

The logo for iGroup, featuring a small yellow square above the letter 'i' in the word 'iGroup', which is rendered in a bold, black, sans-serif font.

iGroup

A background image of a library with tall bookshelves filled with books, viewed from a low angle looking up. The image is overlaid with a semi-transparent white rectangular box containing the title text. The bottom of the page features a decorative orange and yellow curved graphic element.

SPIE（国际光学工程学会）数字图书馆 使用指南

提纲 CONTENTS



-  **1 SPIE 出版社介绍**
——背景、学会、学科与应用领域
-  **2 SPIE 出版物介绍**
——会议录、期刊、电子图书
-  **3 SPIE Digital Library 平台说明**
——浏览、检索、远程访问

SPIE. (国际光学工程学会)

- SPIE (the International Society for Optics and Photonics) 成立于1955年，服务于来自约183个国家超过256,000名成员。其目的是通过跨学科信息交流、继续教育、专利项目、职业和专业发展，促进新兴学科进步。
- 国际光学工程学会每年主办召开300多场国际性和地区性学术会议和展览，所形成的会议录文献反映了光学工程应用领域的最新进展和动态。

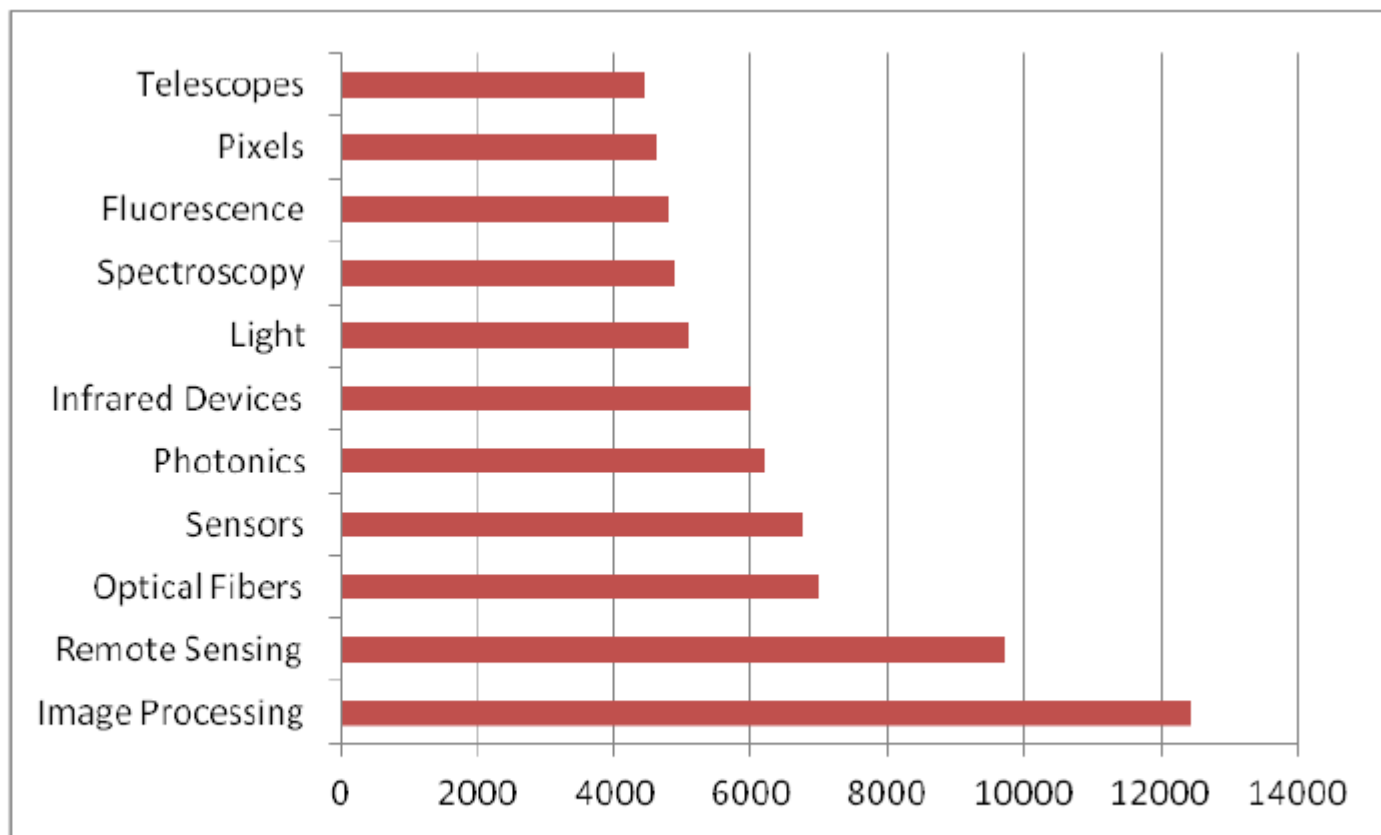


SPIE. 光学与光子学及相关学科

- 天文学
- 生物医学光学
- 国防与安全
- 电子影像与信号处理
- 照明与显示
- 激光技术
- 刻蚀技术
- 纳米科技
- 光学设计与光学工程
- 光通讯
- 物理学
- 遥感
- 测量与传感
- 太阳能及可替代能源

SPIE. 常用关键词涵盖多个光学的应用领域

- 望远镜 (天文)
- 像素 (电子)
- 荧光性 (理化)
- 光谱法 (理化)
- 光 (照明)
- 红外设备 (传感)
- 光子 (理化)
- 感应器 (传感)
- 光纤 (通讯)
- 遥感 (传感)
- 图像处理 (电子)

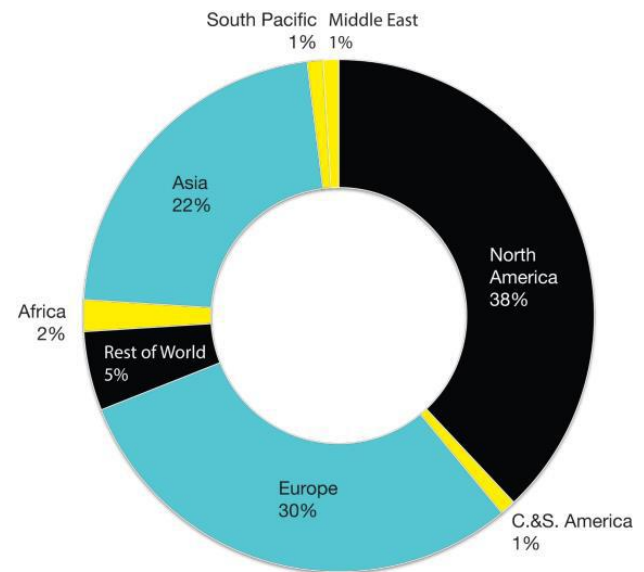


* 以上图表均来自近十年数据。

SPIE Digital Library (数字图书馆)

