal.inria.fr/inria-00182063>.
- [14] T. Fraichard and A. Scheuer. “From Reeds and Shepp’s to Continuous-Curvature Paths”. In: *IEEE Trans. Robotics* 20.6 (Dec. 2004), pp. 1025–1035. DOI: 10.1109/TR0.2004.833789. URL: <http://hal.inria.fr/inria-00000009>.
- [15] T. Fraichard and Ph. Garnier. “Fuzzy Control to Drive Car-Like Vehicles”. In: *Robotics and Autonomous Systems* 34.1 (Jan. 2001), pp. 1–22. DOI: 10.1016/S0921-8890(00)00096-8. URL: <http://hal.inria.fr/inria-00259314>.
- [16] C. Laugier, T. Fraichard, Ph. Garnier, I. E. Paromtchik, and A. Scheuer. “Sensor-Based Control Architecture for a Car-Like Vehicle”. In: *Autonomous Robots* 6.2 (Apr. 1999), pp. 165–185. DOI: 10.1023/A:1008835527875. URL: <http://hal.inria.fr/inria-00259323>.
- [17] T. Fraichard. “Trajectory Planning Amidst Moving Obstacles: Path-Velocity Decomposition Revisited”. In: *J. Braz. Comp. Soc.* 4.3 (Apr. 1998). Special Issue on Robotics and Computer Vision. DOI: 10.1590/S0104-65001998000100002. URL: <http://hal.inria.fr/inria-00259326>.
- [18] T. Fraichard. “Trajectory Planning in a Dynamic Workspace: a State-Time Space Approach”. In: *Advanced Robotics* 13.1 (1998), pp. 75–94. DOI: 10.1163/156855399X00928. URL: <http://hal.inria.fr/inria-00259321>.

Popular Journal Articles

- [19] Thierry Fraichard. “Will the driver Seat Ever be Empty?” In: *ERCIM News* 109 (Apr. 2017). URL: <https://hal.inria.fr/hal-01499572>.
- [20] T. Fraichard. “Cybercar: l’alternative à la voiture particulière”. In: *Navigation (Paris)* 53.209 (Jan. 2005). URL: <http://hal.inria.fr/inria-00001074>.
- [21] T. Fraichard. “Motion Planning for Autonomous Car-like Vehicles”. In: *ERCIM News* 42 (July 2000). URL: <http://hal.inria.fr/inria-00259319>.
- [22] T. Fraichard and I. Mazon. “Projet Sharp: Robotique en Environnement Réel”. In: *Bulletin de l’Association Française d’Intelligence Artificielle* 27 (Nov. 1996). URL: <http://hal.inria.fr/inria-00259334>.

Book Chapters

- [23] T. Fraichard and T. Howard. “Iterative Motion Planning and Safety Issue”. In: *Handbook of Intelligent Vehicles*. Ed. by A. Eskandarian. Springer, 2012, pp. 1433–1458. DOI: 10.1007/978-0-85729-085-4_55. URL: <http://hal.inria.fr/hal-00768956>.
- [24] D. Vasquez, T. Fraichard, and C. Laugier. “Incremental Learning of Statistical Motion Patterns with Growing Hidden Markov Models”. In: *Robotics Research*. Ed. by M. Kaneko and Y. Nakamura. Vol. 66. Springer Tracts in Advanced Robotics Series. Springer, 2011. DOI: 10.1007/978-3-642-14743-2. URL: <http://hal.inria.fr/inria-00584320>.
- [25] G. Chen and T. Fraichard. “An Architecture for Automated Driving in Urban Environments”. In: *Field and Service Robotics*. Ed. by C. Laugier and R. Siegwart. Vol. 42. Springer Tracts in Advanced Robotics Series. Springer, 2008. DOI: 10.1007/978-3-540-75404-6_55. URL: <http://hal.inria.fr/inria-00176984>.
- [26] V. Delsart and T. Fraichard. “Reactive Trajectory Deformation to Navigate Dynamic Environments”. In: *European Robotics Symposium 2008*. Ed. by H. Bruyninckx, L. Preucil, and M. Kulich. Vol. 44. Springer Tracts in Advanced Robotics Series. Springer, 2008, pp. 233–241. DOI: 10.1007/978-3-540-78317-6_24. URL: <http://hal.inria.fr/inria-00258973>.
- [27] M. Tay, K. Mekhnacha, M. Yguel, C. Coué, C. Pradalier, C. Laugier, T. Fraichard, and P. Bessière. “The Bayesian Occupation Filter”. In: *Probabilistic Reasoning and Decision Making in Sensory-Motor Systems*. Ed. by P. Bessiere, C. Laugier, and R. Siegwart. Vol. 46. Springer Tracts in Advanced Robotics Series. Springer, 2008, pp. 77–98. DOI: 10.1007/978-3-540-79007-5_4. URL: <http://hal.inria.fr/inria-00295084>.

