

Call For Papers

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Microtechnologies for the New Millennium 2007

2–4 May 2007 *Gran Hotel Costa Meloneras*
Maspalomas, Gran Canaria, Spain

Building a Better Future with Light

Smart Sensors, Actuators,
and MEMS

VLSI Circuits and Systems

Nanotechnology

Bioengineered and Bioinspired
Systems

Photonic Materials, Devices,
and Applications

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Your input is crucial!

Take this opportunity to submit your research to the 3rd SPIE Europe International Symposium on Microtechnologies for the New Millennium.

Enjoy the picturesque, warm and friendly Canary Islands, the ideal place to meet with your colleagues to discuss the latest advances on a variety of technologies, which are already shaping this millennium. Five exciting conferences on VLSI Circuits and Systems; Smart Sensors, Actuators and MEMS; Nanotechnology; Bioengineered and Bioinspired Systems; and Photonic Materials, Devices and Applications have been planned for this event. You will have a unique opportunity to hear about the latest advances on biosensors, sensory-information processing, GHz data communications, molecular electronics, or the combination between living tissue and microelectronics, among many other cutting-edge topics.

Exchange new ideas, address your shared concerns, and get access to information not yet published in these topical areas. Submit your abstract by 16 October 2006 and share your research with other engineers, scientists, researchers, and managers. If accepted, your paper will be permanently archived in the SPIE Digital Library, where it will be made available to others in the international scientific community who seek to learn, make discoveries, and innovate.

We welcome you to enjoy the best of Spanish hospitality as well as participating in a most stimulating scientific symposium.

Symposium Chairs:



Roberto Sarmiento,
Univ. Las Palmas de
Gran Canaria (Spain)



Steve Kang,
Univ. California/Santa
Cruz (USA)



José Fco. López,
Univ. de Las Palmas de
Gran Canaria (Spain)

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Smart Sensors, Actuators and MEMS (EMT101)

Conference Chair: **Thomas Becker**, EADS Deutschland GmbH (Germany)

Cochairs: **Carles Cané**, CNM-CSIC (Spain); **N. Scott Barker**, Univ. of Virginia

Program Committee: **Kris Baert**, IMEC (Belgium); **Joan Bausells**, Ctr. Nacional de Microelectrónica (Spain); **James Becker**, Montana State Univ.; **Thomas Bischoff**, Infineon Technologies AG (Germany); **Nicolaas F. de Rooij**, Univ. de Neuchâtel (Switzerland); **Rhonda Drayton**, Univ. of Minnesota; **Martin Eickhoff**, Technische Univ. München/Walter Schottky Institute (Germany); **Guido Faglia**, Univ. degli Studi di Brescia (Italy); **Carles Ferrer**, Univ. Autònoma de Barcelona (Spain); **F. Javier Gracia**, Ctr. de Estudios e Investigaciones Técnicas de Gipuzkoa (Spain); **Katia M. Grenier**, LAAS-CNRS (France); **Klas Hjort**, Uppsala Univ. (Sweden); **Gianfranco Innocenti**, Centro Ricerche Fiat (Italy); **Jeong-Bong Lee**, The Univ. of Texas at Dallas; **Santiago Marco Colás**, Univ. de Barcelona (Spain); **Dean P. Neikirk**, The Univ. of Texas/Austin; **Sergio Pacheco**, Freescale Semiconductor, Inc.; **John Papapolymerou**, Georgia Institute of Technology; **Steven J. Setford**, Cranfield Univ. (United Kingdom); **Pietro Siciliano**, Consiglio Nazionale delle Ricerche (Italy); **Christos Tsamis**, National Ctr. of Scientific Research (Greece); **Wouter van der Wijngaert**, Kungliga Tekniska Högskolan (Sweden); **Jürgen Wöllenstein**, Fraunhofer-Institut für Physikalische Messtechnik (Germany)

This conference is third in series following its successful launch in 2003 and 2005. It covers a wide range of mechanical, chemical and biological devices and technologies for Sensors, Actuators, MEMS and NEMS with special focus on smart approaches and applications.

