# Список литературы

1. SPIE, 2002.

2. 2018.

3. Proceedings of the 2020 4th International Conference on Digital Signal Processing. – New York,NY,United States: Association for Computing Machinery, 2020. – 383 c.

4. Application of deep learning and inline holography to estimate the droplet size distribution / S.S. Ade, D. Gupta, L.D. Chandrala, K.C. Sahu, 21.03.2024. – 36 c.

5. Photon Doppler Velocimetry and Simulation of Ejection of Particles from the Surface of Shock-Loaded Samples / A.V. Andriyash, S.A. Dyachkov, V.V. Zhakhovsky [et al.] // Journal of Experimental and Theoretical Physics. – 2020. – Vol. 130, №3. – P.338–357.

6. eFIN: Enhanced Fourier Imager Network for Generalizable Autofocusing and Pixel Super-Resolution in Holographic Imaging / H. Chen, L. Huang, T. Liu, A. Ozcan // IEEE Journal of Selected Topics in Quantum Electronics. – 2023. – Т.29, №4: Biophotonics. – C.1–10.

7. DH-GAN: a physics-driven untrained generative adversarial network for holographic imaging / X. Chen, H. Wang, A. Razi [et al.] // Optics Express. – 2023. – Vol. 31, №6. – P.10114–10135.

8. Characterization of ejecta in shock experiments with multiple light scattering / J.A. Don Jayamanne, J.-R. Burie, O. Durand [и др.] // Journal of Applied Physics. – 2024. – Т.135, №7.

9. Durand, O. Mass-velocity and size-velocity distributions of ejecta cloud from shock-loaded tin surface using atomistic simulations / O. Durand, L. Soulard // Journal of Applied Physics. – 2015. – Т.117, №16.

10. Dyomin, V.V. Data acquisition from digital holograms of particles / V.V. Dyomin. – .

11. Optimization of time-multiplexed computer-generated holograms with surrogate gradients / M.H. Eybposh, A. Moossavi, V.R. Curtis, N.C. Pegard // Emerging Digital Micromirror Device Based Systems and Applications XIV: Emerging Digital Micromirror Device Based Systems and Applications XIV: SPIE, 1/22/2022 - 2/28/2022. – C.7.

12. Fedorov, A.V. Determination of the Sizes of Particle Ejected from Shock-Loaded Surfaces during Their Deceleration in a Gaseous Medium / A.V. Fedorov, I.S. Gnutov, A.O. Yagovkin // Journal of Experimental and Theoretical Physics. – 2018. – Vol. 126, №1. – P.76–82.

13. Untrained deep network powered with explicit denoiser for phase recovery in inline holography / A.S. Galande, V. Thapa, H.P.R. Gurram, R. John // Applied Physics Letters. – 2023. – Т.122, №13.

14. Investigation of cloud droplets velocity extraction based on depth expansion and self-fusion of reconstructed hologram / P. Gao, J. Wang, J. Tang [et al.] // Optics Express. – 2022. – Vol. 30, №11. – P.18713–18729.

15. Nonplanar effects in simulations of laser-driven ejecta microjet experiments / J.A.K. Horwitz, Y. Sun, J. Pino [и др.] // AIP Advances. – 2024. – Т.14, №3.

16. Holographic Image Reconstruction with Phase Recovery and Autofocusing Using Recurrent Neural Networks / L. Huang, T. Liu, X. Yang [и др.] // ACS Photonics. – 2021. – Т.8, №6. – C.1763–1774.

17. Characterization of ejecta in shock experiments with multiple light scattering / J.A.D. Jayamanne, J.-R. Burie, O. Durand [и др.], 07.12.2023. – 14 c.

18. Recovering particle velocity and size distributions in ejecta with Photon Doppler Velocimetry / J.A.D. Jayamanne, R. Outerovitch, F. Ballanger [и др.], 18.06.2024.

19. Autofocus algorithm using optimized Laplace evaluation function and enhanced mountain climbing search algorithm / D. Jia, C. Zhang, N. Wu [и др.] // Multimedia Tools and Applications. – 2022. – Т.81, №7. – C.10299–10311.

20. Learning approach to optical tomography / U.S. Kamilov, I.N. Papadopoulos, M.H. Shoreh [и др.] // Optica. – 2015. – Т.2, №6. – C.517.

21. Kim, M. Principles and techniques of digital holographic microscopy / M. Kim // SPIE Reviews, Volume 1, id. 018005 (2010). – 2009. – Т.1. – C.8005.

22. Automated droplet size distribution measurements using digital inline holography / S.S. Kumar, C. Li, C.E. Christen [и др.] // Journal of Aerosol Science. – 2019. – Т.137. – C.105442.

23. Emerging Digital Micromirror Device Based Systems and Applications XIV / ред. B. L. Lee, J. Ehmke: SPIE, 1/22/2022 - 2/28/2022.

24. Numerical study on the shock-induced ejecta formation from a grooved aluminum surface: The effect of groove size / Y. Liang, L. Wu, J.-L. Shao, Y.-H. Xiao // Physics of Fluids. – 2024. – Т.36, №6.