- 世界上最大的光学和光子学文献资料库，超过11,000卷 **SPIE会议录**，年新增350卷，首卷可回溯至1963年。
- 12种光学**核心期刊**，首卷回溯至1962年 (*Optical Engineering*)
- 超过400种 **电子图书** (1989~2019年)
- SPIE 文献作者来自全球各地，且越来越多来自中国和其他亚太地区的作者投稿。

北美 38%
欧洲 30%
亚太 22%



SPIE Conference Proceedings (会议录)

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➤ **SPIE 会议录**：国际光学工程学会每年主办召开300多场国际性和地区性学术会议和展览，所形成的会议录文献反映了光学工程应用领域的最新进展和动态，也汇集了光学工程、物理、光学仪器、遥感、激光器、机器人及其工业应用、光电子学、图像处理和计算机等方面的最新研究成果。

➤ **收录总量**：超过49万篇，11,000+卷

➤ **更新频率**：每年更新300-350卷

➤ **收录年限**：1963年至今

➤ **视频讲义数量**：超过36,000个



高品质：据美国专利与商标局统计，SPIE会议录文献已被7万多项已授权专利和3.5万篇申请中的专利引用。大部分会议录被CPCI-S（科学技术会议录索引）、EI（工程索引）收录。

知名订购机构：NASA美国国家航空航天局，ESA欧洲航天局，通用集团，洛克希德·马丁，美国国防分析研究院，国家实验室，霍尼韦尔，西门子等。

近年在中国举办的SPIE知名会议和论坛：

中国会议亚太遥感论坛（SPIE Asia-Pacific Remote Sensing）

模式识别国际研讨会（IWPR） / 数字图像处理国际会议（ICDIP）

机器人与机器视觉国际会议（ICRMV）

激光技术和工业应用高级光刻论坛（SPIE LASE）

环太平洋激光损伤论坛（Pacific Rim Laser Damage）（与上海光机所合办）

先进光学制造和测试技术国际研讨会（AOMATT）（与中国光学会合办）

SPIE服务来自183个国家的超过256,000个成员。提供各种会议和出版的会议录、继续教育、书、期刊和SPIE数字图书馆资源。

每年，SPIE都会表彰那些在光学和光子学方面取得杰出成就的人，这些成就推动了基于光的研究和技术。2019年，SPIE提供了超过560万美元的社区支持，包括奖学金和奖项、外展和宣传项目、差旅补助、公共政策和教育资源。

SPIE协会支持&奖项





“SPIE会议录拥有你从别处无法获取的信息，这些内容未在其他地方出版。”

Merete Raarup, Assistant Professor
University of Aarhus, Denmark

“有许多多科研团队在这些会议上呈现他们的研究成果……通过SPIE会议录，这些极具价值的资料可以即刻获得。”

Ruth Mackey, Applied Optics Group
National University of Ireland, Galway



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会议录和期刊的不同特点

背景知识

会议录和期刊可作为互补资源使用。在传播最新科研成果和技术手段方面，相较于期刊，会议录更具备博采众长、新颖、快速的特点。

- 在会议录中，作者可以报告正在进行中的研究，而期刊通常不可以。
- 对于计算机、电子和工程技术等工业领域，会议录被阅读、引用的机会大于期刊。

PROCEEDINGS ATTRIBUTES

- Collectively, a record of a conference that reflects state of the art at that time and over time for a continuing series
- Individually, a snapshot of a researcher's project
- The preferred publication for researchers in industry
- A place to publish preliminary findings
- Inconclusive or negative results may be shown, to help others learn
- A means for learning how to write research papers for students
- Reviewed by the conference chairs and program committee; the final paper may reflect this "peer review"
- Inclusive and diverse

谁更适合在会议录中发文？

1. 计算机、电子和工程技术等工业领域的研究人员
2. 想要抢占专利注册先机的企业研究人员
3. 不吝嗇于探讨、分享阶段性研究成果的人
4. 刚刚开始发表论文的本科或研一学生

SPIE Journals (期刊)

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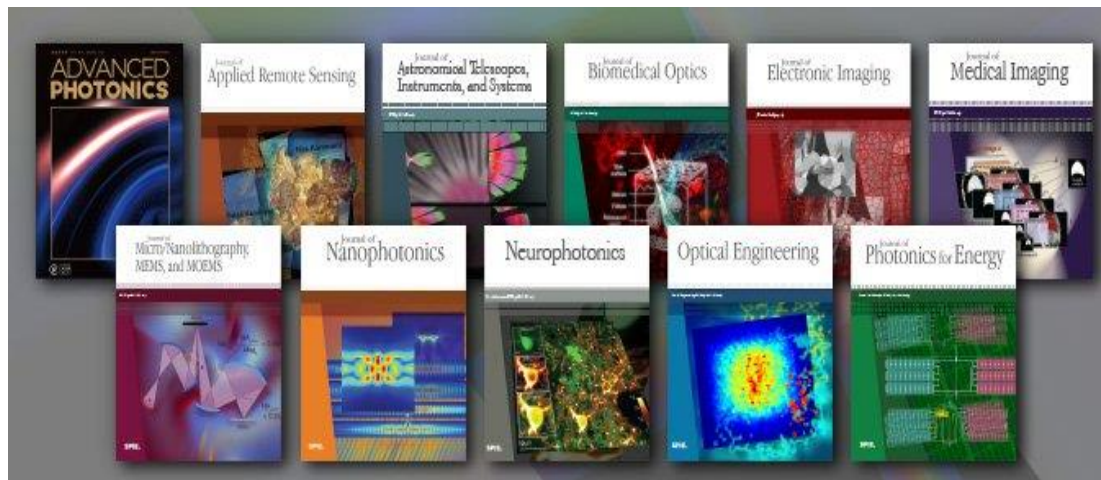
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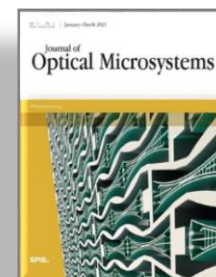
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➤ **SPIE 期刊**：国际光学工程学会出版12种同行评审的专业学术期刊，其中9种被SCI收录，年度平均影响因子1.642。除了**光学工程**和**光子学**，SPIE 期刊还涉及**电子电气工程**、**生物医学工程**、**环境工程**、**材料科学**、**天文学**、**成像学**、**纳米科学**、**神经科学**等交叉学科的前沿研究领域。



NEW!