Topics include, but are not limited to:

- materials research: e.g. polymers, piezoelectric materials, nitrides, other functional thin film materials, optical thin films
- processes and fabrication techniques for MEMS: deposition techniques, lithography, self alignment and masking techniques, etching and ablation techniques
- modelling and simulation of microsystems from component to device level, CAD tools
- physical sensors, mechanical sensor, gyroscopes
- optical MEMS (MOEMS), RF MEMS, millimeter/submillimeter-wave and infrared devices
- chemical and biosensors, microfluidic devices, lab-on-chip
- actuators, aeroMEMS, artificial muscles
- calibration, characterisation and testing techniques, reliability
- system integration, packaging and assembly, electronic integration, 2D integration techniques, RFID, motes
- applications and markets.

VLSI Circuits and Systems

(EMT102)

Conference Chair: **Valentin de Armas**, Univ. de Las Palmas de Gran Canaria (Spain)

Cochairs: **Kamran Eshraghian**, Eshraghian Labs. Pty Ltd. (Australia); **Félix B. Tobajas**, Univ. de Las Palmas de Gran Canaria (Spain)

Program Committee: **Said F. Al-Sarawi**, The Univ. of Adelaide (Australia); **Sebastián A. Bota**, Univ. de les Illes Balears (Spain); **Massimo Conti**, Univ. Politecnica delle Marche (Italy); **Francisco V. Fernández**, IMSE-CNMI-CSIC and Univ. de Sevilla (Spain); **Paul D. Franzon**, North Carolina State Univ.; **Eby G. Friedman**, Univ. of Rochester; **Helmut Graeb**, Technische Univ. München (Germany); **Dake Liu**, Linköping Univ. (Sweden); **Sebastián López Suárez**, Univ. de Las Palmas de Gran Canaria (Spain); **Antonio López-Martín**, Univ. Publica de Navarra (Spain); **Marie-Minerve Louerat**, Univ. Paris VI (France); **Gustavo Marrero Callico**, Univ. de Las Palmas de Gran Canaria (Spain); **Salvador Mir**, TIMA Lab. (France); **Antonio Núñez Ordóñez**, Univ. de Las Palmas de Gran Canaria (Spain); **Massoud Pedram**, Univ. of Southern California; **Belén Pérez-Verdú**, IMSE-CNMI-CSIC (Spain); **Hans-Jörg Pfeleiderer**, Univ. Ulm (Germany); **Teresa Riesgo-Alcaide**, Univ. Politécnica de Madrid (Spain); **Josep Samitier-Martí**, Univ. de Barcelona (Spain); **César Sanz**, Univ. Politécnica de Madrid (Spain); **Sachin Sapatnekar**, Univ. of Minnesota; **Javier Jose Sieiro**, Univ. de Barcelona (Spain); **Walter Stechele**, Technische Univ. München (Germany)

The electronics industry has experienced a phenomenal growth mainly due to the fast advances in integration technologies. This technological evolution has enabled the integration of more and more functionalities into a smaller number of chips, with the consequent reduction in size, cost and power consumption; therefore, fueling, for instance, the information technology revolution. Nowadays, it is not uncommon to integrate complex digital subsystems like microprocessors, memories, etc., with analog, mixed-signal and RF circuits, and even sensors, onto the same substrate. This conference will foster cross-fertilization by bringing together researchers from every aspect of the VLSI area, from devices to systems, including design, modeling, test, design methods, etc.

Topics include, but are not limited to:

- VLSI systems and applications: transistor circuits techniques; digital and analog signal processors and cores; digital arithmetic; digital filters; memories; reconfigurable devices; low power VLSI; DSPs.
- Multimedia systems and applications: image and video processing; image and video compression and transmission; real-time architectures and processors; multimedia-specific embedded systems; multimedia applications; emerging trends.