- [28] C. Laugier, S. Petti, D. Vasquez, M. Yguel, T. Fraichard, and O. Aycard. “Steps Towards Safe Navigation in Open and Dynamic Environments”. In: *Autonomous Navigation in Dynamic Environments*. Ed. by C. Laugier and R. Chatila. Vol. 35. Springer Tracts in Advanced Robotics Series. Springer, 2007, pp. 55–82. DOI: 10.1007/978-3-540-73422-2_3. URL: <http://hal.inria.fr/inria-00182029>.
- [29] D. Vasquez, T. Fraichard, O. Aycard, and C. Laugier. “Intentional Motion Online Learning and Prediction”. In: *Field and Service Robotics*. Ed. by P. Corke and S. Sukkarieh. Vol. 25. Springer Tracts in Advanced Robotics Series. Springer, 2006, pp. 305–316. DOI: 10.1007/978-3-540-33453-8_26.
- [30] C. Laugier and T. Fraichard. “Decisional Architectures for Motion Autonomy”. In: *Intelligent Vehicle Technologies: Theory and Applications*. Ed. by L. Vlacic, F. Harashima, and M. Parent. Automotive Engineering Series. Butterworth-Heinemann, 2001. Chap. 11, pp. 333–391.
- [31] T. Fraichard and R. Mermond. “Path Planning with Kinematic and Uncertainty Constraints”. In: *Intelligent Autonomous Systems*. Ufa University Press, 1998, pp. 30–37.
- [32] C. Laugier, P. Garnier, T. Fraichard, I. Paromtchik, and A. Scheuer. “Motion Planning and Sensor-Guided Manoeuvre Generation for an Autonomous Vehicle”. In: *Field and Service Robotics*. Ed. by A. Zelinsky. Springer, 1998, pp. 60–78. DOI: 10.1007/978-1-4471-1273-0_11.
- [33] A. Scheuer and T. Fraichard. “Continuous-Curvature Path Planning for Car-Like Vehicles”. In: *Intelligent Autonomous Systems*. Ufa University Press, 1998, pp. 46–55.
- [34] T. Fraichard and C. Laugier. “Kinodynamic Planning in a Structured and Time-Varying Workspace”. In: *Geometric Reasoning for Perception and Action*. Ed. by C. Laugier. Vol. 708. Lecture Notes in Computer Science. Springer, 1993, pp. 19–37. DOI: 10.1007/3-540-57132-9_2.
- [35] T. Fraichard and Y. Demazeau. “Motion Planning in a Multi-Agent World”. In: *Decentralized A.I.* Ed. by Y. Demazeau and J.P. Muller. North-Holland, 1990, pp. 137–153.

Editorial Works

- [36] T. Fraichard and J. Kuffner, eds. *Special Issue: Motion Safety for Robots*. Vol. 32. Autonomous Robots 3. Apr. 2012.
- [37] T. Fraichard and C. Laugier, eds. *Proc. of the European Prometheus Workshop on Intelligent Co-Pilot*. Grenoble (FR), Dec. 1991.

Peer-Reviewed Conference Articles

- [38] M. Ciocca, P.-B. Wieber, and T. Fraichard. “Strong Recursive Feasibility in Model Predictive Control of Biped Walking”. In: *IEEE Int. Conf. on on Humanoid Robots (HUMANOIDS)*. Birmingham (UK), Nov. 2017. URL: <https://hal.inria.fr/hal-01618881>.
- [39] J.G. Da Silva Filho and T. Fraichard. “Human Robot Motion: A Shared Effort Approach”. In: *European Conf. on Mobile Robotics (ECMR)*. Paris (FR), Sept. 2017. URL: <https://hal.inria.fr/hal-01565873>.
- [40] S. Bouraine, T. Fraichard, and O. Azouaoui. “Real-time Safe Path Planning for Robot Navigation in Unknown Dynamic Environments”. In: *Conf. on Computing Systems and Applications (CSA)*. Algiers (DZ), Dec. 2016. URL: <https://hal.inria.fr/hal-01400075>.
- [41] M. Bouguerra, T. Fraichard, and M. Fezari. “Safe Motion Using Viability Kernel”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Seattle (US), May 2015. URL: <http://hal.inria.fr/hal-01143861>.
- [42] T. Fraichard. “Motion Safety with People: an Open Problem”. In: *ICRA Tutorial on Planning, Control, and Sensing for Safe Human-Robot Interaction*. Seattle (US), May 2015. URL: <https://hal.inria.fr/hal-01153044>.
- [43] S. Bouraine, T. Fraichard, O. Azouaoui, and H. Salhi. “Passively Safe Partial Motion Planning for Mobile Robots with Limited Field-of-Views in Unknown Dynamic Environments”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Hong Kong (CN), June 2014. DOI: 10.1109/ICRA.2014.6907375. URL: <http://hal.inria.fr/hal-01018463>.
- [44] T. Fraichard, R. Paulin, and P. Reignier. “Human-Robot Motion: An Attention-Based Navigation Approach”. In: *IEEE Int. Symp. on Robot and Human Interactive Communication (RO-MAN)*. Best Paper Award Nominee. Edinburgh (UK), Aug. 2014. DOI: 10.1109/ROMAN.2014.6926332. URL: <http://hal.inria.fr/hal-01018471>.