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SCI收录	9种	最高影响因子	3.593 《神经光子学》
更新频率	每年 60 多期	最高引用次数	16,000+ 《生物医学光学期刊》
收录年限	1962 年至今		10,600+ 《光学工程》

Optical Engineering 《光学工程》	Journal of Applied Remote Sensing 《遥感应用杂志》
Journal of Biomedical Optics 《生物医学光学期刊》	Journal of Nanophotonics 《纳米光子学杂志》
Journal of Electronic Imaging 《电子成像期刊》	Journal of Photonics for Energy 《能源光子学期刊》
Journal of Medical Imaging 《医学成像期刊》	Neurophotonics 《神经光子学》
Journal of Micro/Nanopatterning, Materials, and Metrology 《微/纳米图案化，材料与计量学期刊》	Advanced Photonics 《先进光子学》
Journal of Astronomical Telescopes, Instruments, and Systems 《天文望远镜、仪器及系统期刊》	Journal of Optical Microsystems 《光学微系统》

SPIE eBooks (电子图书)



➤ 四种类型的图书：

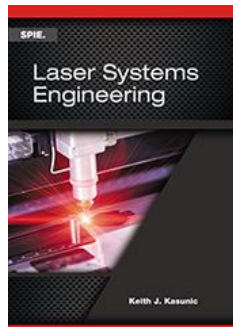
- 专著 (Monographs)
- 辅导教程 (Tutorial Texts)
- 实践指南 (Field Guides)
- 热点系列 (Spotlights)

➤ 每年新增超过25种新书

- 1989~2019年出版超过400多种电子图书，
且在不断更新



SPIE 电子图书受到专业人士广泛好评。



Laser Systems Engineering 《激光系统工程》

ISSN: 9781510604261

出版年: 2016

页数: 328

作者: Keith J. Kasunic (美国中佛罗里里达大学光学和光子学院副教授)

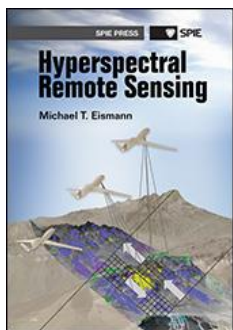
"This book will be a valued tool for the laser professional who either has a broad experience and is looking to architect an integrated system or one who has great depth in a particular area and is looking to transition into the systems-engineering realm."

-Tim J. Valle, Staff Consultant, Ball Aerospace & Technologies Corporation

“对于激光学专业人员，这本书如同一件有价值的工具，无论你从业经验广泛、正在塑造一个多领域集合系统，还是在某个领域造诣深厚、而希望向系统工程转型。”

----**Tim J. Valle**, 美国Ball Aerospace公司咨询部

SPIE 电子图书受到专业人士广泛好评。



Hyperspectral Remote Sensing 《高光谱遥感》

ISSN : 9780819487872

出版年 : 2012

页数 : 748

作者 : Michael T. Eismann

(美国空军研究实验室感应器理事会资深科学家、 SPIE 《光学工程》 副主编)

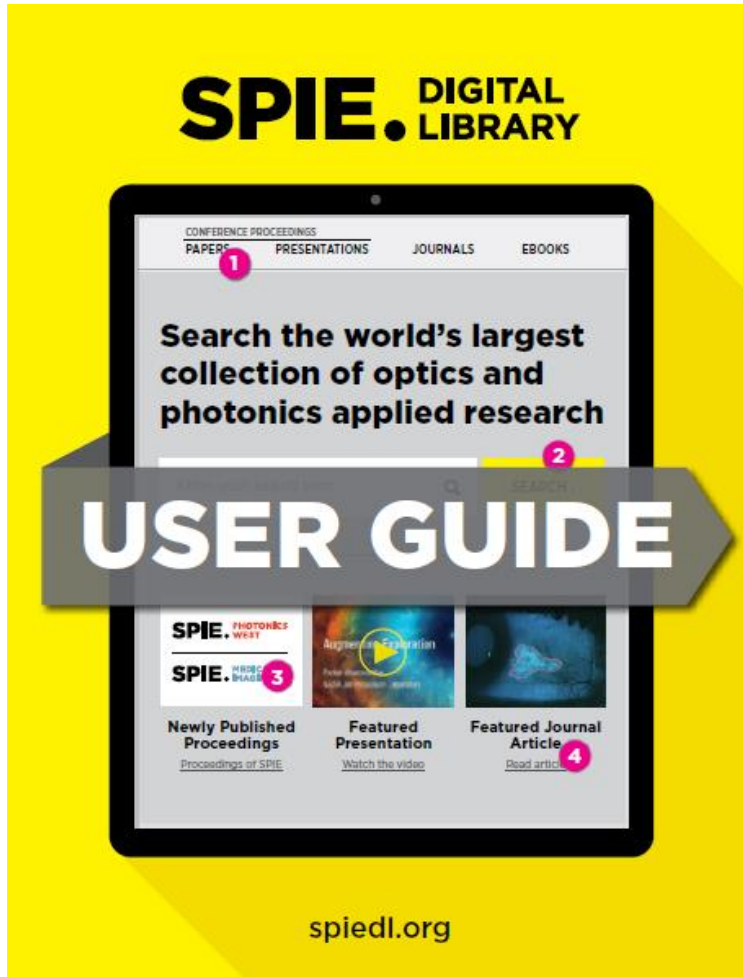
★★★★★ Excellent text for a broad graduate level introduction

By [tvince](#) on March 24, 2013

Format: Hardcover

This is an excellent graduate level text and one of the few that is actually based upon the underlying physics of how light interacts with matter. Many other remote sensing texts are based mostly upon a specific application of remote sensing with a bit of physics sprinkled in when needed. The flow of the material presented is quite natural; beginning with classical E&M radiation, transitioning to fundamental quantum mechanics as applied to atmospheric spectroscopy, and concluding with optical design and data modeling. This other remote sensing book I have read hits all the fundamentals in such a succinct manner. Be warned, this book does

“这是一本很棒的研究生入门书，对于研究生水平的读者，这是一本很好的书，是一本真正基于光与物质间相互作用的物理原理的书。很少有书能这样写——其他遥感的书大都在写某项特定应用，而很少谈及物理原理。书中呈现了一系列自然的材料，以经典的E&M辐射为开篇，进而探讨应用于大气光谱中的基础量子力学原理，最后以光学设计和数据模拟技术为结尾……这本书专为一年级研究生而设。必读！ ---（3人认为这条评价有用）



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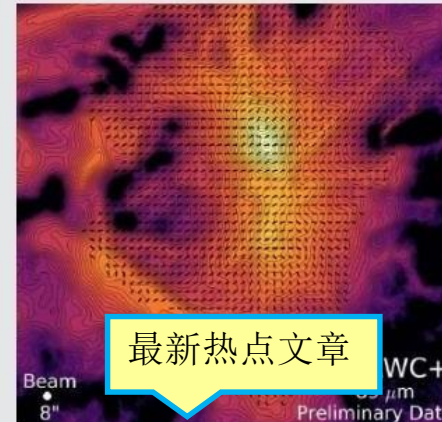


