

# References

- [1] B. Thuilot, C. Cariou, P. Martinet, M. Berducat, "Automatic guidance of a farm tractor relying on a single CP-DGPS", *Autonomous Robots*, Kluwer Academic Publishers, vol. 13, n. 1, pp. 53-71, July, 200. 2
- [2] J.A Marchant and R.Brivot."Real-time tracking of plant rows using a Hough transform", *Real-Time Imaging*, Volume 1, pp.189-194,1995.
- [3] S.Han,Q.Ni.B Zhang and J.F Reid."A guidance directrix approach to vision-based vehicle guidance systems",*Comput Electron Agric*, Volume 3, pp.179-194, 2004.
- [4] L.We, C.Cappelle, Y.Ruichek and F. Zann. "GPS and Stereovision-Based Visual Odometry: Application to Urban Scene Mapping and Intelligent Vehicle Localization",*International Journal of Vehicular Technology*, Volume 2011,2011.
- [5] R.C Harrell,P.D Adsit ,T.A Pool and R.Hoffman . The FloridaRobotic Grove Lab. *ASAE Transactions*, 1990,Vol 33,pp 391-399. 8
- [6] Q. Zhang ,J.F Reid,N. Noguchi. " Agricultural vehicle navigation using multiple guidance sensors" *In: Proceedings of International Conference on Field and Service Robotics*, Pittsburgh, PA, USA, 1999, pp 293298. 8, 28, 52
- [7] Y.Nagasaka ,N.Umeda,Y.Kanetai ,K.Taniwaki and Y.Sasaki ."Automated rice transplanter using global positioning an gyroscopes",*Comput Electron Agric*,2004 , Vol 43 (3),pp 223-234. 8, 28
- [8] N. Noguchi and H. Terao. "Path planning of an agricultural mobile robot by neural network and genetic algorithm", *Comput Electron Agric*,1997;Vol 18(2-3),pp. 187-204. 9
- [9] H.T Sogaard ,H.J Olsen. "Determination of crop rows by image analysis without segmentation", *Comput Electron Agric*, 2003,Vol 2(38), pp.141158.
- [10] S.Han,Q.Zhang , J.F Reid ."A guidance directrix approach to vision-based vehicle guidance systems", *ComputElectron Agric*, 2004,Vol 3(43), pp.179-197. 6
- [11] J.A Marchant and R Brivot. " Real-time tracking of plant rows using a Hough transform". *Real-Time Imaging*, 1995,Vol 1(5),pp.36371. 6
- [12] J.A Marchant."Tracking of row structure in three crops using image analysis", *Comput Electron Agric*, 1997,Vol 15(2),pp.161-179. 6
- [13] H. Okamoto ,K. Hamada ,T Kataoka ,M. Terawaki and S. Hata ."Automatic guidance system with crop row sensor", *In:Proceedings of Conference on Automation Technology for Off-Road Equipment (Chicago, Illinois, USA)*,2002, pp. 307-316. 6
- [14] Kise M, Zhang Q, Rovira M F."A stereovision-based crop row detection method for tractor-automated guidance",*Biosystems Engineering*, 2005,Vol 90(4),pp. 357-367. 6
- [15] B. Astrand ,A J Baerveldt . "A vision based row-following system for agricultural machinery", *Mechatronics*, 2005,Vol 15(2), pp.251-269. 6
- [16] K. Imou ,T. Okamoto and Y. Kaizu and M. Ishida, Sawamura A and Y.Sumida."Ultrasonic Doppler sensor for measuring vehicle speed in forward and reverse motions including low speed motions", *Agricultural Engineering International: CIGR Journal of Scientific Research and Development*, Vol. III, 2001.
- [17] D.C Slaughter ,D.K Giles and D.Downery."Autonomous robotic weed control systems", *A review. Comput. Electron Agric*,2008,Vol 61(1),pp.63-78. 7
- [18] A.Stoll and H.D Kutzbach." Guidance of a Forage Harvester with GPS". *Precision Agriculture*, 2000,Vol 2,pp.281-291. 7
- [19] M.Kise,N. Noguchi, K. Ishii and H. Terao."Development of agricultural autonomous tractor with an RTK-GPS and a FOG", *Proceedings of the Fourth IFAC Symposium on Intelligent Autonomous Vehicles*, Sapporo, Japan,2001, pp. 99-104. 8
- [20] M.Kise,N.Noguchi,K. Ishii K and H.Terao. "The development of the autonomous tractor with steering controller applied by optimal control", *Proceedings of Conference on Automation Technology for Off-Road Equipment*, Chicago, USA,2002, pp. 367-373. 8
- [21] T.D Gillespie.*Fundamental of vehicle dynamics*. Society of Autonomous Engineers, 2004,Ch1-4. 18, 19
- [22] T.I Fossen.*Guidance Control of Ocean Vehicles*.Willy and Sons Ltd, 1994. 17
- [23] D.J.M Smith.*Continuous System Simulation*.Chapman and Hall, Cambridge,1995. 23
- [24] E. De Castro and C. Morandi, Registration of Translated and Rotated images Using Finite Fourier Transforms, *IEEE Transactions on Pattern analysis and machine intelligence*,vol.PAMI-9, 1987, pp.740741 28, 30
- [25] N. Vatani, J. Roberts, M.V Srinivasan. "Practical visual odometry for car-like vehicles," *IEEE International Conference on Robotics and Automation*, 2009, pp.3551-3557. 41
- [26] J. Campbell, R. Sukthankar, I. Nourbakhsh, A. Pahwa. "A Robust Visual Odometry and Precipice Detection System Using Consumer-grade Monocular Vision," *Proceedings of the 2005 IEEE International Conference on Robotics and Automation*, 2005, pp. 3421- 3427. 28, 41
- [27] L.Piyathilaka and R.Munasinghe."Multi-camera visual odometry for skid steered field robot," *In Proceedings 5th International Conference on Information and Automation for Sustainability (ICIAFs)*, pp.189-194, 17-19 Dec. 2010. 42

- [28] J. Y. Bouguet. Pyramidal Implementation of the Lucas Kanade Feature Tracker, OpenCV Documentation, Intel Corporation, Microprocessor Research Labs. 33
- [29] J. Djugash, S. Singh, P. Corke. "Further Results with Localization and Mapping using Range from Radio," *In Proceedings, Fifth International Conference on Field and Service Robotics*, Pt. Douglas, Australia, July 2005. 10, 52, 64
- [30] G. Kantor and S. Singh, "Preliminary results in range-only localization and mapping", *In Proc. of the IEEE Conference on Robotics and Automation*, May 2002.
- [31] R. E. Kalman. "A new approach to linear filtering and prediction problems" *Transactions of the ASME*, pages 35-45, 1960. 10, 62
- [32] J. Shi and C. Tomasi. "Good Features to Track", *IEEE Conference on Computer Vision and Pattern Recognition*, pp 593600, 1994. 34
- [33] J. Weng, P. Cohen, M. Herniou, "Camera Calibration with Distortion Models and Accuracy Evaluation," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, pp. 965-980, October, 1992 58