- [45] S. Bouraine, T. Fraichard, and H. Salhi. “Provably Safe Navigation for Mobile Robots with Limited Field-of-Views in Unknown Dynamic Environments”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Saint Paul (US), May 2012. DOI: 10.1109/ICRA.2012.6224932. URL: <http://hal.inria.fr/hal-00768527>.
- [46] O. Aycard, T.-D. Vu, Q. Baig, and T. Fraichard. “A Generic Architecture for Embedded Perception in Dynamic Outdoor Environment”. In: *IEEE Int. Conf. on Tools with Artificial Intelligence (ICTAI)*. Boca Raton (US), Nov. 2011. DOI: 10.1109/ICTAI.2011.93. URL: <http://hal.inria.fr/inria-00625492>.
- [47] Q. Baig, O. Aycard, T.-D. Vu, and T. Fraichard. “Fusion Between Laser and Stereo Vision Data For Moving Objects Tracking In Intersection Like Scenario”. In: *IEEE Intelligent Vehicles Symp. (IV)*. Baden Baden (DE), June 2011. DOI: 10.1109/IVS.2011.5940576. URL: <http://hal.inria.fr/00625511>.
- [48] S. Bouraine, T. Fraichard, and H. Salhi. “Relaxing the Inevitable Collision State Concept to Address Provably Safe Mobile Robot Navigation with Limited Field-of-Views in Unknown Dynamic Environments”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. San Francisco (US), Sept. 2011. DOI: 10.1109/IROS.2011.6094901. URL: <http://hal.inria.fr/inria-00616953>.
- [49] L. Scandolo and T. Fraichard. “An Anthropomorphic Navigation Scheme for Dynamic Scenarios”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Shanghai (CN), May 2011. DOI: 10.1109/ICRA.2011.5979772. URL: <http://hal.inria.fr/inria-00563693>.
- [50] A. Bautin, L. Martinez-Gomez, and T. Fraichard. “Inevitable Collision States: a Probabilistic Perspective”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Anchorage (US), May 2010. DOI: 10.1109/ROBOT.2010.5509233. URL: <http://hal.inria.fr/inria-00546366>.
- [51] V. Delsart and T. Fraichard. “Tiji, a Generic Trajectory Generation Tool for Motion Planning and Control”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Taipei (TW), Oct. 2010. DOI: 10.1109/IROS.2010.5648826. URL: <http://hal.inria.fr/inria-00526671>.
- [52] F. Moosmann and T. Fraichard. “Motion Estimation from Range Images in Dynamic Outdoor Scenes”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Anchorage (US), May 2010. DOI: 10.1109/ROBOT.2010.5509381. URL: <http://hal.inria.fr/inria-00562251>.
- [53] V. Delsart, T. Fraichard, and L. Martinez-Gomez. “Real-Time Trajectory Generation for Car-Like Vehicles Navigating Dynamic Environments”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Kobe (JP), May 2009. DOI: 10.1109/ROBOT.2009.5152537. URL: <http://hal.inria.fr/inria-00361328>.
- [54] L. Martinez-Gomez and T. Fraichard. “Benchmarking Collision Avoidance Schemes for Dynamic Environments”. In: *ICRA Workshop on Safe Navigation in Open and Dynamic Environments*. Kobe (JP), May 2009. URL: <http://hal.inria.fr/inria-00379236>.
- [55] L. Martinez-Gomez and T. Fraichard. “Collision Avoidance in Dynamic Environments: an ICS-Based Solution and Its Comparative Evaluation”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Kobe (JP), May 2009. DOI: 10.1109/ROBOT.2009.5152536. URL: <http://hal.inria.fr/inria-00361324>.
- [56] R. Benenson, T. Fraichard, and Parent. M. “Achievable Safety of Driverless Ground Vehicles”. In: *IEEE Int. Conf. on Control, Automation, Robotics and Vision (ICARCV)*. Hanoi (VN), Dec. 2008. DOI: 10.1109/ICARCV.2008.4795572. URL: <http://hal.inria.fr/inria-00294750>.
- [57] V. Delsart and T. Fraichard. “Navigating Dynamic Environments Using Trajectory Deformation”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Nice (FR), Sept. 2008. DOI: 10.1109/IROS.2008.4650639. URL: <http://hal.inria.fr/inria-00293505>.
- [58] V. Delsart and T. Fraichard. “Reactive Trajectory Deformation to Navigate Dynamic Environments”. In: *European Robotics Symp.* Prague (CZ), Mar. 2008. URL: <http://hal.inria.fr/inria-00258976>.
- [59] K. Macek, D. Vasquez, T. Fraichard, and R. Siegwart. “Safe Vehicle Navigation in Dynamic Urban Environments: a Hierarchical Approach”. In: *IROS Workshop on Planning, Perception and Navigation for Intelligent Vehicles*. Nice (FR), Sept. 2008. URL: <http://hal.inria.fr/inria-00308454>.
- [60] K. Macek, D. Vasquez, T. Fraichard, and R. Siegwart. “Safe Vehicle Navigation in Dynamic Urban Scenarios”. In: *IEEE Intelligent Transportation Systems Conf. (ITSC)*. Beijing (CN), Oct. 2008. DOI: 10.1109/ITSC.2008.4732685. URL: <http://hal.inria.fr/inria-00326267>.
- [61] L. Martinez-Gomez and T. Fraichard. “An Efficient and Generic 2D Inevitable Collision State-Checker”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Nice (FR), Sept. 2008. DOI: 10.1109/IROS.2008.4650640. URL: <http://hal.inria.fr/inria-00293508>.
- [62] G. Chen and T. Fraichard. “A Real-Time Navigation Architecture for Automated Vehicles in Urban Environments”. In: *IEEE Intelligent Vehicles Symp. (IV)*. Istanbul (TR), June 2007. DOI: 10.1109/IVS.2007.4290285. URL: <http://hal.inria.fr/inria-00140528>.