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Featured Article

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[First flight of the Gamma-Ray Imager/Polarimeter for Solar flares \(GRIPS\) Instrument](#)

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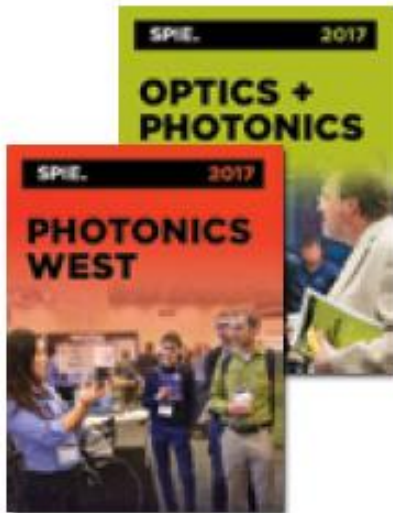


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July 2018

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Image reconstruction using priors from deep learning

Devi Ayyagari, Nisha Ramesh, Dimitri Yatsenko, Tolga Tasdizen, Cristain Atria (2018)

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Full Text HTML

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The 1991-2016 archive of the ICSO Proceedings is a resource made freely available to serve the space optics and astronomy communities.



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Next decade in infrared detectors

A. Rogalski (2017)

Unmanned aerial vehicles in astronomy

Federico Biondi et al. (2016)

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BY VOLUME NO.

SPIE. SMART
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NDE

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Denver, Colorado, United
States

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LITHOGRAPHY

25 February - 1 March
2018
San Jose, California,
United States

SPIE. MEDICAL
IMAGING

10-15 February 2018
Houston, Texas, United
States

SPIE. PHOTONICS
WEST

27 January - 1 February
2018
San Francisco, California,
United States

SPIE. NANOPHOTONICS
AUSTRALASIA

10-13 December 2017
Melbourne, Australia

选择一个SPIE 会议

16-19 October 2017
Rochester, New York,
United States

SPIE. LASER
DAMAGE

24-27 September 2017
Boulder, Colorado, United
States

SPIE. PHOTOMASK
TECHNOLOGY +
EUV LITHOGRAPHY

11-14 September 2017
Monterey, California,
United States

SPIE. REMOTE
SENSING

11-14 September 2017
Warsaw, Poland

SPIE. SECURITY+
DEFENCE

11-14 September 2017
Warsaw, Poland

— SPIE Smart Structures and Materials + Nondestructive Evaluation and Health Monitoring

— 2018

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Volume	Volume Title
<u>10593</u>	<u>Bioinspiration, Biomimetics, and Bioreplication VIII</u>
<u>10594</u>	<u>Electroactive Polymer Actuators and Devices (EAPAD) XX</u>
<u>10595</u>	<u>Active and Passive Smart Structures and Integrated Systems XII</u>
<u>10596</u>	<u>Behavior and Mechanics of Multifunctional Materials XII</u>
<u>10597</u>	<u>Nano-, Bio-, Info-Tech Sensors, and 3D Systems II</u>
<u>10598</u>	<u>Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2018</u>
<u>10599</u>	<u>Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, Civil Infrastructure, and Transportation XII</u>
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T. A. Lenau; A.-L. Metzke; T. Hesselberg

Proc. SPIE 10593, Paradigms for biologically inspired design, 1059302 (27 March 2018); doi: 10.1117/12.2296560

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Bioinspired pitch control using a piezoelectric horizontal tail for rudderless UAVs  Presentation + Paper

Lawren L. Gamble; Daniel J. Inman

Proc. SPIE 10593, Bioinspired pitch control using a piezoelectric horizontal tail for rudderless UAVs, 1059303 (27 March 2018); doi: 10.1117/12.2287471

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Gianluca Amendola; Ignazio Dimino; Antonio Concilio; Rosario Pecora; Francesco Amoroso; Leonardo...

Proc. SPIE 10593, Technological demonstration of an adaptive aileron system, 1059304 (27 March 2018); doi: 10.1117/12.2297083

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27 March 2018

Paradigms for biologically inspired design

T. A. Lenau; A.-L. Metzger; T. Hesselberg;

[Author Affiliations +](#)

Proceedings Volume 10593, Bioinspiration, Biomimetics, and Bioreplication VIII; 1059302 (2018); doi: 10.1117/12.2296560

Event: SPIE Smart Structures and Materials + Nondestructive Evaluation and Health Monitoring, 2018, Denver, Colorado, United States

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...fers access to a huge biological repository of well proven design principles that can be used for developing new and innovative products. Biological phenomena can inspire product innovation in as diverse areas as mechanical engineering, medical engineering, nanotechnology, photonics, environmental protection and agriculture. However, a major obstacle for the wider use of biologically inspired design is the knowledge barrier that exist between

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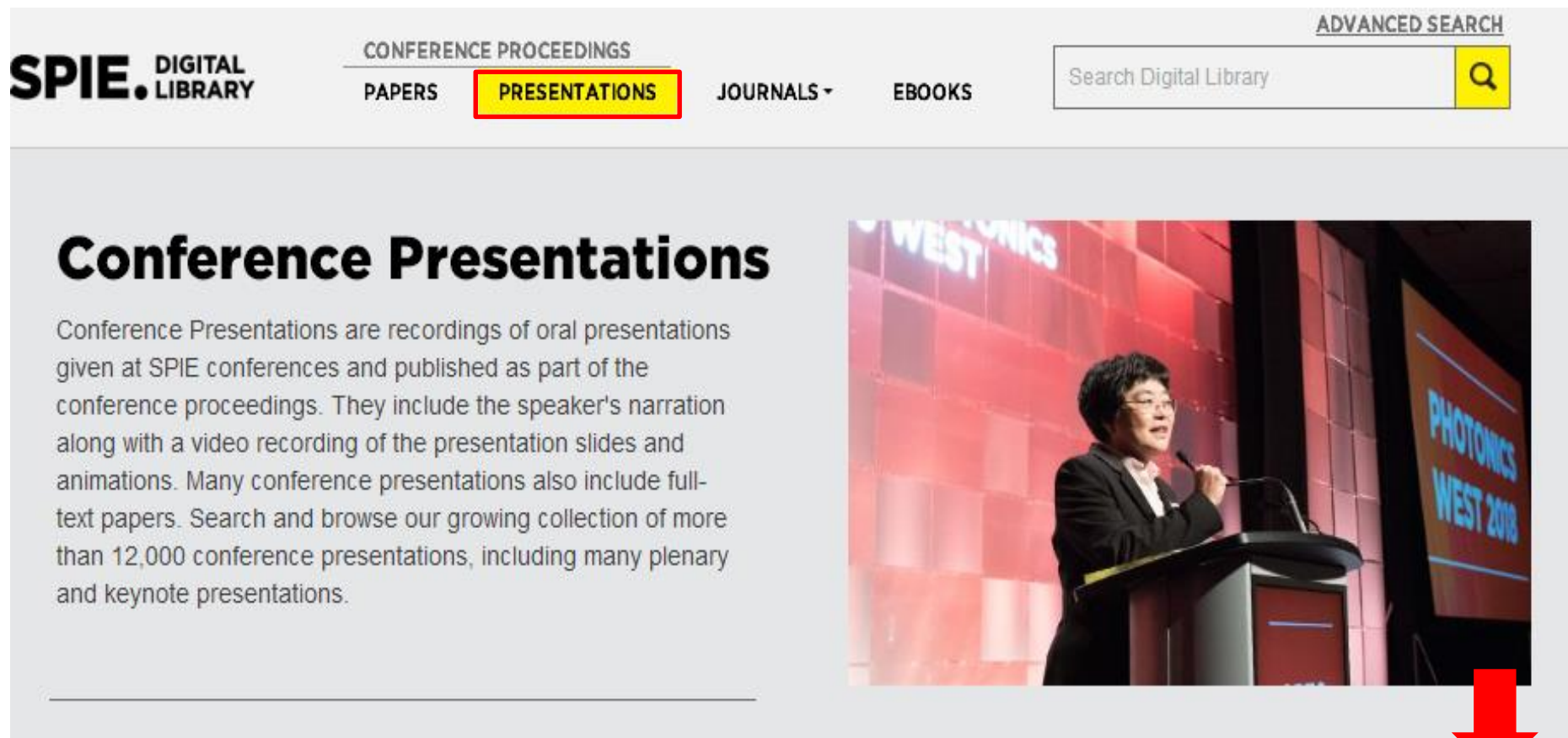
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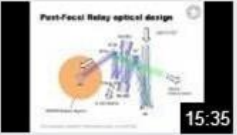



