

## Publikationen

- (2020): Computer-aided beam path generation and assessment for Stevick-Paul telescopes. In: Proceedings of SPIE 11478 (Seventh European Seminar on Precision Optics Manufacturing [8 July 2020; Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2564852.
- (2019): Spatial light modulator device for the modulation of a wave field with complex information.
- (2019): Beam divergence and various collimators for holographic or stereoscopic displays.
- (2019): Patente:Praxiserfahrungen. In: Patentworkshop der Technischen Hochschule Deggendorf, Deggendorf.
- (2019): Wave front sensing for metrology by using optical filter. In: Sixth European Seminar on Precision Optics Manufacturing (POM19), Teisnach.
- (2019): 4-Schiefspiegel-Teleskop: Justage und Stabilitätsaspekte. In: Untertitel, Deggendorf.
- (2019): Four-Tilted-Mirror Telescope: Alignment and Stability Aspects. In: Forschungsbericht 2018/2019 der Technischen Hochschule Deggendorf, Deggendorf.
- (2019): Alignment and thermal drift aspects of a four-tilted-mirror student project telescope. In: Proceedings of SPIE 11171 (Sixth European Seminar on Precision Optics Manufacturing, 1117101 [9-10 April 2019, Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2530076.
- (2019): Wave front sensing for metrology by using optical filter. In: Proceedings of SPIE 11171 (Sixth European Seminar on Precision Optics Manufacturing, 1117101 [9-10 April 2019, Teisnach]), Bellingham, WA, USA. DOI: 10.1117/12.2530013.
- (2019): 4x-Schiefspiegel-Teleskop-Projekt. Posterpräsentation. In: 6. Tag der Forschung, Deggendorf.
- (2018): Developing a four-tilted-mirror telescope as a student project. In: SPIE Optics Education and Outreach V, San Diego, CA, USA.
- (2018): Abschattungsfreies Multi-Schiefspiegel-Teleskop als studentisches Entwicklungsprojekt. In: 119. Jahrestagung der Deutschen Gesellschaft für angewandte Optik (DGaO), Aalen.
- (2018): Optimization of the complex coherence function for diffraction-based wavefront transformations. In: SPIE Photonics Europe 2018, Strasbourg, Frankreich.
- (2018): Model based error separation of power spectral density artefacts in wavefront measurement. In: SPIE Optical Engineering + Applications Conference on Interferometry XIX, San Diego, CA, USA.
- (2018): Display Device, holographic head-mounted display.
- (2018): Abschattungsfreies Multi-Schiefspiegel-Teleskop als studentisches Entwicklungsprojekt. In: DGaO Proceedings zur 119. Jahrestagung in Aalen (22.-26.05.2018) 2018.
- (2018): CSLM illumination for 1D and 2D encoded holographic 3D displays. In: Illumination Optics V, Symposium: EOD18 SPIE Optical Systems Design, Frankfurt am Main.
- (2018): Developing a four-tilted-mirror telescope as a student project. In: Optics Education and Outreach V, vol. volume 10741. DOI: 10.1117/12.2320542.

