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# Fokus auf Vielfalt und Qualität

Wachsende Bedeutung der Berufsverbände und  
Fachgesellschaften im wissenschaftlichen Lebenszyklus

18.03.2019

GeSIG, Bibliothekskongress Leipzig

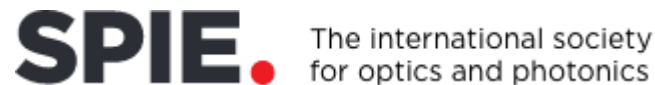
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# Produktportfolio



# Bibliodiversität - Biodiversität



oder



# Qualität



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Open Access  
Transformation



Von der *Serials Crisis*  
direkt in die  
*Transformationskrise*!!

Macht DEAL den Big Deal noch bigger?



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# Mehrwert – Fachgesellschaften/Berufsverbände

- Qualität
- Vielseitigkeit der Inhalte und Services
- Innovation verbunden mit Tradition
- Werte der Gemeinschaft
  - empowering students, impacting communities
- Mission, Ethik
- Mehrwert
- Reinvestments
  - communities, education, charity,

Wachsende Bedeutung!

# Qualitäts-Studie – Top 100 journals mit IFs

Impact Factors	Commercial	Not-for-Profit	Grand Total
Average 2017			
Chemistry	5,82	8,61	7,02
Economics	3,77	4,28	3,93
Engineering	<u>3,39</u>	3,38	3,38
Mathematics	1,97	2,31	2,08
Medicine	4,53	8,20	5,96
Physics	8,31	9,29	8,69
<b>Total Average of 2017</b>	<b>4,50</b>	<b>6,46</b>	<b>5,18</b>

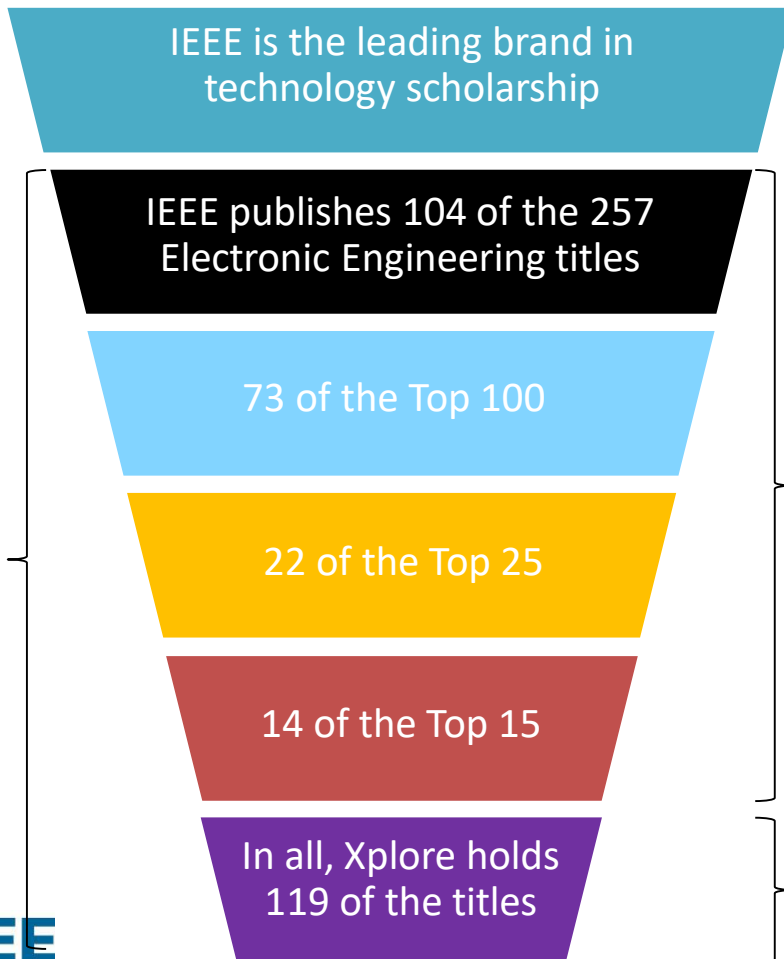
2017 – 6 Fachbereiche: Analyse der Top 100 Journals mit IFs