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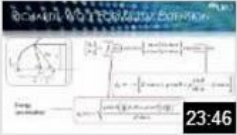

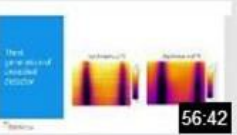
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Hyperspectral evaluation of skin blood oxygen saturation at baseline and during arterial occlusion

Z.Marcinkevics¹, U.Rubins², A.Grabovskis², J.Cimurs², A.Caica¹
zbigis@latnet.lv

¹Department of Human and Animal Physiology, University of Latvia
²Biophotonics Laboratory Institute of Atomic Physics and Spectroscopy, University of Latvia

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Hyperspectral evaluation of skin blood oxygen saturation at baseline and during arterial occlusion

Authors: Z. Marcinkevics et al.
Publication Date: 17 May 2018

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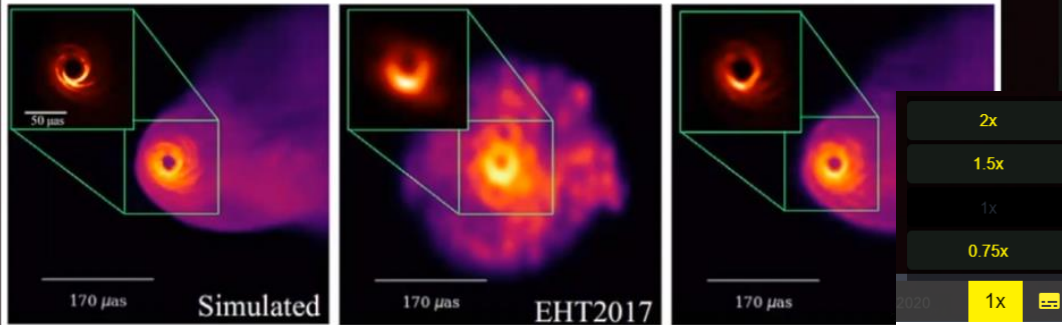
From Event: SPIE Photonics Europe, 2018

Abstract

Skin capillary blood oxygen saturation is a clinically important diagnostic parameter, which provides valuable information for timely treatment of pathological conditions e.g. sepsis, hypoxemia or decompression illness. Hyperspectral imaging is non-invasive optical techniques with high clinical

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to existing large apertures,
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A. Chael.

The Event Horizon Telescope: the impact of an image and finding Powehi

Author: Jessica T. Dempsey

Publication Date: 14 December 2020

▶ Presentation

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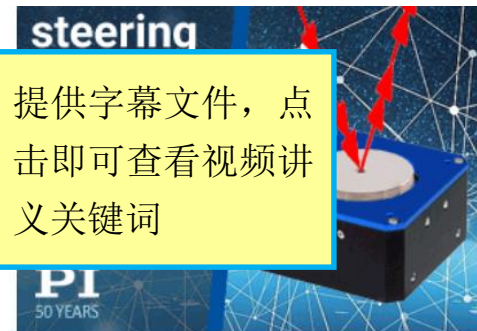


Hello. My name is Jessica Dempsey. Thank you for joining me. It is my privilege to present to you today an overview of the technical achievements made by the Event Horizon Telescope collaboration. I will describe how the EHT membership gave the world the image of the shadow around the supermassive black hole at the heart of the M87 galaxy and the story of its Hawaiian name, Powehi.

The image of the shadow at the center of the M87 galaxy resonated around the world in a unique way. Following on from the foundations of Einstein's theory of general relativity-- the theoretical leaps of Schwarzschild, Kerr, Hawking, Penrose, and many more-- Luminet in 1979 was one of the first to sketch and then animate the distortions of matter and light around a black hole that

steering

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影响的一般相对论只是外面的事件视界的一个黑色的洞可以被直接观察到。在模拟的Luminet显示的是对于一个黑孔嵌入在一个几何薄光学厚吸积盘，所述光子捕获半径会出现到一个遥远的观察者作为一个薄发射环内一个带透镜的图像的吸积盘。

对于吸积黑色孔嵌入在一个几何厚光学薄发射区域，该组合的一个事件地平线和光弯曲引线到的外观的一个暗阴影，一起与一个明亮的发射环的是应是可检测的通过VLBI实验。它的形状可以出现作为一个新月如果有是快速旋转和相对论[听不清]。

所谓的光子环对应于线的视线的是通过靠近到不稳定光子 orbits-- 留连附近的照片上 orbits-- 和因此有一个长路径长度通过所述发射等离子体。这些线的视线将出现相对亮如果所述发射等离子体是薄。这中央通量抑郁症是该黑孔的影子和对应于行的视线是终止上的事件视界。

的大小和形状的一个黑色孔光子球体涉及直接向所述固有性质的所述黑孔。该直径允许我们来直接测量的黑孔质量。我们可以测试预测的一般相对论。任何旋在负责将是明显的不对称在所述照射轮廓。所以成像一个黑色的洞的阴影提供了一个新的实验室的理解物理学在其最极端的可观测环境。