- Circuits and systems for data communications: transceiver architectures; switching; backplane design; circuit design for wireless (GSM, CDMA, UMTS, Bluetooth, WLAN, UWB, multiband, TV, radio, satellite); circuits and systems for wired communications (LAN, WAN, Ethernet, xDSL, powerline, cable modem); RF design: antennas, power amplifiers, digital radio techniques, etc.
- Analog circuit design: amplifiers; continuous-time and discrete-time filters; Nyquist-rate and over-sampled data converters; nonlinear circuits; references; low-power and low-voltage circuit techniques.
- Technology directions: deep submicron; compound semiconductor technologies and systems; emerging technologies; process integration; chip packaging; mixed systems; sensors and sensor interfaces.
- Modeling and simulation: circuit, timing, logic, functional and system simulation; signal integrity; analog and RF modeling and simulation; mixed-signal and multilevel simulation; device and block modeling; parasitic extraction and analysis; substrate modeling and analysis; interconnect; packaging.
- CAD tools and design methodologies: architectural and logic synthesis; platform-based design and IP reuse; IP generation and verification; analog, RF- and mixed-signal design; physical design; verification; hardware design languages; design for manufacturability.
- Test: test generation; testing of cores, SoCs, MCMs, SiPS, boards, heterogeneous systems; analog and mixed-signal test, RF testing; fault modeling and defect analysis; yield analysis; test metrics; on-line testing; design-for-testability; BIST; diagnosis and repair; industrial test case-studies.

Critical Dates

Abstract Due Date:

16 October 2006

Manuscript Due Date:

2 April 2007

Please Note: Submissions imply the intent of at least one author to register, attend the symposium, present the paper as designated (either orally or in poster format), and submit a full-length manuscript for publication in the conference Proceedings.

Submit your abstract today!

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Nanotechnology (EMT103)

Conference Chair: **Fernando Briones**, IMM-CSIC (Spain)

Cochairs: **Carl V. Thompson**, Massachusetts Institute of Technology; **Suzi Jarvis**, CRANN, National Univ. of Ireland/Dublin (Ireland)

Program Committee: **Núria Barniol**, Univ. Autònoma de Barcelona (Spain); **Martin L. Bennink**, Univ. Twente (Netherlands); **Flemming Besenbacher**, Univ. of Aarhus (Denmark); **J% Colchero**, Univ. de Murcia (Spain); **Eugenio Coronado**, Univ. de València (Spain); **G. Faini**, L2M-CNRS (France); **Dino Fiorani**, Consiglio Nazionale delle Ricerche (Italy); **Asher A. Friesem**, Weizmann Institute of Science (Israel); **L. Gonzalez**, IMM-CSIC (Spain); **Costas P. Grigoropoulos**, Univ. of California/Berkeley; **Heinrich Hofmann**, École Polytechnique Fédérale de Lausanne (Switzerland); **M. Luna**, IMM-CSIC (Spain); **Lars Montelius**, Lunds Univ. (Sweden); **Pablo Ordejon**, Consejo Superior de Investigaciones Científicas (Spain); **Fernando Palacio**, Consejo Superior de Investigaciones Científicas (Spain); **S. Penades**, IIQ-CSIC (Spain); **Jose Rivas**, Univ. de Santiago de Compostela (Spain); **Hartmut Rohrmann**, Unaxis Balzers AG (Liechtenstein); **Antonio Rubio**, Univ. Politècnica de Catalunya (Spain); **Juan J. Saenz**, Univ. Autónoma de Madrid (Spain); **Miguel Salmeron**, Lawrence Berkeley National Lab.; **Richard W. Siegel**, Rensselaer Polytechnic Institute; **Farhad Tavassoli**, Commissariat à l'Énergie Atomique (France); **E% Tronc**, Ctr. National de la Recherche Scientifique (France)

The conference provides an interdisciplinary forum for the discussion of various issues of nanotechnology, including nanofabrication and nanoprobe techniques, modelling and simulation approaches, design and realization of circuits and systems based on nanodevices, nanoscale materials and structures.

Topics include, but are not limited to:

- nanoprobes
- nanofabrication
- nanochemistry
- nanoscale electronics
- nano-bio-sciences
- nanophotonics
- vnanoscale magnetism.