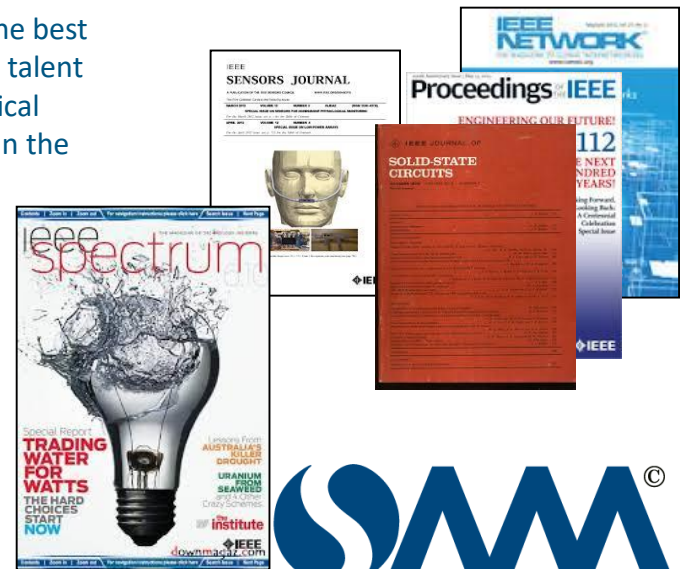
# Qualität!

IEEE produces high-quality, peer-reviewed content and will increasingly provide a single entry point to related content

Based on the JCR's current list of Impact Factor rated journals



IEEE has the best publishing talent and technical expertise in the industry



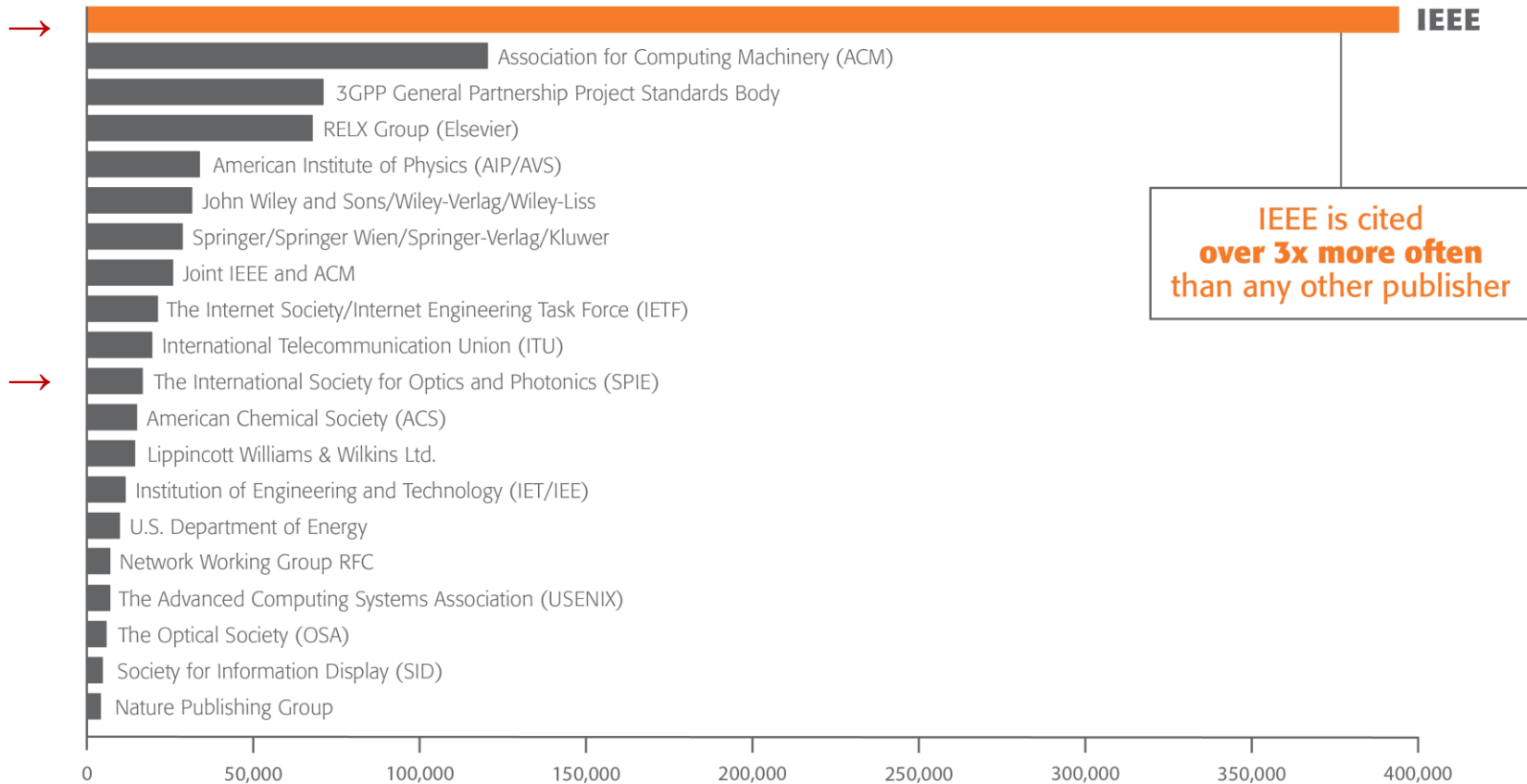
# Qualität!

