

## Publications 2021-2015: Prof. Dr. Gerd Häusler, University of Erlangen-Nürnberg

Youtube Kanal: <https://www.youtube.com/user/Osmin3D>

J = Reviewed journal

C = Conference paper / Technical Journal

I = Invited

P = Patent or Patent Application

V = Video

B = Book / Book article

X = arXiv

- I 310 "Discover better Optical Sensors by Exploring and Exploiting Nature's Limits", OSA Imaging and Applied Optics Congress, Computational Sensing and Imaging (COSI), Munich, June 24-27. 2019  
<https://github.com/gerdhaeusler/papers/blob/main/E%20310%20OSA%20COSI%20Munich%202019%20discover%20better%20optical%20sensors%20footline%20pdf%20190214%202300.pdf>
- C 309 Gerd Häusler, Florian Dötzer, Klaus Mantel, "Instantaneous speckle reduction? Yes, but there is no free lunch!", Proc. SPIE 10834, Speckle 2018: VII International Conference on Speckle Metrology, 108340B (7 September 2018) 7 pp; doi: 10.1117/12.2317925 SPIEDigitalLibrary
- Z 308 Florian Willomitzer, Gerd Häusler: "Single-shot 3D motion picture camera with a dense point cloud", Optics Express, No. 19 | 18 Sep 2017 | OPTICS EXPRESS 23451-23464,  
<https://www.osapublishing.org/oe/fulltext.cfm?uri=oe-25-19-23451&id=372853>
- C 307 Florian Dötzer, Klaus Mantel, Gerd Häusler: "Speckle Reduction II, Laser projection without speckle noise? Experimental investigation", in: DGaO-Proceedings 118, 2017, B2  
[http://www.dgao-proceedings.de/download/118/118\\_b2.pdf](http://www.dgao-proceedings.de/download/118/118_b2.pdf)
- T 306 Gerd Häusler, Florian Doetzer, Klaus Mantel: "Speckle Reduction I: There is no free lunch", in: DGaO-Proceedings 118, 2017, B1; [http://www.dgao-proceedings.de/download/118/118\\_b1.pdf](http://www.dgao-proceedings.de/download/118/118_b1.pdf)
- Z 305 Hanning Liang, Evelyn Olesch, Zheng Yang and Gerd Häusler; Single-shot phase-measuring deflectometry for cornea measurement; Adv. Opt. Techn. (2016) Volume 5, pp.433-438 & DGaO-Proc. 2015, [https://www.dgao-proceedings.de/download/116/116\\_a8.pdf](https://www.dgao-proceedings.de/download/116/116_a8.pdf)
- X 304 F. Willomitzer, G. Häusler: "Single-shot 3D motion picture camera with a dense point cloud", arXiv:1605.02119 (2016), <https://arxiv.org/pdf/1605.02119.pdf>
- Z 303 Z. Yang, A. Kessel and G. Häusler: Better three-dimensional inspection with structured illumination: speed; Applied Optics, 55(7), 1713-1719 (2016), <https://doi.org/10.1364/AO.55.001713>  
[https://github.com/gerdhaeusler/papers/blob/main/2016\\_303\\_ZY\\_SIM\\_speed.pdf](https://github.com/gerdhaeusler/papers/blob/main/2016_303_ZY_SIM_speed.pdf)
- Z 302 F. Willomitzer, S. Ettl, C. Faber, G. Häusler: [Single-shot 3D sensing with improved data density](#) Applied Optics, 54(3), 408-417 (2015), and in: arXiv: 1406.2038,  
[https://github.com/gerdhaeusler/papers/blob/main/2015\\_290Z\\_AO\\_Willomitzer\\_SingleShot3DSensingWithImprovedDataDensity.pdf](https://github.com/gerdhaeusler/papers/blob/main/2015_290Z_AO_Willomitzer_SingleShot3DSensingWithImprovedDataDensity.pdf)
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[https://github.com/gerdhaeusler/papers/blob/main/2015\\_300X\\_ZY\\_AK\\_GH\\_Better\\_3D\\_Inspection.pdf](https://github.com/gerdhaeusler/papers/blob/main/2015_300X_ZY_AK_GH_Better_3D_Inspection.pdf)
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