25. Deep learning-based super-resolution in coherent imaging systems / T. Liu, K. de Haan, Y. Rivenson [и др.] // Scientific Reports. – 2019. – Т.9, №1.

26. Hydrodynamic computations of high-power laser drives generating metal ejecta jets from surface grooves / K.K. Mackay, F.M. Najjar, S.J. Ali [и др.] // Journal of Applied Physics. – 2020. – Т.128, №21.

27. Recognition of Multiscale Dense Gel Filament-Droplet Field in Digital Holography With Mo-U-Net / Z. Pang, H. Zhang, Y. Wang [и др.] // Frontiers in Physics. – 2021. – Т.9.

28. Multiscale Richtmyer-Meshkov instability experiments to isolate the strain rate dependence of strength / M.B. Prime, S.J. Fensin, D.R. Jones [et al.] // Physical Review E. – 2024. – Vol. 109, №1-2. – P.15002.

29. Particle shape recognition using digital holography / Qieni Lu, Yimo Zhang, Bao-Zhen Ge [et al.] // Optical Information Processing Technology: SPIE, 2002. – P.481–486.

30. ResearchGate. (PDF) On the use of deep learning for phase recovery / ResearchGate. – https://www.researchgate.net/publication/372858455\_On\_the\_use\_of\_deep\_learning\_for\_phase\_recovery.

31. Ejected Particle Size Distributions from Shocked Metal Surfaces / M.M. Schauer, W.T. Buttler, D.K. Frayer [и др.] // Journal of Dynamic Behavior of Materials. – 2017. – Т.3, №2. – C.217–224.

32. Machine learning holography for 3D particle field imaging / S. Shao, K. Mallery, S.S. Kumar, J. Hong // Optics Express. – 2020. – Vol. 28, №3. – P.2987–2999.

33. Reconstruction and interpretation of photon Doppler velocimetry spectrum for ejecta particles from shock-loaded sample in vacuum\* / X.-F. Shi, D.-J. Ma, S. Dang [и др.] // Chinese Physics B. – 2021. – Т.30, №6. – C.66201.

34. DarkFocus: numerical autofocusing in digital in-line holographic microscopy using variance of computational dark-field gradient / M. Trusiak, J.-A. Picazo-Bueno, P. Zdankowski, V. Micó // Optics and Lasers in Engineering. – 2020. – Т.134. – C.106195.

35. Victor Dyomin. Data acquisition from digital holograms of particles / Victor Dyomin, Alexey S. Olshukov, Alexandra Davydova // Unconventional Optical Imaging, 2018. – C.123.

36. On the use of deep learning for phase recovery / K. Wang, L. Song, C. Wang [et al.] // Light: Science & Applications. – 2024. – Vol. 13, №1. – P.4.

37. Weiss, K. A survey of transfer learning / K. Weiss, T.M. Khoshgoftaar, D. Wang // Journal of Big Data. – 2016. – Vol. 3, №1. – P.1–40.

38. Large depth-of-field fluorescence microscopy based on deep learning supported by Fresnel incoherent correlation holography / P. Wu, D. Zhang, J. Yuan [et al.] // Optics Express. – 2022. – Vol. 30, №4. – P.5177–5191.

39. Picosecond pulsed digital off-axis holography for near-nozzle droplet size and 3D distribution measurement of a swirl kerosene spray / Y. Wu, L. Wang, W. Lin [и др.] // Fuel. – 2021. – Т.283. – C.119124.

40. Numerical study on the shock-induced ejecta formation from a grooved aluminum surface: The effect of groove size / Yuan Liang, Lei Wu, Jian-Li Shao, Ying Xiao // The Physics of Fluids. – 2024. – .

41. Numerical study on the shock-induced ejecta formation from a grooved aluminum surface: The effect of groove size / Yuan Liang, Lei Wu, Jian-Li Shao, Ying Xiao // The Physics of Fluids. – 2024. – .

42. Adaptive in-focus particle detection and segmentation in holographic 3D image with mechanism-guided machine learning / H. Zhang, B. Wang, L. Zhang [и др.] // Optics and Lasers in Engineering. – 2024. – Т.181. – C.108400.

43. Single-shot deep-learning based 3D imaging of Fresnel incoherent correlation holography / Q. Zhang, T. Huang, J. Li [и др.] // Optics and Lasers in Engineering. – 2024. – Т.172. – C.107869.

44. Zhang, Y. Deep-learning-enhanced Digital Holographic Autofocus Imaging / Y. Zhang, H. Wang, M. Shan // ICDSP 2020: 2020 4th International Conference on Digital Signal Processing: Proceedings of the 2020 4th International Conference on Digital Signal Processing. – New York,NY,United States: Association for Computing Machinery, 2020. – C.56–60.

45. Zhao, Q. A Primary-Auxiliary Coupled Neural Network for Three-Dimensional Holographic Particle Field Characterization / Q. Zhao, Y. Zhao, L. Bao // IEEE Transactions on Industrial Informatics. – 2022. – Т.18, №10. – C.6671–6679.