Bioengineered and Bioinspired Systems (EMT104)

Conference Chair: **Paolo Arena**, Univ. di Catania (Italy)

Cochairs: **Gustavo Liñán-Cembrano**, Ctr. Nacional de Microelectrónica (Spain); **Ángel Rodríguez-Vázquez**, AnaFocus (Spain)

Program Committee: **Andreas G. Andreou**, Johns Hopkins Univ.; **Gert Cauwenberghs**, Johns Hopkins Univ.; **Ralph E. Cummings**, Univ. of Maryland/College Park; **Radu Dogaru**, Univ. Politehnica Bucuresti (Romania); **Antoine Dupret**, Univ. Paris-Sud XI (France); **Luigi Fortuna**, Univ. degli Studi di Catania (Italy); **Giacomo Indiveri**, ETH Zürich (Switzerland); **Pedro Julian**, Univ. Nacional del Sur (Argentina); **Laura M. Lechuga**, Ctr. Nacional de Microelectrónica (Spain); **Robert W. Newcomb**, Univ. of Maryland/College Park; **Maciej J. Ogorzalek**, Univ. of Mining and Metallurgy (Poland); **Csaba Rekeczky**, Computer and Automation Research Institute (Hungary); **Ramón Ruiz-Merino**, Univ. Politècnica de Cartagena (Spain); **Josep Samitier-Marti**, Univ. de Barcelona (Spain); **Luis Serrano**, Univ. Publica de Navarra (Spain); **Bertram Shi**, The Hong Kong Univ. of Science and Technology (Hong Kong China); **Tadashi Shibata**, The Univ. of Tokyo (Japan); **Tor Sverre Lande**, Univ. of Oslo (Norway); **Ronald Tetzlaff**, Johann Wolfgang Goethe- Univ. (Germany); **Maurizio Valle**, Univ. degli Studi di Genova (Italy); **Fernando Vidal**, Univ. de Málaga (Spain); **Mona E. Zaghloul**, The George Washington Univ.

The development of a human-oriented intelligent environment relies upon the evolution of micro- and nano-sensors and actuators. A synergetic approach covering applied physics, electronics, biochemistry, medicine and neuroscience, is rendering the most promising results in areas such as bioinspired sensory processing, sensor array systems, neural and cognition systems implementation, biomimetics, microfluidics, biosensors, chips for genomics and proteomics and smart materials for medical applications. This conference is intended to bring together experts in different disciplines, linked by the strong motivation of contributing to this multidisciplinary scenario.

Topics include, but are not limited to:

- biochemical sensors
- bioMEMS
- interface circuits for biosensors
- bioinspired VLSI processing architectures
- bioinspired sensory-processing-actuating circuits
- bioinspired circuits
- circuits for medical applications
- implantable electronics
- biomedical instrumentation
- biosignal processing
- bioinspired signal processing

- microfluidics
- lab-on-chip
- wireless technology for medical applications
- telemedicine systems
- electronic and electromechanical prosthesis
- neuromorphic engineering
- ion channel devices
- VLSI implementations of neural systems
- smart materials for biomedicine.

Photonic Materials, Devices, and Applications (EMT105)

Conference Chair: **Ali Serpengüzel**, Koç Univ. (Turkey)

Cochairs: **Gonçal Badenes**, Institut de Ciències Fotòniques (Spain); **Giancarlo C. Righini**, Istituto di Fisica Applicata Nello Carrara (Italy)

Program Committee: **Michael J. Adams**, Univ. of Essex (United Kingdom); **Roel G. Baets**, Univ. Gent (Belgium); **Pascal A. Baldi**, Univ. de Nice Sophia Antipolis (France); **Richard K. Chang**, Yale Univ.; **Brian Culshaw**, Univ. of Strathclyde (United Kingdom); **Nadir Dagli**, Univ. of California/Santa Barbara; **Richard M. De La Rue**, Univ. of Glasgow (United Kingdom); **G. di Bartolo**, LNS (Italy); **Robert E. Fischer**, OPTICS 1, Inc.; **F. Javier Garcia de Abajo**, Consejo Superior de Investigaciones Científicas (Spain); **Fenna D. Hanes**, New England Board of Higher Education; **M. Saif Islam**, Univ. of California/Davis; **Gershon Kurizki**, Weizmann Institute of Science (Israel); **El-Hang Lee**, Inha Univ. (South Korea); **Eric Mazur**, Harvard Univ.; **Anna G. Mignani**, Istituto di Fisica Applicata Nello Carrara (Italy); **Manuel Nieto-Vesperinas**, Consejo Superior de Investigaciones Científicas (Spain); **Ekmel Özbay**, Bilkent Univ. (Turkey); **Roberto R. Panepucci**, Florida International Univ.; **Lorenzo Pavesi**, Univ. degli Studi di Trento (Italy); **Valerio Pruneri**, Avanex, Inc. (Italy); **Henri J. Rajbenbach**, European Commission (Belgium); **Manijeh Razeghi**, Northwestern Univ.; **Ivo Rendina**, Istituto per la Microelettronica e Microsistemi (Italy); **PierMario Repetto**, Ctr. Ricerche Fiat (Italy); **Vahid Sandoghdar**, ETH Zürich (Switzerland); **Costas M. Soukoulis**, Iowa State Univ.; **Hugo Thienpont**, Vrije Univ. Brussel (Belgium); **M. S. Unlu**, Boston Univ.; **Niek F. van Hulst**, Univ. Twente (Netherlands); **Claude Weisbuch**, Ecole Polytechnique (France)

