September 24-28, 2018 Dresden, Germany

SUBMISSIONS IN THE FOLLOWING AREAS ARE ENCOURAGED:

Printing for Graphics and New Functionalities

- Toner-based Processes
- Inkiet-based Processes
- Hybrid Technologies (Print and Laser)
- Aerosol-Jet Based Processes
- Thermal Printing
- RIP and Pre-press Solutions
- CAM for Digital Production
- Digital Finishing and Converting
- Security Printing
- Digitalization of Packaging for IOT
- Printing-based Large Area Electronics
- Layer Stacks Manufactured by Printing
- Printing in New Dimensions (2.5D 4D Printing)

Lab2Fab Challenges

- Design and Build of Digital Production Machines
- 3D Printers and Machinery
- Standardization of Materials and Processes
- Material-Machine Interactions and Processes

Recent Advances in Materials for Printing and Additive Manufacturing

- Toner Materials
- Colloids and Colloidal Suspensions (Particles, Ink Formulation, Functionality)
- Printable Conductors, Semiconductors, and Insulators
- Functionality Optimization through Post-Processing (Drying, Curing, Sintering)
- Functionality Formation in 3D Printing
- Substrates for Print Processes
- Ink-Substrate Interactions
- Environmental Sustainability
- Combinatorial Materials Science using Digital Printing Technologies

JIST-first Deadline: March 1, 2018
Paper Abstract Deadline: March 18, 2018
Accepted Papers Deadline: July 5, 2018

www.imaging.org/print4fab

Quality Control of Prints and Objects

- Metrology Tools for Digital Printing
- Printing Systems Optimization
- Performance of Print Products

Special Outreach Topics

Inkjet Printing for Textiles and Nonwovens

- Fabric Design Printing
- Technical Textile Processing by Printing
- Printed Functionalities Integration in Textiles
- Printed Smart Wearables
- Textile-related Ink Developments

Inkjet Printing of Decorative Surfaces

- Printed Functionalities Integration on Wallpapers, Décor Papers, and Laminates
- Advanced Digital Wallpaper Printing
- Laminate Décor Paper Printing
- Printing on (non-flat) Rigid Objects

Printing of Biological Materials and Pharmaceuticals

- Bio-Printing Techniques
- Hydrogels for Bio Applications
- Living Cell Ink Formulations
- Biomedical Engineering
- Tissue Modeling
- Biological Surface Modification
- Characterization of Bio-printed Objects
- 2D and 3D Pharmaceutical Printing

Opportunities for Introductions

Details on these special features of the conference will be released over the next few months

- What's New in the Printing Machinery Market?
- Research at the Edge!
- Late Breaking News Session
- Colleague Connection Events
- Keynote Talks
- Conference Exhibit and Demonstration Session

Keep up-to-date on the details of this and other meetings!

Join the Printing for Fabrication (Digital Printing / Digital

Fabrication / NIP) Group on LinkedIn!





How to Submit

Option 1: Journal of Imaging Science and Technology (JIST-first) Submission: submit via jist.msubmit.net

Submission Deadline: March 1, 2018

Submit a complete JIST manuscript of original work in the related science and/or technology to the web address above; under manuscript type, select: JIST-first–Printing for Fabrication 2018. Before submitting, please review the Author Guidelines at www.imaging.org/JIST. Authors will be notified by late April as to their status. Accepted papers will be included in the conference oral presentation program. Upon acceptance, at least one author must register for the conference at the full registration fee and pay JIST page charges reduced by 50%. Rejected papers are converted automatically to a Conference Paper submission and sent to the program committee for review.

Option 2: Conference Paper Submission: submit via www.imaging.org/print4fab Submission Deadline: March 18, 2018

Submit a technical paper representing original work in the science and/or technology related to digital printing and/or fabrication, to the web address noted above. Submissions should be based on the template provided and must include an extended abstract of approximately 500 words, clearly stating the technical content of the paper, the methods, and conclusions; if appropriate, emphasize what is new compared to previously presented/published results. You will be asked to indicate your preference for giving an oral or an interactive (poster) paper. Abstracts are peer-reviewed; authors will be notified in mid May as to their acceptance. Accepted papers are published in the conference proceedings. Final papers are due in electronic format by July 5, 2018. Direct submission inquiries to Christine Lenihan at 703/642-9090 or print4fab@imaging.org.

Short Courses and Workshops

The conference offers an extensive array of 2- to 4-hour Short Courses and workshops taught by world-renowned experts on a wide range of subjects related to digital printing and fabrication technologies.

Past classes have included: Industrial Inkjet: Applications, Challenges, and Considerations; 2D and 3D Printing Overview; Role of Inkjet in Commercial and Industrial Printing; Inkjet Pigment and Dispersion Technology; Stabilizing Pigments and Dyes; and Surface Ink Interactions and Characterization. In addition to course proposals, we are looking for instructors/experts to offer location-based and application/industry-focused classes or workshops. We are also open to classes with a hands-on, practical nature, and/or non-traditional format

Short Courses are published in the Preliminary Program. Those interested in offering a workshop or course should send a proposal to print4fab@imaging.org by March 1, 2018.

Exhibition 2018

State-of-the-art printing products, services, applications, materials, test equipment, and more make up this annual event. Held September 26-27. Early exhibitor deadline: June 1, 2018. Contact Donna Smith (dsmith@imaging.org).

Late Breaking News

A favorite of attendees, this session held at the end of the week, compiles recent success stories on the implementation of digital printing applications into manufacturing lines. Every new successful implementation strengthens the standing of our community and the general perception of digital fabrication. We encourage you to present your success story by contacting print4fab@imaging.org.

The Venue: Dresden, Germany

The 34th in IS&T's digital printing (NIP) conference takes place in Dresden, the capital of the Free State of Saxony in eastern Germany. Dresden lies on the banks of the Elbe River, close to Berlin and the Czech Republic.

Saxony is home to numerous printing technology-related companies and many fine institutions of higher learning including 17 Fraunhofer, 8 Leibnitz, 6 Max Planck, and 3 Helmholtz research institutes, the Technical Universities of Chemnitz, Dresden, and Freiberg, and print/media-related programs at the universities of applied sciences in Mittweida and Leipzig.

Known as the Jewel Box, because of its gorgeous baroque and rococo city center, Dresden was virtually destroyed by controversial Allied bombings at the end of WWII. The city has been painstakingly restored to its former glory and delights with its ornate architecture, monumental museums, and riverside charm.

In the heart of the old city, just steps from the iconic Frauenkirche Dresden and the Dresden Castle, the Hilton Dresden hosts the 2018 conference. Don't miss the chance to convene with colleagues, learn more about printing for fabrication, and explore this stunning city.

Getting there

Dresden International Airport is 10 km from the Hilton. There are direct flights from major German cities, as well as other European cities such as Amsterdam, Moscow, and Zurich. Travelers may want to transit through Frankfurt or to book flights to Berlin or Prague. There are 22 trains/day between Berlin and Dresden, ranging from 1.75 to 2.5 hours. Between Prague and Dresden, there are ~17 trains ranging from 2.5 to 3 hours. There are also buses between the cities.

Hotel Reservation

Hotel rate and reservation information will be posted on the conference webpage closer to the event.