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- José Antonio Díaz Navas

José Antonio Díaz Navas

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Personal data

- Born in Linares (Jaén, Spain) the February 18th, 1969.
- Professional address: Departamento de Óptica, Edificio Mecenas, Universidad de Granada. 18071-Granada, Spain.
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Education

- Graduate in Physics in 1992, Universidad de Granada
- Ph.D in Physics in 1997, Universidad de Granada

Experience

- Associate Professor in the Universidad de Granada since 2001
- Assistant Professor in the Universidad de Granada from 1994 to 2001
- Invited Researcher at the Photobiology laboratory of the National Museum of Natural History in Paris, France, from 1/1/1996 to 2/15/1996

Academic Activities

- Sept. 2015-present: Master Erasmus Mundus COSI (courses delivered in English): Advanced Color Image Processing, Fourier Optics.
- Sept. 2008-2015: Master Erasmus Mundus CIMET (courses delivered in English): Image Processing & Analysis.
- Sept. 1999/2000: Graduate studies in Physics: Optics.
- Sept. 1994-present: Graduate studies in Optics and Optometry: Optical Design, Physical Optics, Physical Optics Lab.

Expertise and Area of Interest

- Basic and Applied Colorimetry, and Color Vision.
- Physiological Optics.
- Optical Design and Testing.
- Hyperspectral Imaging.

Research Activities

- Involved in several national and international research projects in the fields of color vision, hyperspectral imaging, optical imaging and aberrations, and optical design.

Publications Summary

- About seventy papers in peer-reviewed journals with impact factor as listed by ISI – Journal of Citation Reports, and twelve peer reviewed conference proceedings (most AIP and SPIE proceedings).
- One textbook and lab manual (both in Spanish) about the courses I teach.
- One translated textbook to Spanish.
- One co-edited book.
- Two book chapters.

Service to Optics Community

- Member of the Program Committee of SPIE conference on Current Developments in Lens Design and Optical Engineering, and Advances in Thin Film Coatings (2012-present).
- Topical Editor of OSA journal Applied Optics (2006-2011).
- Reviewer for various JRC indexed journals (Applied Optics, Color Research and Application, Journal of Optics A: Pure & Applied, Optical Engineering, Optics Communications, The Imaging Journal, Clinical & Experimental Optometry, Physiological Measurements, European Journal of Physics, Sensors, Journal of Applied Sciences, Optics Express, Optics Letters, and Journal of the Optical Society of America A).
- Attended about twenty international (ECVP Meetings, AIC meetings, OSA Annual Meeting, SPIE Electronic Imaging Meeting, SPIE Optical System Design Meetings) and seventeen national meetings, presenting papers in my areas of interest and expertise (1995-Present).
- Co-organizer of the Second International Meeting on Physiological Optics, held in Granada (2004).
- Invited speaker by Professors J. D. Mollon and H. Barlow of Cambridge University to the Workshop on Metamerism and Color Vision, sponsored by the Rank Prize Funds (Grassmere, UK, 1999).
- Invited to attend in national universities as a talk speaker (Polytechnic University of Barcelona, University of Murcia).
- Co-organizer of two national meetings in Optics, Colorimetry and Color Vision (1994). • SPIE Senior Member since 2012.

Patents

Inventors: José Antonio Díaz Navas Title: Sistema óptico constituido por un doblete pegado híbrido refractivo/difractivo para la acromatización del ojo humano. Number: 2283162 Priority country: Spain Date: 21/08/2008.

List of Research Projects (last 5 years)

- Project (with ref.): Imageologia hiperespectral das cores estruturais (FCOMP-01-0124-FEDER-014588). Grant Office: Fundação para a Ciência e Tecnologia of the Portuguese's Ministry for Science, Technology and Higher Education (Portugal). Members: Departamento de Óptica de la Universidad de Granada. Centro de Física, Universidade do Minho. Term: 2011-2013. BUDGET: 100204 €
- Project (with ref.): Estrategia para incluir el perfil grin inducido en el proceso de inyección de las lentes de plástico en las etapas de diseño de sistemas ópticos (DPI2012-38647-C02-01). Grant Office: Ministerio de Economía y Competitividad (Spain). Members: Departamento de Óptica de la Universidad de Granada. Centro para el desarrollo de Sensores y sistemas, Universidad Politécnica de Cataluña. Term: 2013-2016 Budget: 27000 €

List of Peer Publications (last 5 years)

1. JOSÉ ANTONIO DÍAZ NAVAS; Medina, José Manuel. The Optical Transfer Function and the Meijer-G function. *Optik (Print)*. 137, pp. 175 - 185. 2017.
2. JOSÉ ANTONIO DÍAZ NAVAS, Mahajan, Virendra. Geometrical Optical Transfer Function: is it worth calculating? *Applied Optics (Print)*. 56(28), pp. 7998 -8004. 2017.
3. Medina, José Manuel; JOSÉ ANTONIO DÍAZ NAVAS. Fluctuation scaling of color variability in automotive metallic add-on parts. *Progress in organic coatings (Print)*. 104, pp. 118 -124. 2017.
4. Mahajan, Virendra; JOSÉ ANTONIO DÍAZ NAVAS. Comparison of geometrical and diffraction imaging in the space and frequency domains. *Applied optics*. 55 -12, pp. 3241 -3250. 2016.
5. JOSÉ ANTONIO DÍAZ NAVAS. Relating wavefront error, apodization, and the optical transfer function: on-axis case: comment. *Journal of the Optical Society of America. A, Optics and Image Science*. 33 -8, pp. 1622 -1625. 2016.
6. Medina, José Manuel; JOSÉ ANTONIO DÍAZ NAVAS. Fluctuation scaling in the visual cortex at threshold. *Physical Review E (Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics)*. 93 -5, pp. 05240. 2016.

