



## The 2<sup>nd</sup> International Forum on Surface and Microscopy ( IFSM ), 2017

<http://www.csoe.org.cn/IFSM2017/>

**Time:** August 7-9, 2017

**Location:** Harbin, China

The “**International Forum on Surface and Microscopy, 2017**” (IFSM 2017) symposium is the second special conference for optical microscopic imaging in China, bringing together professionals engaged in optical microscopy to make academic exchanges, and providing a platform for scientific researchers to present prospective viewpoint and probe into key technologies. The themes of the conference include not only the wide range of fields for optical microscopy research and applications, such as nanoscopy technology, hyperspectral imaging, nonlinear excitation microscopy imaging, fluorescence correlation spectroscopy, optical coherence tomography, confocal microscopy, white light interfering microscopy, dark field microscopy imaging, difference imaging, phase contrast microscopy, multi-photon microscopy, super-resolution imaging technology and etc., as well as include research and application progress of surface science and engineering that closely related to microscopic instruments, such as theoretical studies on the surface and interface of materials in the field of materials science and micromachining, research of failure mechanism on the surface and interface of materials, abrasion and corrosion behavior, analysis of failure mechanism on materials surface, geometric parameters measurement, application in life science research area, clinical diagnosis and etc.

### **Sponsors:**

National Natural Science Foundation of China (NSFC)

Chinese Society for Optical Engineering (CSOE)

China Instrument and Control Society (CIS)

Harbin Institute of Technology (HIT)

### **Technical-Sponsor:**

The International Society for Optics and Photonics (SPIE)

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Photoelectronic Technology Committee, Chinese Society of Astronautics

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**Scopes (Papers are solicited in, but not limited to the following areas):**

**Topics1** : Optical stereo imaging and applications

- ✧ Optical confocal microscopy
- ✧ White light scanning microscopy
- ✧ Interfering microscopy
- ✧ Structured illumination imaging
- ✧ Dark field optical microscopy
- ✧ Near field optical microscopy
- ✧ Spectroscopy
- ✧ X-ray tomography

**Topics2** : Metrology & standardization

- ✧ Surface, micro/ nano-metrology
- ✧ Micro/nano- measurement and instrumentation
- ✧ Calibration methods and artifacts
- ✧ AFM/SPM metrology
- ✧ Stylus instruments and metrology
- ✧ In-process/In-line measurement

**Topics3** : Super-resolution imaging and diffraction optics theory and application

- ✧ Optical pupil filtering and wavefront engineering
- ✧ Nanophotonics
- ✧ Nonlinear and ultrafast optics
- ✧ Holography
- ✧ Diffractive grating

**Topics4** : Biomedical optical imaging methods and applications

- ✧ Optical coherence tomography
- ✧ Raman Spectroscopy
- ✧ Optical projection tomography
- ✧ Bioluminescence imaging
- ✧ Fluorescence imaging
- ✧ Cerenkov luminescence imaging
- ✧ Photoacoustic tomography
- ✧ Diffuse optical imaging
- ✧ Multimodality imaging

**Topics5** : Nano/Biophotonics materials

- ✧ Reporters, dyes and molecular probes for biomedical applications
- ✧ Nanophotonics imaging for biomedical application
- ✧ Quantum dots for biomedical applications
- ✧ Up/down-conversion luminescence material for biomedical applications

**Topics6** : Biomedical optical microscopy systems and applications

- ✧ light-sheet microscopy, selective plane illumination microscope
- ✧ Imaging and analysis of biomolecules, cells, and tissues
- ✧ Two/multi-photon microscopy
- ✧ Three-dimensional and multidimensional microscopy
- ✧ Single molecule spectroscopy and superresolution imaging

**Supported Journals:**

*JOURNAL OF MICROSCOPY* (SCI)

*SURFACE TOPOGRAPHY: METROLOGY AND PROPERTIES* (SCI)

*INFRARED AND LASER ENGINEERING* (EI)

*PROCEEDINGS OF SPIE* (EI)

**Paper Submission** : [http://www.manuscript-cnoenet.com/index\\_en.htm](http://www.manuscript-cnoenet.com/index_en.htm)

**Organizing Committee:**

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The Organizing Committee of IFSM2017  
Chinese Society for Optical Engineering(CSOE)  
Dec-2016