50 Ways to Use a Hexapod

用谷歌浏览器，安装翻译插件后，可以将字幕文件自动翻译为中文



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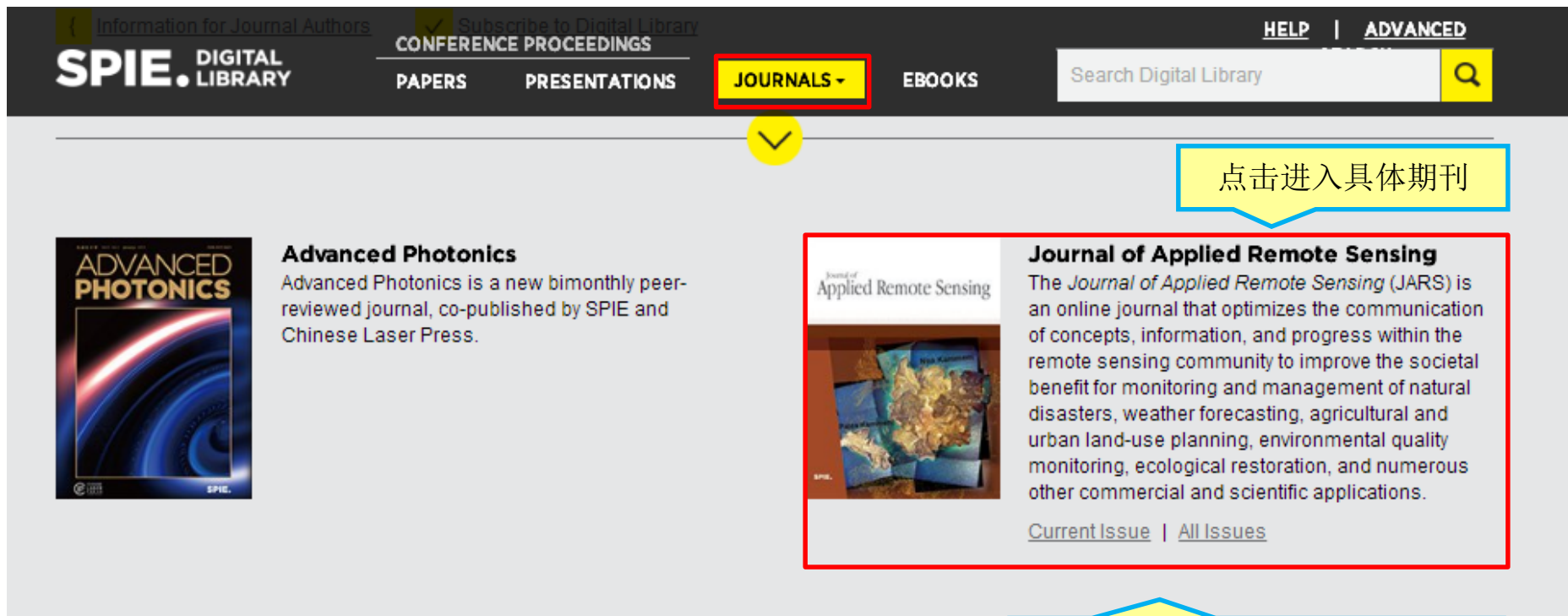
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Journal of Applied Remote Sensing

Editor-in-Chief: Ni-Bin Chang, University of Central Florida

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Abstract In recent years, deep learning (DL) has emerged in numerous areas, ranging from image recognition to natural language processing. Whereas remote sensing has unique challenges, primarily related to sensors and applications, in this paper, we provide a comprehensive survey of DL approaches and applications in machine learning, remote sensing, and their advances such as DL. This paper provides a comprehensive survey of DL in the DL field that can be used in remote sensing community. Specifically, we discuss (i) data sets, (ii) human-machine interaction, (iii) nontraditional machine learning, and (iv) spatial and temporal DL systems.	1 Introduction 2 Related Work in CV 2.1 Traditional Feature Learning Methods 2.2 DL Approaches 2.2.1 Autoencoder 2.2.2 Convolutional neural network 2.2.3 Deep belief network and deep Boltzmann machine			