- [63] G. Chen and T. Fraichard. “An Architecture for Automated Driving in Urban Environments”. In: *Field and Service Robotics (FSR)*. Chamonix (FR), July 2007. URL: <http://hal.inria.fr/inria-00150371>.
- [64] G. Chen, T. Fraichard, and L. Martinez-Gomez. “A Real-Time Autonomous Navigation Architecture”. In: *IFAC Symp. on Intelligent Autonomous Vehicles (IAV)*. Toulouse (FR), Sept. 2007. URL: <http://hal.inria.fr/inria-00150375>.
- [65] T. Fraichard. “A Short Paper about Motion Safety”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Roma (IT), Apr. 2007. DOI: 10.1109/ROBOT.2007.363138. URL: <http://hal.inria.fr/inria-00134467>.
- [66] H. Kurniawati and T. Fraichard. “From Path to Trajectory Deformation”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. San Diego (US), Oct. 2007. DOI: 10.1109/IROS.2007.4399235. URL: <http://hal.inria.fr/inria-00173488>.
- [67] R. Parthasarathi and T. Fraichard. “An Inevitable Collision State-Checker for a Car-Like Vehicle”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Roma (IT), Apr. 2007. DOI: 10.1109/ROBOT.2007.363938. URL: <http://hal.inria.fr/inria-00134471>.
- [68] D. Vasquez, T. Fraichard, and C. Laugier. “Incremental Learning of Statistical Motion Patterns with Growing Hidden Markov Models”. In: *Int. Symp. of Robotics Research (ISRR)*. Hiroshima (JP), Nov. 2007. URL: <http://hal.inria.fr/inria-00294981>.
- [69] O. Aycard, A. Spalanzani, M. Yguel, J. Bурlet, T. Fraichard, C. Laugier, and D. Raulo. “PUVAME - New French Approach for Vulnerable Road Users Safety”. In: *IEEE Intelligent Vehicles Symp. (IV)*. Tokyo (JP), June 2006. DOI: 10.1109/IVS.2006.1689596. URL: <http://hal.inria.fr/inria-00182026>.
- [70] R. Benenson, S. Petti, T. Fraichard, and M. Parent. “Integrating Perception and Planning for Autonomous Navigation of Urban Vehicles”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Beijing (CN), Oct. 2006. DOI: 10.1109/IROS.2006.281806. URL: <http://hal.inria.fr/inria-00086286>.
- [71] L. Bouraoui, S. Petti, A. Laouiti, T. Fraichard, and M. Parent. “Cybercar Cooperation for Safe Intersections”. In: *IEEE Intelligent Transportation Systems Conf. (ITSC)*. Toronto (CA), Sept. 2006. DOI: 10.1109/ITSC.2006.1706783. URL: <http://hal.inria.fr/inria-00182006>.
- [72] D. Vasquez and T. Fraichard. “A Novel Self-Organizing Network to Perform Fast Moving Object Extraction from Video Streams”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Beijing (CN), Oct. 2006. DOI: 10.1109/IROS.2006.282439. URL: <http://hal.inria.fr/inria-00181999>.
- [73] D. Vasquez, F. Romanelli, T. Fraichard, and C. Laugier. “Fast Object Extraction from Bayesian Occupancy Grids Using Self Organizing Networks”. In: *IEEE Int. Conf. on Control, Automation, Robotics and Vision (ICARCV)*. Singapore, Dec. 2006. URL: <http://hal.inria.fr/inria-00182011>.
- [74] J. Bурlet, T. Fraichard, and O. Aycard. “Robust Navigation Using Markov Models”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Edmonton (CA), Aug. 2005. DOI: 10.1109/IROS.2005.1545091. URL: <http://hal.inria.fr/inria-00182045>.
- [75] S. Petti and T. Fraichard. “Partial Motion Planning Framework for Reactive Planning Within Dynamic Environments”. In: *IFAC/AAAI Int. Conf. on Informatics in Control, Automation and Robotics (ICINCO)*. Barcelona (ES), Sept. 2005. URL: <http://hal.inria.fr/inria-00182043>.
- [76] S. Petti and T. Fraichard. “Reactive Planning under Uncertainty among Moving Obstacles”. In: *IFR Int. Symp. on Robotics (ISR)*. Tokyo (JP), Nov. 2005. URL: <http://hal.inria.fr/inria-00182044>.
- [77] S. Petti and T. Fraichard. “Safe Motion Planning in Dynamic Environments”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Edmonton (CA), Aug. 2005. URL: <http://hal.inria.fr/inria-00182046>.
- [78] S. Petti and T. Fraichard. “Safe Navigation of a Car-Like Robot in a Dynamic Environment”. In: *European Conf. on Mobile Robotics (ECMR)*. Ancona (IT), Sept. 2005. URL: <http://hal.inria.fr/inria-00182047>.
- [79] D. Vasquez, T. Fraichard, O. Aycard, and C. Laugier. “Intentional Motion On-Line Learning and Prediction”. In: *Field and Service Robotics (FSR)*. Port Douglas (AU), July 2005. URL: <http://hal.inria.fr/inria-00182039>.
- [80] J. Bурlet, O. Aycard, and T. Fraichard. “Robust Motion Planning using Markov Decision Processes and Quadtree Decomposition”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. New Orleans (US), Apr. 2004. DOI: 10.1109/ROBOT.2004.1307488. URL: <http://hal.inria.fr/inria-00182070>.
- [81] F. Large, D. Vasquez, T. Fraichard, and C. Laugier. “Avoiding Cars and Pedestrians using V-Obstacles and Motion Prediction”. In: *IEEE Intelligent Vehicles Symp. (IV)*. Pisa (IT), June 2004. DOI: 10.1109/IVS.2004.1336412. URL: <http://hal.inria.fr/inria-00182054>.

