

WEBINARS PHOTONICS MEDIA photronics.com

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Hands-On Digital Light: Spectral Design Tools for Human-Centric Lighting and Related Applications

Thursday, September 12, 2019 10:00 AM - 11:00 AM EDT

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About This Webinar

This webinar is intended to be a primer on practical spectral design. It will begin with a short review of the most promising spectral technologies and the current state-of-the-art. The presenters will delve into the details of spectral design through a series of practical implementations, using one of the most versatile programming languages, Python (no previous knowledge is required, although it may be helpful). A link will be provided to a Python Jupyter Notebook so that you can follow and execute every line of code.

In this guided exploration of spectral optimization, you will learn how to calculate the spectral parameters of thousands of metamers through parallelization and vectorization with the LEDMOTIVE API, and build an optimized 24-hour circadian light sequence (changing at a rate of one spectrum per second) as a case study. The webinar will conclude with a recap that will put what you have learned into perspective and provide lighting professionals with detailed guidelines on real-world implementations for a broad range of applications.

About the presenters:

Josep Carreras, Ph.D., is president, founder, and CTO of the startup LEDMOTIVE. He received B.S., M.S., and doctoral degrees in physics from the University of Barcelona. He has authored more than 60 peer-reviewed scientific articles, holds 30 patents, and has participated in more than 20 different international research projects. Carreras served as the director of the Lighting Group at the Catalonia Institute for Energy Research (IREC) from 2009 to 2017, working on novel concepts for energy-efficient lighting, color science and technology, simulations, photometry, and spectral design. He participates in several technical committees of the International Commission on Illumination (CIE).

Aleix Llenas received his B.S. degree in physics from the University of Barcelona and his M.S. degree in photonics from the Universitat Politècnica de Catalunya (UPC). He has worked on several international research projects in optics, photonics, and nanotechnology. He also worked for the Nippon Telegraph and Telephone Corporation (NTT) in Japan before joining the Catalonia Institute for Energy Research (IREC), where he is conducting research with multichannel LED light engines within the R&D team at LEDMOTIVE.

Who should attend:

Lighting designers and technicians; optical designers; lighting engineers; students, researchers, and educators in photonics and optics; and anyone who has an interest in learning more about spectrally tunable lighting for work places, public spaces, scientific applications, hospitals, video and cinema production, and consumer use.

Webinar attendees will be entered in a drawing to receive a free copy of *Light: Introduction to Optics and Photonics* (Photonics Media Press, 2018). The drawing will take place at the close of the webinar.



Mark Your Calendar

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Space is limited. Reserve your Webinar seat now at: <https://attendee.gotowebinar.com/register/2253728757153189633>

After registering you will receive a confirmation email containing information about joining the Webinar.

SYSTEM REQUIREMENTS

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Required: Windows® 10, 8, 7, Vista, XP or 2003 Server

Mac® -based attendees

Required: Mac OS® X 10.6 or newer

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Required: iPhone®, iPad®, Android™ phone or tablet, Windows 8 or Windows Phone 8

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