IEEE produces high-quality, peer-reviewed content and will increasingly provide a single entry point to related content



# IEEE Leads US Patent Citations

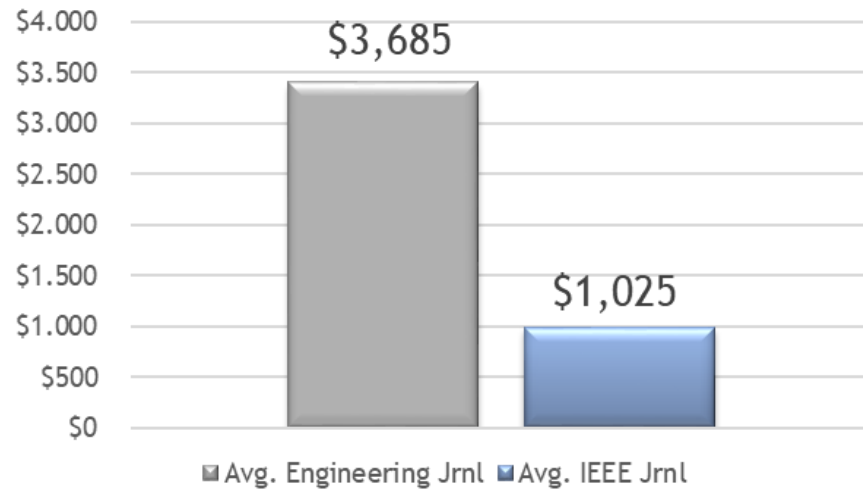
## Top 20 Publishers Referenced Most Frequently by Top 30 Patenting Organizations



Source: 1790 Analytics LLC 2018. Based on number of references to papers/standards/conferences from 1997-2017.

# IEEE – Durchschn. Kosten pro Artikel

Hohe Qualität, Fairer Preis



Der Durchschnittskosten pro Artikel eines Engineering Journals ist \$3,685, während die Durchschnittskosten eines IEEE journals sich auf lediglich \$1,025 belaufen.