- (2018): CSLM illumination for 1D and 2D encoded holographic 3D displays. In: Illumination Optics V; SPIE Illumination Optics Conference; SPIE Optical Systems Design (OSD) [May 14-16, 2018; Frankfurt, Germany], vol. 10693. DOI: 10.1117/12.2312745.
- (2018): Optimization of the complex coherence function for diffraction-based wavefront transformations. In: Unconventional Optical Imaging. DOI: 10.1117/12.2307245.
- (2018): Model based error separation of power spectral density artefacts in wavefront measurement. In: Proceedings of SPIE 10749 (SPIE Optical Engineering + Applications Conference on Interferometry XIX [August 19-23, 2018; San Diego, CA, USA]). DOI: 10.1117/12.2321106.
- (2018): Contribution of the phase transfer function of extended measurement cavities to mid spatial frequencies and the overall error budget. In: Proceedings of SPIE 10829 (Fifth European Seminar on Precision Optics Manufacturing [April 10-11, 2018; Teisnach]). DOI: 10.1117/12.2318711.
- (2018): Etalon effect suppression in optical measurements by using complex coherence optimization. Posterpräsentation. In: 5. Tag der Forschung, Deggendorf.
- (2017): Contribution of the phase transfer function of extended measurement cavities to mid spatial frequencies and the overall error budget. In: Fifth European Seminar on Precision Optics Manufacturing, Teisnach.
- (2017): Combined light modulation device for tracking users.
- (2017): Method for producing holograms.
- (2017): Advantages of on-axis PBS based Fizeau interferometers. In: DGaO Proceedings zur 118. Jahrestagung in Dresden (06.-10.06.2017).
- (2017): Fast Fizeau interferometer with polarization selective reference and reduced measurement uncertainty for production integrated measurement. In: Forschungsbericht 2016/2017 der Technischen Hochschule Deggendorf.
- (2017): Optical surface measurement technologies. Invited Talk. In: 3rd International Summer School: Trends in energy and particle beam ultra-precision optical surface engineering, Leipzig.
- (2017): Advantages of on-axis PBS based Fizeau interferometers. In: 118. Jahrestagung der Deutschen Gesellschaft für angewandte Optik (DGaO), Dresden.
- (2017): Polarization-Fizeau interferometer enabling phase measurement with reduced uncertainty. In: SPIE Precision Optics Manufacturing, Session - Measurement in Production, Teisnach.
- (2017): A Display for Two-Dimensional and/or Three-Dimensional Images.
- (2017): Illumination device.
- (2017): Tailored complex degree of mutual coherence for plane-of-interest interferometry with reduced measurement uncertainty. In: SPIE Optifab, Rochester, NY, USA.
- (2017): Tailored complex degree of mutual coherence for plane-of-interest interferometry with reduced measurement uncertainty. In: Proceedings of SPIE 10448 (SPIE Optifab [October 16-19, 2017; Rochester, NY, USA]). DOI: 10.1117/12.2279834.
- (2017): Polarization-Fizeau interferometer enabling phase measurement with reduced uncertainty. In: Proceedings of SPIE 10326 (Fourth European Seminar on Precision Optics Manufacturing, 1032601 [April 4th-5th 2017, Teisnach]). DOI: 10.1117/12.2272001.
- (2016): Enabling Holographic 3D Displays with Bragg Diffraction Based Volume Gratings and First Approaches to the Reduction of Diffractive Cross Talk. In: Bavarian Journal of Applied Sciences, no. 2, pp. 130-145. DOI: 10.25929/276j-2q41.
- (2016): Display Device, in Particular a Head-Mounted Display, Based on Temporal and Spatial Multiplexing of Hologram Tiles.



- (2016): Beam Divergence and Various Collimators for Holographic or Stereoscopic Displays.
- (2016): Combined Light Modulation Device for Tracking Users.
- (2016): Light Modulation Device.
- (2016): Field lens multiplexing in holographic 3D displays by using Bragg diffraction based volume gratings. In: Proceedings of SPIE 10151 (Optics and Measurement International Conference 2016 [11.-14.10.2016, Liberec, Tschechische Republik]).
- (2016): From Holographic displays to Volume Gratings and Off-Axis Parabolic Mirrors. In: Proceedings of SPIE 10009 (Third European Seminar on Precision Optics Manufacturing, 100090Y [April 12th 2016, Teisnach]). DOI: 10.1117/12.2245183.
- (2015): Anzeigevorrichtung für eine holografische Rekonstruktion.
- (2015): Projection display and method for displaying at least one of two-dimensional and three-dimensional scene or of content.
- (2015): Projektionsvorrichtung und Verfahren zum Darstellen einer zweidimensionalen und/oder dreidimensionalen Szene oder von Inhalt.
- (2015): Display Device for Holographic Reconstruction.
- (2014): Optisches System zur Messung der Polarisation und der Phase (Inhalt: Verfahren und Anordnungen zur flächigen optischen Darstellung von Ladungsträgern, ihrer Verteilungen und ihrer Beweglichkeit).
- (2011): Combined light modulation device for tracking users.
- (2011): Beam divergence and various collimators for holographic or stereoscopic displays.
- (2011): Small Form Factor for Holographic 3D Display Product. In: 2011 Collaborative Conference on 3D & Materials Research (3DMR), Jeju City, South Korea.
- (2010): Compact Holographic Display Product Solutions. Invited Talk. In: International Workshop on Holographic Memories and Display (IWHM&D), Tokyo, Japan.
- (2007): An angular reversal technique for error separation between a dual axis electronic autocollimator and a PZT tilting platform. In: Proceedings of the Seventh Euspen International Conference 2007 (European Society for Precision Engineering and Nanotechnology).
- (2007): Simulation of the detectors response of an autocollimator. In: Modeling Aspects in Optical Metrology.
- (2006): Verfahren zur interferometrischen Bestimmung einer optischen Weglänge zwischen der Oberfläche eines Objekts und einer Referenzfläche und Interferometeranordnung.
- (2005): Autokollimationsfernrohr und Verfahren zur Abbildung einer Messmarke hierfür.
- (2005): Enhancement of high-resolution electronic autocollimators by application of phase grating technology. In: Proceedings of SPIE Volume 5856 (Optical Measurement Systems for Industrial Inspection IV) [Event: Optical Metrology; June 13th, 2005; Munich, Germany]. DOI: 10.1117/12.612745.