- [82] O. Lefebvre, F. Lamiroux, C. Pradalier, and T. Fraichard. “Obstacles Avoidance for Car-Like Robots. Integration and Experimentation on Two Robots”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. New Orleans (US), Apr. 2004. DOI: 10.1109/ROBOT.2004.1302390. URL: <http://hal.inria.fr/inria-00182068>.
- [83] D. Vasquez and T. Fraichard. “Motion Prediction for Moving Objects: a Statistical Approach”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. New Orleans (US), Apr. 2004. DOI: 10.1109/ROBOT.2004.1308883. URL: <http://hal.inria.fr/inria-00182066>.
- [84] D. Vasquez, F. Large, T. Fraichard, and C. Laugier. “High-Speed Autonomous Navigation with Motion Prediction for Unknown Moving Obstacles”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Sendai (JP), Oct. 2004. DOI: 10.1109/IROS.2004.1389333. URL: <http://hal.inria.fr/inria-00182062>.
- [85] D. Vasquez, F. Large, T. Fraichard, and C. Laugier. “Moving Obstacles’ Motion Prediction for Autonomous Navigation”. In: *IEEE Int. Conf. on Control, Automation, Robotics and Vision (ICARCV)*. Kunming (CN), Dec. 2004. DOI: 10.1109/ICARCV.2004.1468814. URL: <http://hal.inria.fr/inria-00182067>.
- [86] C. Coué, T. Fraichard, P. Bessière, and E. Mazer. “Using Bayesian Programming for Multi-Sensor Multi-Target Tracking in Automotive Applications”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Taipei (TW), May 2003. DOI: 10.1109/ROBOT.2003.1241904. URL: <http://hal.archives-ouvertes.fr/hal-00068773>.
- [87] C. Coué, C. Pradalier, C. Laugier, and T. Fraichard. “Bayesian Programming for Multi-Target Tracking: an Automotive Application”. In: *Field and Service Robotics (FSR)*. Yamanashi (JP), July 2003.
- [88] T. Fraichard and H. Asama. “Inevitable Collision States. A Step Towards Safer Robots?” In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Las Vegas (US), Oct. 2003. DOI: 10.1109/IROS.2003.1250659. URL: <http://hal.inria.fr/inria-00182082>.
- [89] C. Coué C., T. Fraichard, P. Bessière, and E. Mazer. “Using Bayesian Programming for Multi-Sensor Data Fusion in Automotive Applications”. In: *IEEE Intelligent Vehicles Symp. (IV)*. Versailles (FR), June 2002. DOI: 10.1109/IVS.2002.1187989. URL: <http://hal.archives-ouvertes.fr/hal-00068686>.
- [90] C. Coué, T. Fraichard, P. Bessière, and E. Mazer. “Multi-Sensor Data Fusion Using Bayesian Programming: an Automotive Application”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Lausanne (SW), Oct. 2002. DOI: 10.1109/IRDS.2002.1041379. URL: <http://hal.archives-ouvertes.fr/hal-00068793>.
- [91] T. Fraichard and J.-M. Ahuactzin. “Smooth Path Planning for Cars”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Seoul (KR), May 2001. DOI: 10.1109/ROBOT.2001.933197.
- [92] T. Fraichard and A. Lambert. “Planning Safe Paths for Nonholonomic Car-Like Robots Navigating Through Computed Landmarks”. In: *Int. Conf. on Intelligent Autonomous Systems (IAS)*. Venice (IT), July 2000.
- [93] D. Guo, T. Fraichard, M. Xie, and C. Laugier. “Color Modeling by Spherical Influence Field in Sensing Driving Environment”. In: *IEEE Intelligent Vehicles Symp. (IV)*. Dearborn (US), Oct. 2000.
- [94] A. Lambert and T. Fraichard. “Landmark-Based Safe Path Planning for Car-Like Robots”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. San Francisco (US), Apr. 2000. DOI: 10.1109/ROBOT.2000.846330.
- [95] J. Langheim et al. “Sensing of car environment at low speed driving”. In: *Intelligent Transport Systems World Congress (ITS)*. Torino (IT), Nov. 2000.
- [96] T. Fraichard, A. Scheuer, and R. Desvigne. “From Reeds And Shepp’s to Continuous-Curvature Paths”. In: *IEEE Int. Conf. on Advanced Robotics (ICAR)*. Tokyo, Oct. 1999.
- [97] T. Fraichard and R. Mermond. “Integrating Uncertainties and Landmarks in Path Planning for Car-Like Robots”. In: *IFAC Symp. on Intelligent Autonomous Vehicles*. Madrid (ES), Mar. 1998.
- [98] T. Fraichard and R. Mermond. “Path Planning with Uncertainty for Car-Like Robots”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Leuven (BE), May 1998. DOI: 10.1109/ROBOT.1998.676244.
- [99] C. Laugier, T. Fraichard, I. E. Paromtchik, and P. Garnier. “Sensor-Based Control Architecture for a Car-Like Vehicle”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Victoria (CA), Oct. 1998. DOI: 10.1109/IROS.1998.724622.
- [100] C. Laugier, Ph. Garnier, T. Fraichard, I. E. Paromtchik, and A. Scheuer. “Motion Planning and Sensor-Guided Manoeuvre Generation for an Autonomous Vehicle”. In: *Field and Service Robotics (FSR)*. Canberra (AU), Dec. 1997.