**70% unter dem Markt-Durchschnitt!**

# IEEE Smart Village

## Reaching High with Nat Geo TV

The mission of IEEE Smart Village is to bring electricity to more than 50 million people who currently do not have power by 2025. In June 2017, *National Geographic's* critically acclaimed *Breakthrough* series devoted its season finale to an in-depth look at IEEE Smart Village, supported by the IEEE Foundation.

This episode of *Breakthrough* documented the arduous trek across the high Himalayas by a hardy team of engineers and volunteers from IEEE Smart Village and the Global Himalayan Expedition to install 14 DC microgrids in the remote monastery village. In addition to India, IEEE Smart Village has supported installations in Cameroon, Haiti, Kenya, Nigeria, Papua New Guinea, South Sudan and Zambia, all with an emphasis on sustainability.

Left: IEEE Smart Village volunteers teach young students models on LED light bulb assembly. Photo Credit: Paula Branstetter

Center: IEEE member Javid Khan volunteers to bring light to the Himalayan mountains. Photo Credit: Paula Branstetter

Right: With no road to most of the high mountain villages across the Himalayas, hardware is hand carried or delivered by pack animals. Photo Credit: Paula Branstetter



ADVANCING  
TECHNOLOGY  
FOR THE  
FUTURE

In 2017, IEEE drove the discussion  
of **tech ethics and emerging  
technologies** like augmented reality.

Left: Enlightened Monastery at 6,000' situated at 11,000' feet above sea level. The 900-year-old monastery village received a state-of-the-art microgrid installed by a team of IEEE volunteers. Photo credit: Paula Branstetter

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16 March 2017

## Large-field-of-view optical elastography using digital image correlation for biological soft tissue investigation

*Daniel Claus; Marjo Mikota; Jonathan Geibel; Thomas Reichenbach; Giancarlo Pedrini; Johannes Mischinger; Siegfried Schmauder; Wolfgang Osten;*

Author Affiliations +

J. of Medical Imaging, 4(1), 014505 (2017), doi:10.1117/J.MI.4.1.014505

**ARTICLE** SECTIONS - FIGURES & TABLES SUPPLEMENTAL CONTENT REFERENCES CITED BY

### Abstract

In minimally invasive surgery the haptic feedback, which represents an important tool for the localization of abnormalities, is no longer available. Elastography is an imaging technique that results in quantitative elastic parameters. It can hence be used to replace the lost sense of touch, as to enable tissue localization and

phic imaging technique. The implementation of a laser illumination source that enables imaging of mechanical loading and deformation of the investigation of large organs (size of kidney) is required. Furthermore, the rolling indentation method is used to increase the accuracy. The successful application of elastography is demonstrated on a kidney specimen. Elasticity maps are generated via solving the inverse problem (numerically and experimentally available) using a well-

It enables a quicker recovery for the patient and has aesthetic advantages in particular for minimally invasive surgery at the expense of longer

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### KEYWORDS

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Elastography

Silicon

3D modeling

Digital image correlation

Kidney

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- Translational Research in Biophotonics: Four National Cancer Institute Case Studies
- Handbook of Medical Imaging, Volume 1. Physics and Psychophysics
- Handbook of Medical Imaging, Volume 2. Medical Image Processing and Analysis
- An Engineering Introduction to Biotechnology
- Bioluminescence and Fluorescence for In Vivo Imaging
- Handbook of Optical Biomedical Diagnostics, Second Edition, Volume 1: Light-Tissue Interaction

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## Green Open Access

- All SPIE Proceedings and eight journals
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- Low-cost APCs – \$960 for articles/\$660 for letters

# Why societies/professional organisations?

## What Are The Risks to Success For Publishers in 2018?

Perceived business risks according to media publishers



\* will, process, skill

Q: What do you see as the single greatest risk to success in the year ahead?  
Survey of 184 senior media professional (editorial, commercial, or product)  
in traditional or digital-born publishing companies in December 2017

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@StatistaCharts

Source: RISJ

statista



# Biblio-, Biodiversität und Qualität - Ja!



# Forschungs-Verschnitt: **Nein!**



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# Kontakt

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