Photonics is having a tremendous impact on society, not only in the telecommunications but also spanning a wide range of additional applications such as diagnostics, sensing, storage, and displays. Recent advances in the development of new photonic materials, devices, systems, and techniques, especially those related to micro- and nanotechnologies suggest that these areas will play an increasingly important role in the future. The scope of this conference is to bring together research scientists and engineers who work on the different aspects of this fascinating field, and thus to provide an interdisciplinary update and review of innovations in photonic materials, devices and systems, micro- and nanotechnological manufacturing advances, as well as theoretical and experimental tools that support and enable these innovations. The conference includes, but is not limited to, the following topics:

- all optical signal processing
- advanced optical fibers, fiber devices, systems, sensors
- laser material synthesis and processing
- laser-induced fabrication of photonic materials
- microcavities, microresonators, photonic atoms, and photonic wires
- nanophotonics, nanostructured materials and devices, plasmonics, biophotonics
- organic, semiconductor, and hybrid photonic materials and devices, lasers and LEDs
- photonic bandgap materials, complex materials, left-handed materials, metamaterials
- photonic devices and systems for telecommunications, sensing, biomedical and environmental applications
- quantum photonic devices, quantum information and computing
- silicon photonics
- THz Photonics.

Critical Dates

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16 October 2006

Manuscript Due Date:
2 April 2007

Please Note: Submissions imply the intent of at least one author to register, attend the symposium, present the paper as designated (either orally or in poster format), and submit a full-length manuscript for publication in the conference Proceedings.

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General Information



Maspalomas, Gran Canaria, Spain

The symposium will take place in Maspalomas, famous worldwide probably not for its NASA and ESA Space Stations, but for its beaches and range of leisure activities. The island's charms reside in its constant contrasts, apparent even in the modern and cosmopolitan capital city of Las Palmas de Gran Canaria with its busy harbour—an open window into the world. The population of the island (1.8 million) enjoy the most advanced services in consumer foods, health, leisure, and culture. The region has residential and business areas appropriate for executives, along with modern highway and communication infrastructures. All these facilities allow the island to enjoy the quality of life that characterize modern societies, and to share this lifestyle with over 9 million visitors every year. From the observatories of the Astrophysics Institute, the Universe is within reach of visitors and residents. Amazing images received from Earth Observation Satellites can also be admired at Maspalomas Space Station. The famous Botany Garden at Tafira, the Bandama volcano crater, or Roque Nublo, one of the highest peaks, are worth a visit. The diverse research institutes on the island are proud to receive scientists from all over the world to exchange knowledge and contribute to the advancement of science and technology.



Conference Hotel

Gran Hotel Costa Meloneras
www.lopesanhr.com

A hotel reservation form with special rates will be available in the advance technical program and on SPIE's website at www.spie.org/info/emt

SPIE Europe

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SPIE in Europe

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Technical Programme

Available February 2007

The comprehensive Advance Technical Programme for this symposium will list conferences, paper titles, and authors in order of presentation; an outline of all planned special events; and hotel and registration information. All those who submit an abstract will receive a copy.