KEYWORDSRemote sensingData modeling

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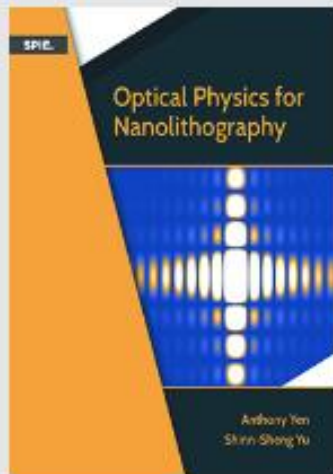
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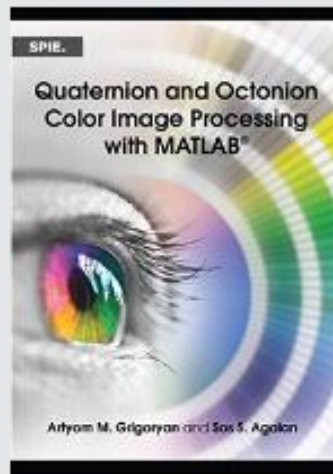
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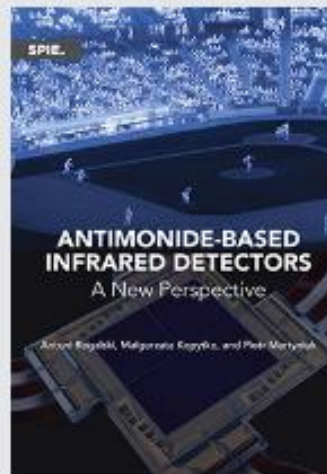
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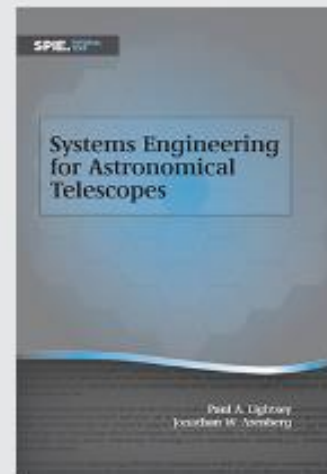
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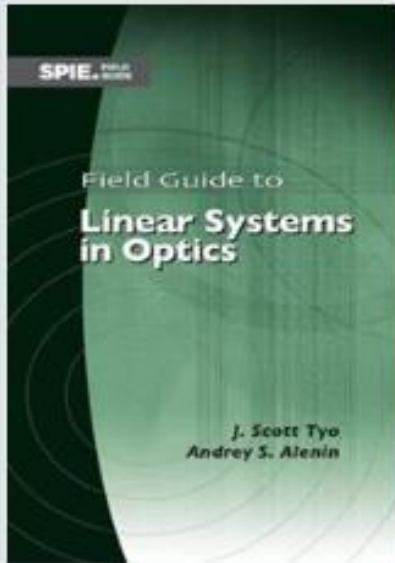
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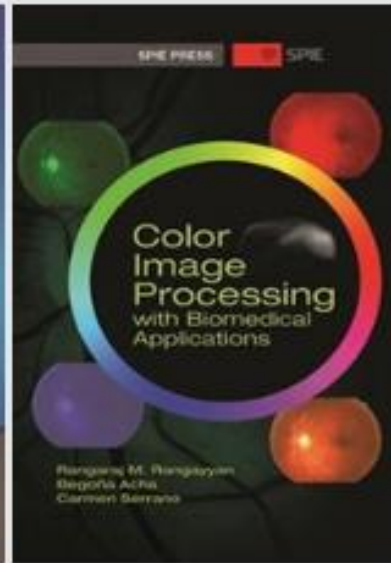
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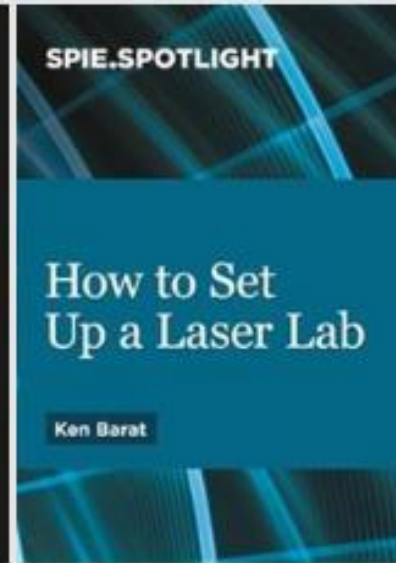
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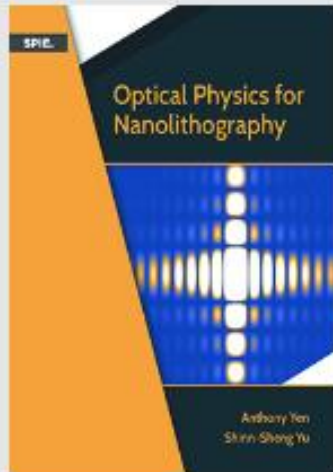
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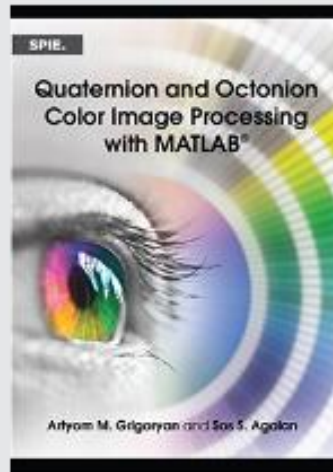
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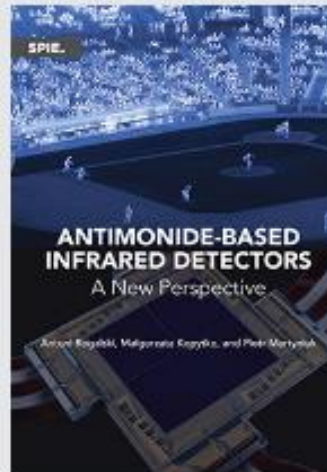
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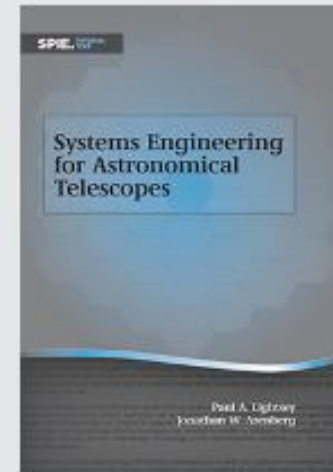
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Author(s): [Anthony Yen](#); [Shinn-Sheng Yu](#)

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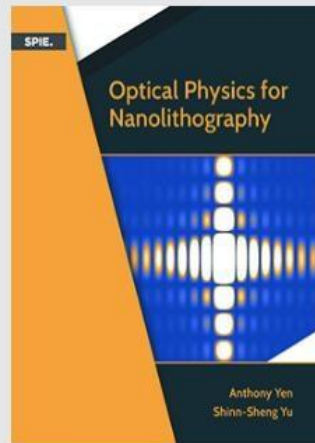
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This book provides an in-depth, self-contained introduction of partially coherent imaging theory for researchers and engineers working on optical lithography for semiconductor manufacturing, including those in the EDA industry. It is mathematically complete: the opening chapters discuss presented with their intermediate steps. For notations are used throughout the text. Full-color and equations.

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CHAPTER 1.

Mathematical Preliminaries

Chapter Outline -

- 1.1 Mean-Value Theorems of Integral Calculus
- 1.2 The Delta Function
 - 1.2.1 Representations of the delta function
 - 1.2.2 Properties of the delta function
- 1.3 Weierstrass' Approximation Theorem
- 1.4 Fourier Transform