- [101] A. Scheuer and T. Fraichard. “Collision-Free and Continuous-Curvature Path Planning for Car-Like Robots”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Albuquerque (US), Apr. 1997. DOI: 10.1109/ROBOT.1997.620143.
- [102] A. Scheuer and T. Fraichard. “Continuous-Curvature Path Planning for Car-Like Vehicles”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Grenoble (FR), Sept. 1997. DOI: 10.1109/IROS.1997.655130.
- [103] P. Garnier and T. Fraichard. “A Fuzzy Motion Controller for a Car-Like Vehicle”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Osaka (JP), Nov. 1996. DOI: 10.1109/IROS.1996.568967.
- [104] C. Laugier, I. E. Paromtchik, Ph. Garnier, and T. Fraichard. “Motion Control of an Autonomous Vehicle Through Sensor-Guided Manœuvres”. In: *IEEE Int. Conf. on Control, Automation, Robotics and Vision (ICARCV)*. Singapore, Dec. 1996.
- [105] A. Scheuer and T. Fraichard. “Planning Continuous-Curvature Paths for Car-Like Robots”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Osaka (JP), Nov. 1996. DOI: 10.1109/IROS.1996.568985.
- [106] T. Fraichard and A. Scheuer. “Car-Like Robots and Moving Obstacles”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. San Diego (US), May 1994. DOI: 10.1109/ROBOT.1994.351009.
- [107] T. Fraichard. “Dynamic Trajectory Planning with Dynamic Constraints: a ‘State-Time Space’ Approach”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Yokohama (JP), July 1993. DOI: 10.1109/IROS.1993.583794.
- [108] T. Fraichard and C. Laugier. “Dynamic Trajectory Planning, Path-Velocity Decomposition and Adjacent Paths”. In: *Int. Joint Conf. on Artificial Intelligence (IJCAI)*. Chambéry (FR), Sept. 1993.
- [109] T. Fraichard and C. Laugier. “Path-Velocity Decomposition Revisited and Applied to Dynamic Trajectory Planning”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Atlanta (US), May 1993. DOI: 10.1109/ROBOT.1993.292121.
- [110] T. Fraichard and C. Laugier. “Kinodynamic Planning in a Structured and Time-Varying 2D Workspace”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Nice (FR), May 1992. DOI: 10.1109/ROBOT.1992.220039.
- [111] T. Fraichard and C. Laugier. “Kinodynamic planning with moving obstacles: the case of a structured workspace”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Raleigh (US), July 1992. DOI: 10.1109/IROS.1992.594217.
- [112] T. Fraichard. “Smooth Trajectory Planning for a Car in a Structured World”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Sacramento (US), Apr. 1991. DOI: 10.1109/ROBOT.1991.131595.
- [113] T. Fraichard, M. Hassoun, and C. Laugier. “Reactive Motion Planning in a Dynamic World”. In: *IEEE Int. Conf. on Advanced Robotics (ICAR)*. Pisa (IT), June 1991. DOI: 10.1109/ICAR.1991.240421.
- [114] T. Fraichard and C. Laugier. “On Line Reactive Planning for a Non Holonomic Mobile in a Dynamic World”. In: *IEEE Int. Conf. on Robotics and Automation (ICRA)*. Sacramento (US), Apr. 1991. DOI: 10.1109/ROBOT.1991.131616.
- [115] T. Fraichard, C. Laugier, and G. Liévin. “Robot Motion Planning: The Case of Non-Holonomic Mobiles in a Dynamic World”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Ibaraki (JP), July 1990. DOI: 10.1109/IROS.1990.262493.
- [116] T. Fraichard and C. Laugier. “Planning Movements for Several Coordinated Vehicles”. In: *IEEE-RSJ Int. Conf. on Intelligent Robots and Systems (IROS)*. Tsukuba (JP), Sept. 1989. DOI: 10.1109/IROS.1989.637945.

Academic Publications

- [117] T. Fraichard. “Contributions à la planification de mouvement”. Habilitation à Diriger des Recherches. Grenoble (FR): Inst. Nat. Polytechnique de Grenoble, Mar. 2006. URL: <http://tel.archives-ouvertes.fr/tel-00101623>.
- [118] T. Fraichard. “Planification de mouvement pour mobile non-holonyme en espace de travail dynamique”. Thèse de doctorat. Grenoble (FR): Inst. Nat. Polytechnique de Grenoble, Apr. 1992. URL: <http://tel.archives-ouvertes.fr/tel-00341388>.
- [119] T. Fraichard. “Un Système de Planification de Mouvement en Univers Multi-Agents”. Mémoire de Diplôme d’Etudes Approfondies. Grenoble (FR): Inst. Nat. Polytechnique de Grenoble, June 1988.