Registration Fee

All participants, including invited speakers, contributed speakers, session chairs, and committee members must pay a registration fee. Fee information will be available in the Technical Programme distributed in February.

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IMPORTANT!

Submissions imply the intent of at least one author to register, attend the symposium, present the paper (either orally or in poster format), and submit a full-length manuscript for publication in the conference Proceedings.

By submitting your abstract you warrant that all clearances and permissions have been obtained, and authorize SPIE to circulate your abstract to conference committee members for review and selection purposes and if it is accepted, to publish your abstract in conference announcements and publicity

All authors (including invited or solicited speakers), programme committee members, and session chairs are responsible for registering and paying the reduced author, session chair, program committee registration fee. (Current SPIE Members receive a discount on the registration fee.)

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You are **STRONGLY ENCOURAGED** to submit abstracts using the “submit an abstract” link at:

<http://spie.org/events/emtcall>

Submitting directly on the Web ensures that your abstract will be immediately accessible by the conference chair for review through MySPIE, SPIE's author/chair web site.

Please note! When submitting your abstract you must provide contact information for all authors, summarize your paper, and identify the **contact author** who will receive correspondence about the submission and who must submit the manuscript and all revisions. Please have this information available before you begin the submission process.

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IMPORTANT! To ensure proper processing of your abstract, the SUBJECT line must include only:

SUBJECT: Conference Code (example: EMT101)

Your abstract submission must include all of the following:

- 1. PAPER TITLE**
- 2. AUTHORS** (principal author first) For each author: First (given) name (initials not acceptable), Last (family) name, Affiliation, Mailing address, Telephone, Fax, and Email address.
- 3. PRESENTATION PREFERENCE** “Oral Presentation” or “Poster Presentation.”
- 4. PRINCIPAL AUTHOR'S BIOGRAPHY** Approximately 50 words.
- 5. ABSTRACT TEXT** Approximately 250 words.

Accepted abstracts for this conference will be included in the abstract digest which will be available at the meeting. Please submit only 250-word abstracts that are suitable for publication.

- 6. KEYWORDS** Maximum of five keywords.
- 7. SUPPLEMENTAL FILE** In addition to the 250 word abstract text, authors are requested to submit a two-page summary including text and supporting data (graphs, diagrams, drawings, photos) of the presented research.

Abstract Due Date: 16 October 2006

Manuscripts Due Date: 2 April 2007

Conditions of Acceptance

- Authors are expected to secure funding for registration fees, travel, and accommodations, independent of SPIE, through their sponsoring organizations before submitting abstracts.
- Only original material should be submitted.
- Commercial papers, papers with no new research/development content, and papers where supporting data or a technical description cannot be given for proprietary reasons will not be accepted for presentation in this symposium.
- Abstracts should contain enough detail to clearly convey the approach and the results of the research.
- Government and company clearance to present and publish should be final at the time of submittal. If you are a DoD contractor, allow at least 60 days for clearance. Authors are required to warrant to SPIE in advance of publication of the Proceedings that all necessary permissions and clearances have been obtained, and that submitting authors are authorized to transfer copyright of the paper to SPIE.

Review, Notification, Programme Placement

- To ensure a high-quality conference, all abstracts and Proceedings manuscripts will be reviewed by the Conference Chair/Editor for technical merit and suitability of content. Conference Chair/Editors may require manuscript revision before approving publication, and reserve the right to reject for presentation or publication any paper that does not meet content or presentation expectations. SPIE's decision on whether to accept a presentation or publish a manuscript is final.
- Applicants will be notified of abstract acceptance and sent manuscript instructions by e-mail no later than 26 December 2006. Notification of acceptance will be placed on SPIE Web the week of 2 January 2007 at <http://spie.org/events/emtcall>
- Final placement in an oral or poster session is subject to the Chairs' discretion. Instructions for oral and poster presentations will be sent to you by e-mail. All oral and poster presentations require presentation at the meeting and submission of a manuscript to be included in the *Proceedings of SPIE*.

Proceedings of SPIE and SPIE Digital Library

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- **Papers not presented at the meeting will not be published in the conference Proceedings**, except in the case of exceptional circumstances at the discretion of SPIE and the Conference Chairs/Editors.

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