



Francisco Díaz

Barrancas

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PhD Student

University of Extremadura

Francisco-diaz-barrancas.github.io

Research Summary

My research spans several areas of visual computing, in particular: hyperspectral images, colour appearance and virtual reality, with a focus on applying perceptually-motivated solutions. The main objective of my research area is the improvement of the visual appearance in virtual reality devices through computer techniques.

Education

Oct 2018-
Present

Ph.D. in Computer Science

Centro Universitario de Mérida, University of Extremadura, Spain, Advisor: Prof. Pedro José Pardo.

Sep 2017 -
Jun 2018

Research Master in Computer Science (M.Sc.)

Centro Universitario de Mérida, University of Extremadura, Spain, Advisor: Prof. Pedro José Pardo.

-Thesis: "Study of reproduction chromatic fidelity in virtual reality devices"
(Average grade: 9.82/10)

Sep 2014 -
Jun 2017

Bachelor degree in Computer Science (B.Sc.)

Centro Universitario de Mérida, University of Extremadura, Spain, Advisor: Francisco Chávez de la O.

(Average grade: 7.86/10)

Research experiences

Oct 2017 -
Present

Researcher at the Orion Group

Centro Universitario de Mérida, University of Extremadura, Spain, Advisor: Prof. Pedro José Pardo.

Oct 2019 -
Dec 2020

PhD Stay at the MIPS Group

Università Degli Studi di Milano (Milano, Italy). Advisor: Prof. Alessandro Rizzi.

Jun 2019 -
Jun 2019

Summer School Student (UBISS 2019)

Oulu University (Oulu, Finland).

Publications

Journal publications

- 2020 **Colour appearance in immersive three-dimensional virtual environments**
Francisco Díaz-Barrancas*, Halina Cwierz, Pedro J. Pardo, Ángel Luis Pérez and María Isabel Suero
Coloration Technology.
- 2020 **Spectral Color Management in Virtual Reality Scenes**
Francisco Díaz-Barrancas*, Halina Cwierz, Pedro J. Pardo, Ángel Luis Pérez and María Isabel Suero
Sensors.

Teaching

- 2020 **Programming Fundamentals**
Centro Universitario de Mérida, University of Extremadura, Spain.
- 2019, 2020 **Multimedia communication system**
Centro Universitario de Mérida, University of Extremadura, Spain.

Last updated: 19th December 2020.