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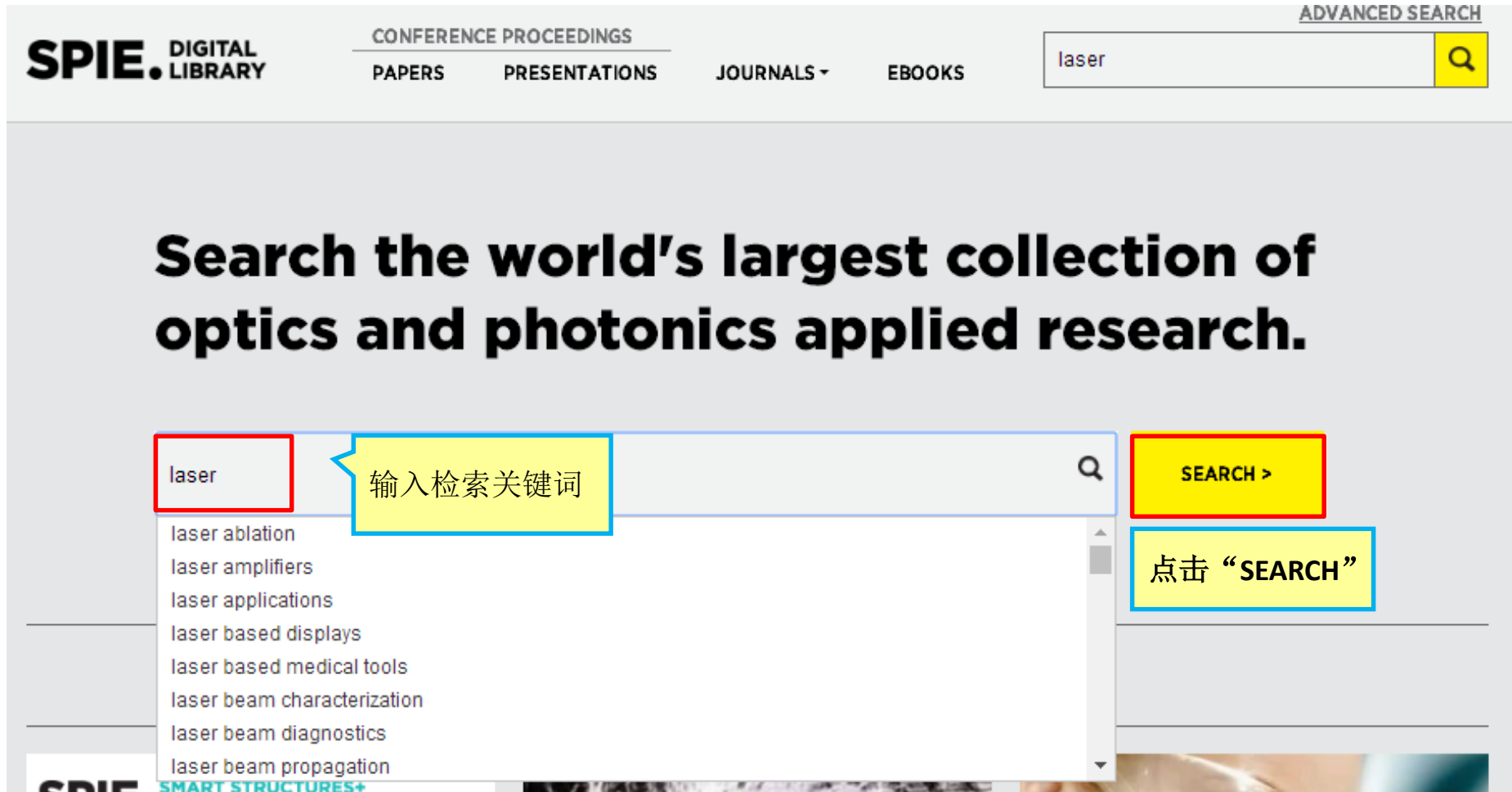


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Proc. SPIE. 668, Laser Processing: Fundamentals, Applications, and Engineering

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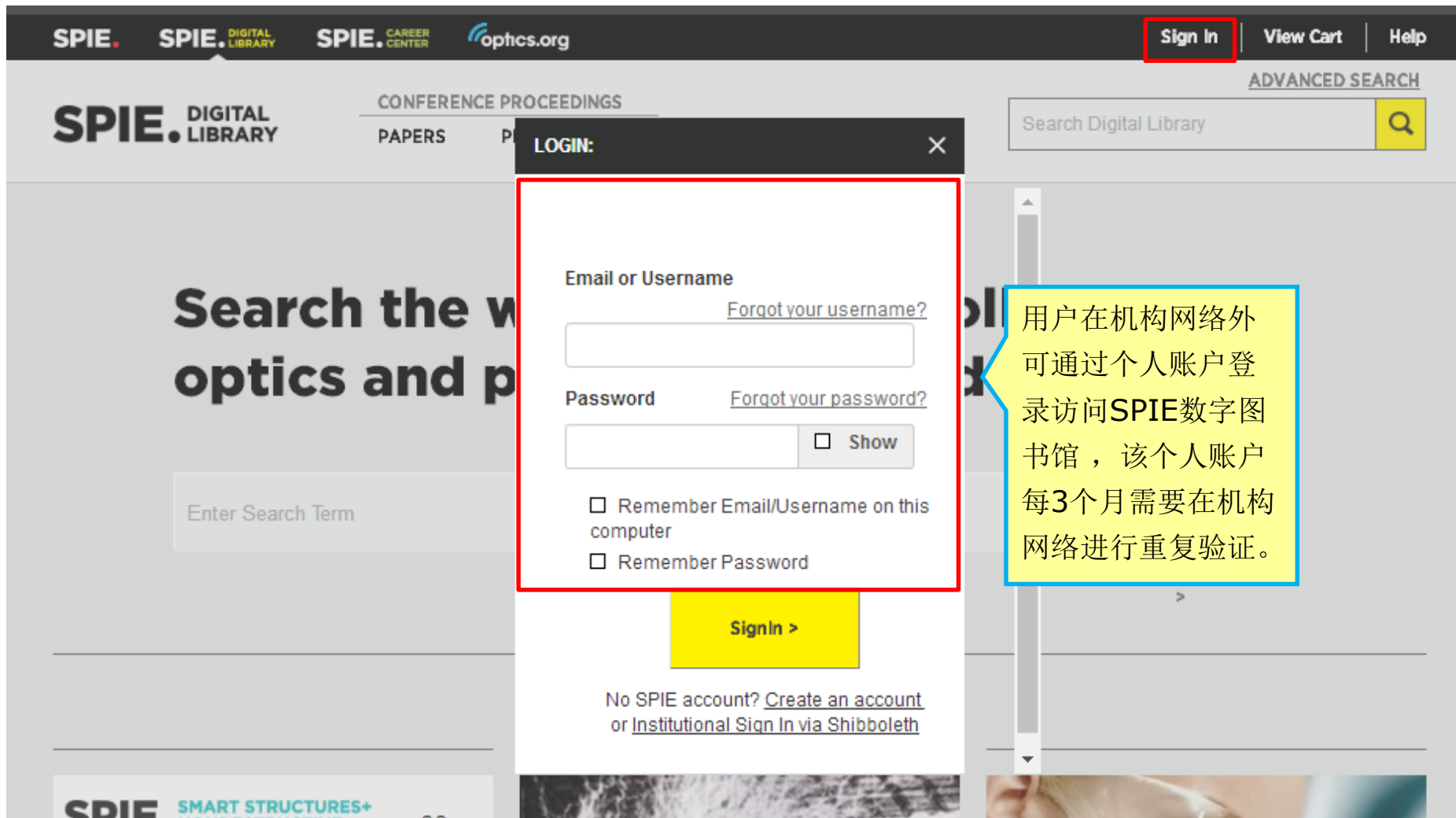
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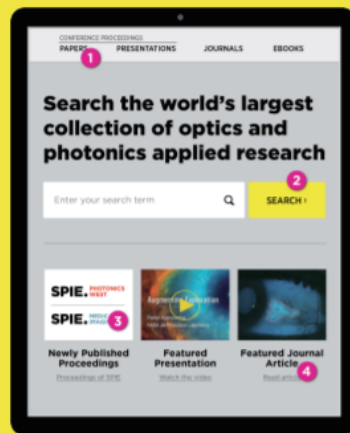
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