7. Medina, José Manuel; JOSÉ ANTONIO DÍAZ NAVAS. Extreme reaction times determine fluctuation scaling in human color vision. *Physica.. A, Statistical Mechanics and its Applications*. 461, pp. 125 -132. 2016.
8. Medina, José Manuel; JOSÉ ANTONIO DÍAZ NAVAS. Noise-induced transition in human reaction times. *Journal of Statistical Mechanics: Theory and Experiment*. 2016 -9, pp. 093502. 2016.
9. Medina, José Manuel; Wong, Willy; JOSÉ ANTONIO DÍAZ NAVAS; Colonius, Hans. Advances in modern mental chronometry. *Frontiers in Human Neuroscience*. 9, pp. 256. 2015.
10. Medina, José Manuel; JOSÉ ANTONIO DÍAZ NAVAS. Classification of batch processing automotive metallic coatings using principal component analysis similarity factors from reflectance spectra. *Progress in organic coatings (Print)*. 88, pp. 75 -83. 2015.
11. Mahajan, Virendra; JOSÉ ANTONIO DÍAZ NAVAS. Comparison of Geometrical and Diffraction Optical Transfer Functions. *Current Developments in Lens Design and Optical Engineering XVI*. 9578, pp. 957806. 2015.
12. Medina, José Manuel; JOSÉ ANTONIO DÍAZ NAVAS. Commentary: Piéron's law is not just an artifact of the response mechanism. *Frontiers in Physiology*. 6, pp. 190. 2015.
13. Medina, José Manuel; JOSÉ ANTONIO DÍAZ NAVAS; Vukusic, Pete. Classification of peacock feather reflectance using principal component analysis similarity factors from multispectral imaging data. *Optics Express*. 23 -8, pp. 10198. 2015
14. Medina, José Manuel; JOSÉ ANTONIO DÍAZ NAVAS. Advances in Industrial Color Testing of Automotive Metallic Finishes. *Photonics Spectra*. 49 -4, pp. 63 -66. 2015
15. JOSÉ ANTONIO DÍAZ NAVAS; Navarro, Rafael. Orthonormal polynomials for elliptical wavefronts with an arbitrary orientation. *Applied optics*. 53 -10, pp. 2051 -2057. 2014.
16. Medina, Jose Manuel; JOSÉ ANTONIO DÍAZ NAVAS; Valero, Eva; Nieves, Juan Luis; Vukusic, Peter. Detailed experimental characterization of reflectance spectra of *Sasakia charonda* by using multispectral optical imaging. *Optical Engineering*. 53 -3, pp. 0033111-1-15. 2014
17. Medina, Jose Manuel; JOSÉ ANTONIO DÍAZ NAVAS; Vignolo, Carlos. Fractal dimension of sparkles in automotive metallic coatings by multispectral imaging measurements. *ACS Applied Material & Interfaces*. 6 -14, pp. 11439 -11447. 2014.
18. Medina, Jose Manuel; JOSÉ ANTONIO DÍAZ NAVAS; Norwich, Ken. A theory of power laws in human reaction times: Insights from an information-processing approach. *Frontiers in Human Neuroscience*. 8 -621, pp. 1 -4. 2014.
19. Navarro, Rafael; López, José Luis; JOSÉ ANTONIO DÍAZ NAVAS; Perez-Sinusia, Esther. Generalization of Zernike polynomials for regular portions of circles and ellipses. *Optics Express*. 22 -18, pp. 21263 -21279. 2014.
20. JOSÉ ANTONIO DÍAZ NAVAS; Mahajan, Virendra. Orthonormal aberration polynomials for optical systems with circular and annular sector pupils. *Applied Optics*. 52 -6, pp. 1136 -1147. 2013.
21. Mahajan, Virendra; JOSÉ ANTONIO DÍAZ NAVAS. Imaging characteristics of Zernike and annular polynomial aberrations. *Applied optics*. 52 -10, pp. 2062 -2074. 2013
22. Medina, Jose Manuel; JOSÉ ANTONIO DÍAZ NAVAS. Characterization of reflectance variability in the industrial paint application of automotive metallic coatings by using principal component analysis. *Optical Engineering*. 52 -5, pp. 051202. 2013.
23. JOSÉ ANTONIO DÍAZ NAVAS; Mahajan, Virendra. Imaging by a system with a hexagonal pupil. *Applied Optics*. 52 -21, pp. 5112 -5122. 2013.
24. JOSÉ ANTONIO DÍAZ NAVAS; Mahajan, Virendra. Study of Zernike polynomials of an elliptical aperture obscured with an elliptical obscuration: comment. *Applied Optics*. 52 -24, pp. 5962 -5964. 2013.

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