СПИСОК ВИКОРИСТАНОЇ ЛІТЕРАТУРИ

1. IHS Automotive. Emerging technologies: Autonomous cars-not if, but when. Technical report, IHS Automotive, 2014.

2. Navigant Research. Advanced driver assistance systems and the evolution of self-driving functionality: Global market analysis and forecasts. Technical report, Navigant Research, 2015.

3. ADAS [Електронний ресурс] – Режим доступу до ресурсу: https://en.wikipedia.org/wiki/Advanced_driver-assistance_systems.

4. Borkar A. Multiviewpoint Lane Detection With Applications in Safety Systems / Borkar Amol – Georgia, 2012. – 282 c.

5. Levels of driving automation [Електронний ресурс] – Режим доступу до ресурсу: https://en.wikipedia.org/wiki/Autonomous_car.

6. Autonomous Vehicles: Are You Ready for the New Ride? [Електронний ресурс]. – 2017. – Режим доступу до ресурсу: https://www.technologyreview.com/s/609450/autonomous-vehicles-are-you-ready-for-the-new-ride/.

7. ADAS and the Systems Engineering Challenge [Електронний ресурс] – Режим доступу до ресурсу: https://www.mentor.com/products/fv/resources/overview/adas-and-the-systems-engineering-challenge-ea1f3799-bf5f-49d7-a97c-86aca05165ee.

8. Recent Progress in Road and Lane Detection - A survey / A.Bar Hillel, R. Lerner, L. Dan, R. Guy. – C. 1–20.

9. Yenikaya S. Keeping the Vehicle on the Road – A Survey on On-Road Lane Detection Systems / S. Yenikaya, G. Yenikaya, E. Duven. // ACM Computer Survey. – 2013. – №2. – C. 1–43.

10. Three Sensor Types Drive Autonomous Vehicles [Електронний ресурс]. – 2017. – Режим доступу до ресурсу: https://www.sensorsmag.com/components/three-sensor-types-drive-autonomous-vehicles.

11. LIDAR [Електронний ресурс] – Режим доступу до ресурсу: https://en.wikipedia.org/wiki/Lidar.

12. Cheng, H., Jeng, B., Tseng, P., Fan, K.: Lane detection with moving vehicles in the traffic scenes. IEEE Transactions on Intelligent Transportation Systems 7 (2006) 571–582

13. Lipski, C., Scholz, B., Berger, K., Linz, C., Stich, T., Magnor, M.: A fast and robust approach to lane marking detection and lane tracking. In: Southwest Symposium on Image Analysis and Interpretation. (2008) 57–60

14. Digital camera modes [Електронний ресурс] – Режим доступу до ресурсу: https://en.wikipedia.org/wiki/Digital_camera_modes.

15. M. Bertozzi and A. Broggi, "Gold: A parallel real-time stereo vision system for generic obstacle and lane detection," IEEE Transactions on Image Processing, vol. 7, no. 1, pp. 62–81, 1998.

16. A. Borkar, M. Hayes, and M. T. Smith, "Robust lane detection and tracking with ransac and Kalman filter," Proceedings of the IEEE International Conference on Image Processing, pp. 3261–3264, 2009.

17. E. Johnson and R. Hamburger, "Inverse Perspective Mapping: CS5320/6320 Computer Vision Project," College of Engineering, University of Utah, Tech. Rep., 2007.

18. C. Mu , X. Ma , Lane detection based on object segmentation and piecewise fit- ting, Telkomnika Indonesian J. Electr.Eng. 12 (5) (2014) 3491–3500 .

19. M. Lan , M. Rofouei , S. Soatto , M. Sarrafzadeh , Smartldw: A robust and scal- able lane departure warning system for the smartphones, in: Proc. International IEEE Conf. on Intelligent Transportation System, 2009, pp. 108–113 .

20. C. Tu , B.V. Wyk , Y. Hamam , K. Djouni , S. Du , Vehicle position monitoring using hough transform, in: IERI Procedia, 4, 2013, pp. 316–322 .

21.P.C. Wu , C. Chang , C.H. Lin ,Lane mark extraction for automobiles under com- plex conditions, Pattern Recognit. 47 (2756–2767) (2014) 2756–2767 .

22. Y. Wang , D. Shen , E.K. Teoh , Lane detection using spline model, Pattern Recog- nit. Lett. 21 (9) (20 0 0) 677–689 .

23. H. Aung , M.H. Zaw ,Video based lane departure warning system using hough transform, in: International Conf. on Advances in Enginerring and Technology (ICAET), Singapore, 2010, pp. 85–88 .

24. H. Guan , W. Xingang , W. Wenqi , Z. Han , W. Yuanyuan , Real-time lane-vehicle detection and tracking system, in: Chinese Control and Decision Conference (CCDC), 2016, pp. 4 438–4 4 43 .

25. Jiang, Y., Gao, F., Xu, G.: Computer vision-based multiplelane detection on straight road and in a curve. In: Image Analysis and Signal Processing. (2010) 114–117

26. P. Narote S. A review of recent advances in lane detection and departure warning system / S. P. Narote, P. N. Bhujbal. // Pattern Recognition. – 2017. – №73. – C. 216–234.