International Conference Articles

- [120] Th. Fraichard. “Motion Safety with People: an Open Problem”. In: *Tutorial on Planning, Control, and Sensing for Safe Human-Robot Interaction (in association with ICRA)*. Seattle (US), May 2015. URL: <http://hal.inria.fr/hal-01153044>.
- [121] T. Fraichard, P. Reignier, and C. Di Pietro. “Attention-Based Navigation in Human-Populated Environments”. In: *Israeli Conf. on Robotics*. Tel Aviv (IL), Nov. 2013.
- [122] T. Fraichard. “Provably Safe Navigation for Mobile Robots with Limited Field-of-Views in Dynamic Environments”. In: *Workshop on Guaranteeing Motion Safety for Robots (in association with RSS)*. Los Angeles (US), June 2011.
- [123] T. Fraichard and J. Kuffner. “Motion Safety in Dynamic Environments, an Introduction”. In: *Workshop on Guaranteeing Safe Navigation in Dynamic Environments (in association with ICRA)*. Anchorage (US), May 2010.
- [124] Z. Shiller, O. Gal, and T. Fraichard. “The Nonlinear Velocity Obstacle Revisited: the Optimal Time Horizon”. In: *Workshop on Guaranteeing Safe Navigation in Dynamic Environments (in association with ICRA)*. Anchorage (US), May 2010.
- [125] T. Fraichard. “Motion Safety for Mobile Robots”. In: *Workshop on Bayesian Approaches to Cognitive Systems*. Grenoble (FR), 2007.
- [126] T. Fraichard. “Safely Navigating Dynamic Environments”. In: *Workshop on Algorithmic Motion Planning for Autonomous Robots in Challenging Environments (in association with IROS)*. San Diego (US), Nov. 2007.
- [127] T. Fraichard. “Motion Safety in Dynamic Environments”. In: *Workshop on Safe Navigation in Open and Dynamic Environments (in association with IROS)*. Beijing (CN), Oct. 2006.
- [128] C. Laugier, S. Petti, M. Vasquez, M. Yguel, T. Fraichard, and O. Aycard. “Steps Towards Safe Navigation in Open and Dynamic Environments”. In: *Workshop on Autonomous Navigation in Dynamics Environments (in association with ICRA)*. Barcelona (ES), Apr. 2005.
- [129] Ph. Garnier, T. Fraichard, C. Laugier, I. E. Paromtchik, and A. Scheuer. “Motion Autonomy Through Sensor-Guided Manoeuvres”. In: *Workshop on Intelligent Cars and Automated Highway Systems (in association with IROS)*. Grenoble (FR), Sept. 1997.
- [130] T. Fraichard, M. Hassoun, and N. Lefort. “An Electronic Co-Pilot: the Pro-Lab II Demonstrator”. In: *European Prometheus Workshop on Collision Avoidance*. Nürtingen (DE), 1992.
- [131] T. Fraichard and C. Laugier. “Driving on the Highway”. In: *European Prometheus Workshop on Intelligent Co-Pilot*. Grenoble (FR), 1991.
- [132] T. Fraichard. “Coordination des mouvements de plusieurs véhicules en univers dynamique et structuré”. In: *Actes des journées PRC-GDR Intelligence Artificielle “Temps, Action et Planification”*. Paris (FR), 1990.
- [133] T. Fraichard. “Safe Motion Planning for Car-Like Vehicles”. In: *European Prometheus Workshop on Collision Avoidance*. Coventry (GB), 1990.
- [134] T. Fraichard. “Planning Movements for Several Coordinated Vehicles in Traffic Situation”. In: *European Prometheus Workshop*. Wolfsburg (DE), 1989.
- [135] T. Fraichard and Y. Demazeau. “Multi-Motion Planning in a Multi-Agent World”. In: *European Workshop on Modelling an Autonomous Agent in a Multi-Agent World*. Cambridge (GB), 1989.

Research Reports

- [136] T. Fraichard. *Human-Robot Motion: Taking Attention into Account*. Research Report RR-8487. INRIA, Mar. 2014. URL: <http://hal.inria.fr/hal-00965157>.
- [137] T. Fraichard. *Will the Driver Seat Ever Be Empty?* Research Report RR-8493. INRIA, Mar. 2014. URL: <http://hal.inria.fr/hal-00965176>.
- [138] H. Kurniawati and T. Fraichard. *From Path to Trajectory Deformation*. Research Report RR-6272. INRIA, Aug. 2007. URL: <http://hal.inria.fr/inria-00168148>.
- [139] T. Fraichard. *A Short Report about Motion Safety*. Research Report RR-5987. INRIA, Sept. 2006. URL: <http://hal.inria.fr/inria-00101500>.

- [140] T. Fraichard. *Trajectory Planning in Dynamic Workspace: a State-Time Space Approach*. Research Report RR-3545. INRIA, Oct. 1998. URL: <http://hal.inria.fr/inria-00073139>.
- [141] C. Laugier, T. Fraichard, Ph. Garnier, I. E. Paromtchik, and A. Scheuer. *Sensor-Based Control Architecture for a Car-Like Vehicle*. Research Report RR-3552. INRIA, Oct. 1998. URL: <http://hal.inria.fr/inria-00073131>.
- [142] Ph. Garnier and T. Fraichard. *A Fuzzy Motion Controller for a Car-Like Vehicle*. Research Report RR-3200. INRIA, June 1997. URL: <http://hal.inria.fr/inria-00073489>.
- [143] T. Fraichard and M. T. Mason. *Sliding Objects in Contact*. Internal report. INRIA & Carnegie Mellon University, Nov. 1994.
- [144] T. Fraichard and C. Laugier. *Smooth Trajectory Planning for a Car-Like Vehicle in a Structured World*. Research Report RR-1448. INRIA, June 1991. URL: <http://hal.inria.fr/inria-00075112>.