27. G. Derpanis K. Overview of the RANSAC Algorithm / Konstantinos G. Derpanis. – 2010. – C. 1–2.

28. H. Li , F. Nashashibi , Robust real time lane detection based on lane mark seg- ment features and general a priori knowledge, in: IEEE International Conf. on Robotics and Biomimetics,Phuket,Thailand, 2011, pp. 812–817 .

29. Y. Lee , H. Kim , Real-time lane detection and departure warning system on em- bedded platform, in: IEEE 6th International Conference on Consumer Electron- ics - Berlin (ICCE-Berlin), 2016, pp. 1–4 .

30. Particle filter [Електронний ресурс] – Режим доступу до ресурсу: https://en.wikipedia.org/wiki/Particle_filter.

31. Braunschweig University of Technology. Carolo cup competition, 2016.

32. Привідний двигун [Електронний ресурс] – Режим доступу до ресурсу: https://product.mabuchi-motor.com/detail.html?id=112.

33. Сервопривод [Електронний ресурс] – Режим доступу до ресурсу: https://www.spektrumrc.com/Products/Default.aspx?ProdID=SPMSS6040.

34. Драйвер [Електронний ресурс] – Режим доступу до ресурсу: http://www.hessmer.org/blog/2013/12/28/ibt-2-h-bridge-with-arduino/.

35. STM32F407 [Електронний ресурс] – Режим доступу до ресурсу: http://www.st.com/content/ccc/resource/technical/document/reference_manual/3d/6d/5a/66/b4/99/40/d4/DM00031020.pdf/files/DM00031020.pdf/jcr:content/translations/en.DM00031020.pdf.

36. Jetson TX2 [Електронний ресурс] – Режим доступу до ресурсу: https://www.nvidia.ru/autonomous-machines/embedded-systems-dev-kits-modules/.

37. Камера [Електронний ресурс] – Режим доступу до ресурсу: https://www.theimagingsource.com/products/industrial-cameras/usb-3.1-color/dfk37aux287/.

38. Батарея [Електронний ресурс] – Режим доступу до ресурсу: https://www.conrad.com/ce/en/product/1344139/Scale-model-battery-pack-LiPo----111-V----3800-mAh----20-C----Conrad-ene.

39. Boost converter [Електронний ресурс] – Режим доступу до ресурсу: http://www.ti.com/lit/ds/symlink/tps55340.pdf.

40. Регулятор напруги [Електронний ресурс] – Режим доступу до ресурсу: http://www.ti.com/lit/ds/symlink/lm2596.pdf.

41. Регулятор напруги [Електронний ресурс] – Режим доступу до ресурсу: https://www.onsemi.com/pub/Collateral/NCV4274-D.PDF.

42. Ультразвуковий давач [Електронний ресурс] – Режим доступу до ресурсу: http://www.micropik.com/PDF/HCSR04.pdf.

43. Інфрачервоний давач [Електронний ресурс] – Режим доступу до ресурсу: https://www.sparkfun.com/datasheets/Components/GP2Y0A21YK.pdf.

44. Гіроскоп [Електронний ресурс] – Режим доступу до ресурсу: https://arduino.ua/prod512-akselerometr-i-giroskop-mpu-6050-modyl-6dof.

45. Computer vision getting started guide [Електронний ресурс]. – 2018. – Режим доступу до ресурсу: https://ch.mathworks.com/help/pdf_doc/vision/vision_gs.pdf.

46. Gonzales, Rafael C. and Richard E. Woods. Digital Image Processing. 2nd ed. Englewood Cliffs, NJ: Prentice-Hall, 2002.

47. Richard Duda and Peter Hart. Use of the hough transformation to detect lines and curves in pictures, 1972.

48. Rudolph Emil Kalman. A new approach to linear filtering and prediction problems. Journal of basic Engineering, 82(1):35–45, 1960.

49. Welch, Greg and Gary Bishop, "An Introduction to the Kalman Filter," TR 95–041, Department of Computer Science, University of North Carolina.

50. A Trajectory Planning Method Based on Forward Path Generation and Backward Tracking Algorithm for Automatic Parking Systems / J.Moon, I. Bae, J. Cha, S. Kim. – 2014. – C. 719–724.

51. Xu,J in,G uang Chen,an d Ming Xie. "Vision-guided automatic parking for smart car." IEEE intelligent Vehicles symposium. Vol., 2000.

52. Satonaka, Hisashi, et al. "Development of parking space detection using an ultrasonic sensor." "Proc. 13th World Congr. Intell. Transp. Syst. Serv., 1-10,2006.

53. Модель Акермана [Електронний ресурс] – Режим доступу до ресурсу: https://en.wikipedia.org/wiki/Ackermann_steering_geometry.

54. Muller, Bernhard, Joachim Deutscher, and Stefan Grodde. "Continuous curvature trajectory design and feed forward control for parking a car." Control Systems Technology, IEEE Transactions on 15.3, 541-553, 2007.