Doctoral Students Theses

- [145] S. Bouraine. “Contribution à la planification de mouvements en environnements dynamiques pour des robots mobiles de type voiture: cas du Robucar”. PhD Thesis. Université de Blida (DZ), May 2016.
- [146] Q. Baig. “Multisensor Data Fusion for Detection and Tracking of Moving Objects From a Dynamic Autonomous Vehicle”. PhD Thesis. Université de Grenoble, Mar. 2012. URL: <https://tel.archives-ouvertes.fr/tel-00858441>.
- [147] M. P. Cruz Ramos. “Design of Interaction Systems for Mobile Robots Collaboration; a Marsupial Robot Team for Search and Rescue Operations Case Study”. PhD Thesis. Instituto Tecnológico y de Estudios Superiores de Monterrey (MX), Dec. 2012.
- [148] A. Renzaglia. “Adaptive Stochastic Optimization for Cooperative Coverage with a Swarm of Micro Air Vehicles”. PhD Thesis. Université de Grenoble, Apr. 2012. URL: <https://tel.archives-ouvertes.fr/tel-00718686>.
- [149] V. Delsart. “Navigation autonome en environnement dynamique : une approche par déformation de trajectoire”. PhD Thesis. Université de Grenoble, Oct. 2010. URL: <https://tel.archives-ouvertes.fr/tel-00592259>.
- [150] L. Martinez. “Safe Navigation for Autonomous Vehicles in Dynamic Environments: an ICS Perspective”. PhD Thesis. Université de Grenoble, Nov. 2010. URL: <https://tel.archives-ouvertes.fr/tel-00600578>.
- [151] S. Petti. “Safe Navigation within Dynamic Environments: a Partial Motion Planning Approach”. PhD Thesis. Ecole Nat. Sup. des Mines de Paris, July 2007. URL: <https://tel.archives-ouvertes.fr/pastel-00003661>.
- [152] D. Vasquez. “Apprentissage incremental pour la prediction des mouvements de piétons et de vehicules”. PhD Thesis. Grenoble Inst. of Technology (Grenoble INP), Feb. 2007. URL: <https://tel.archives-ouvertes.fr/tel-00155274>.
- [153] C. Coué. “Bayesian Model for Multi-Modal Analysis of Cluttered Environments : an Automotive Application”. PhD Thesis. Grenoble Inst. of Technology (Grenoble INP), Dec. 2003. URL: <https://tel.archives-ouvertes.fr/tel-00005527v1>.
- [154] A. Scheuer. “Continuous-Curvature Path Planning for Nonholonomic Mobile Robots”. PhD Thesis. Grenoble Inst. of Technology (Grenoble INP), Jan. 1998. URL: <https://tel.archives-ouvertes.fr/tel-00001746v1>.
- [155] P. Garnier. “Contrôle d’exécution réactif de mouvements de véhicules en environnement dynamique structuré”. PhD Thesis. Grenoble Inst. of Technology (Grenoble INP), Dec. 1995. URL: <http://tel.archives-ouvertes.fr/tel-00005045>.

Master Students Theses

- [156] V. Muço. “Safe Navigation for Robots”. Master’s Thesis. University of Grenoble, June 2017.
- [157] H. Yu. “Safe Navigation of Biped Robots Subject to Passive Friendly Safety and Balance Constraints”. Master’s Thesis. University of Grenoble, June 2016.
- [158] A. Van Den Berg. “Analysis of Social Navigation for a Robot”. Master’s Thesis. University of Grenoble, June 2013.

- [159] A. Bautin. “Uncertainty and Inevitable Collision States”. Master’s Thesis. University of Grenoble, June 2009.
- [160] J. Lahera. “Cooperative Navigation for Car-Like Vehicles”. Master’s Thesis. University of Grenoble, June 2009.
- [161] V. Delsart. “Autonomie du mouvement en environnements dynamiques: une approche élastique”. Master’s Thesis. University of Grenoble, June 2007.
- [162] O. Maler. “Navigation multi-robots en milieu urbain dynamique”. Master’s Thesis. University of Grenoble, June 2007.
- [163] R. Parthasarathi. “Characterization of the Inevitable Collision States for a Car-Like vehicle”. Master’s Thesis. University of Grenoble, June 2006.
- [164] J. Bulet. “Déplacements sous incertitudes d’un robot mobile”. Master’s Thesis. University of Grenoble, June 2004.
- [165] D. Vasquez. “Estimation de mouvement des obstacles mobiles: une approche statistique”. Master’s Thesis. University of Grenoble, Sept. 2003.
- [166] S. Blondin. “Planification de mouvements pour véhicule automatisé en environnement partiellement connu”. Master’s Thesis. University of Grenoble, June 2002.
- [167] F. Vincent. “Modélisation de l’environnement et localisation pour un véhicule”. Master’s Thesis. University of Grenoble, June 1997.
- [168] R. Mermond. “Planification de chemins pour un robot non-holonome sous des contraintes d’incertitudes géométriques”. Master’s Thesis. University of Grenoble, June 1996.
- [169] A. Scheuer. “Planification de trajectoire non-holonome en espace dynamique”. Master’s Thesis. University of Grenoble, June 1992.

Interns Reports

- [170] A. Bourgaud. *Déplacement d’un robot dans un environnement dense en agents mobiles*. Tech. rep. Grenoble Inst. of Technology (Grenoble INP), May 2013.
- [171] C. Di Pietro. *Design of a Robot Companion*. Tech. rep. INRIA, Nov. 2013.
- [172] T. Fisher. *Implementation of the Maïonnasse Model*. Tech. rep. INRIA, Oct. 2012.
- [173] L. Scandolo. *Proxemics and Social Constraints in Human-Aware Motion Planning*. Tech. rep. INRIA, Feb. 2011.
- [174] Dizan Vasquez. *Incremental Learning for Motion Prediction of Pedestrians and Vehicles*. Vol. 64. Springer Tracts in Advanced Robotics. Springer, 2010. DOI: 10.1007/978-3-642-13642-9.