February 16, 2017

Defense Technical Information Center
8725 John J Kingman Road Ste 0944
Fort Belvoir, VA 22060-6218

Re: OSA Imaging and Applied Optics Congress Support (Award No. N00014-16-1-2757)

Please find enclosed proceedings with form SF298 for the 2016 OSA Imaging and Applied Optics Congress Support grant, award No. N00014-16-1-2757.

If you have any questions regarding the submission of this report, please contact our Grants Manager, Ewelina Osinska, at (202) 416-1934 or eosinska@osa.org.

Sincerely,

Marcia Lesky
Deputy Senior Director
Phone: 1-202-416-1977
Email: mlesky@osa.org
The 2016 OSA Imaging and Applied Optics Congress was a four-day meeting that encompassed the latest advances in computational imaging research, emphasizing integration of opto-electric measurement and computational processing as well as imaging system design and components, imaging modalities and systems, and applications of military, industrial, medical and consumer imaging. The Congress featured eight (8) meetings including Imaging Systems and Applications (IS) and Computational Optical Sensing and Imaging (COSI). The meetings exposed attendees to in-depth learning of optical sensing and imaging and their applications from internationally recognized academic and industry leaders in the field.

**Subject Terms**
- Imaging, imaging systems, computational sensing, compressive sensing, tomographic imaging, light-field sensing, digital holography, SAR, phase retrieval, computational spectroscopy, blind deconvolution and phase diversity, point spread function engineering, digital/optical super resolution, light gathering optics, image sensor architectures and technology.
CONFERENCE PROCEEDINGS

2016 OSA Imaging and Applied Optics Congress Support

Report Submitted to:

Dr. Ravindra Athale
Office of Naval Research
875 N. Randolph Street, Suite 1425
Arlington, Virginia 22203-1995

Submitting Institute:

Optical Society of America
2010 Massachusetts Ave NW
Washington, D.C. 20036-1023
IRS NO. 53-0259696

Grant Information:

<table>
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<tr>
<th>Project Title:</th>
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<tr>
<td>Award Number:</td>
<td>N00014-16-1-2757</td>
</tr>
<tr>
<td>Performance Period:</td>
<td>06/15/2016 - 12/31/2016</td>
</tr>
<tr>
<td>Award Budget:</td>
<td>$10,000</td>
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<tr>
<td>Project Investigator:</td>
<td>Dr. Thomas Giallorenzi, <a href="mailto:grants@osa.org">grants@osa.org</a>, 202-416-1925</td>
</tr>
<tr>
<td>Report Type:</td>
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</tbody>
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FOREWORD

The Optical Society of America (OSA) greatly appreciates the grant in the amount of $10,000 from the Office of Naval Research (ONR) for the support of Imaging Systems and Applications (IS) and Computational Optical Sensing and Imaging (COSI) topical meetings within the OSA Imaging and Applied Optics Congress, which was held in Heidelberg, Germany on 25-28 July 2016.
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Appendix A. Schedule at a Glance
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ABSTRACT

The 2016 OSA Imaging and Applied Optics Congress was a four-day meeting that encompassed the latest advances in computational imaging research, emphasizing integration of opto-electric measurement and computational processing as well as imaging system design and components, imaging modalities and systems, and applications of military, industrial, medical and consumer imaging. The Congress featured eight (8) Topical meetings including Imaging Systems and Applications (IS) and Computational Optical Sensing and Imaging (COSI) that were supported by this grant. The meetings exposed attendees to in-depth learning of optical sensing and imaging and their applications from internationally recognized academic and industry leaders in the field.

The goal of this Congress was to present topics that range from theoretical to experimental demonstration and verification of the latest advances in imaging systems and their applications. COSI covered subject matter in fundamental physics, numerical methods and physical hardware that has led to significant improvements in the fields of imaging and sensing for medical, defense, homeland security, inspection and testing applications, and IS highlighted the leading-edge use of imaging systems in microscopy, invasive and non-invasive surgery, remote sensing, astronomical observations and imaging from nearby planets to outer space, digital cinematography capture and projection, computational photography and consumer imaging.

The COSI and IS meetings convened 155 attendees, hosted 39 invited speakers and featured 73 contributed oral presentations, and 37 poster presentations.

GOALS

1. Showcase the latest advances and identify future trends in the field of imaging systems and applications. To enable this, conference chairs and committee members in consultation with industry leaders create a program that attracts distinguished experts and fosters in-depth exploration of topics, enables open dialog, and facilitates one-on-one interaction.

2. Gain recognition and share discoveries with colleagues, luminaries and industry leaders. Peer-reviewed presentations ensure high-quality presentations on important, timely and emerging topics. Accepted papers are published in OSA Publishing’s Digital Library and indexed in Ei Compendex and Scopus.

3. Connect with others, meet with colleagues and thought leaders while making new contacts and forging new collaborative partnerships. The meeting is structured to maximize networking opportunities across related disciplines.

4. Engage with the industry and offer opportunities to meet with exhibitors. Participants can hear about the latest products and services, but more importantly, learn about entrepreneurial opportunities and how scientific innovations translate to the market.
ACCOMPLISHMENTS

The Imaging Congress was a four-day meeting that exposed attendees to in-depth learning of optical sensing and imaging and their applications from internationally recognized academic and industry leaders in the field. The scope included all aspects of the field. Computational sensing and imaging applications span from fundamental science to medical, security, and defense industry applications. COSI encompasses the latest advances in computational imaging research, emphasizing integration of opto-electric measurement and computational processing.

Representative topics include compressive sensing, tomographic imaging, light-field sensing, digital holography, SAR, phase retrieval, computational spectroscopy, blind deconvolution and phase diversity, point spread function engineering, and digital/optical super resolution. IS brought together experts from many different scientific and engineering disciplines who contribute to the design and integration of optics, sensors, digital processing and displays in imaging systems. IS captured the state-of-the-art in unique light gathering optics, image sensor architectures and technology, on and off chip digital image processing, and methods for compression and transmission. The meeting highlighted the leading-edge use of imaging systems in microscopy, invasive and non-invasive surgery, remote sensing, astronomical observations and imaging from nearby planets to outer space, digital cinematography capture and projection, computational photography and consumer imaging.

The Computational Optical Sensing and Imaging (COSI) meeting consisted of topics that ranged from theoretical to experimental demonstration and verification of the latest advances in computational imaging research. This meeting covered subject matter in fundamental physics, numerical methods and physical hardware that has led to significant improvements in the fields of imaging and sensing for medical, defense, homeland security, inspection and testing applications. In 2016, the program committee prepared a program of 20 invited speakers and 43 contributed oral presentations, as well as 27 poster presentations. Also, OSA piloted a new program for COSI poster presenters. This program brought a multimedia presence to enhance the poster session by allowing presenters to submit 3 minute videos of their research. These videos can be found on the COSI website, osa.org/cosi, and also select submissions were shown at the end of related oral presentations sessions.

Imaging Systems and Applications (IS) was an “all-encompassing” topical meeting specializing in imaging system design and components, imaging modalities and systems, and applications of military, industrial, medical and consumer imaging. Its aim was to highlight how different materials, components, and processing combine to create imaging systems and determine their performance. Invited speakers from the military, academic, and commercial imaging sectors addressed the current status and future of imaging technologies and capabilities in their organizations. The conference included keynote speaker Josef Bille, University of Heidelberg, Germany, 19 invited speakers, 30 contributed oral presentations, and 10 poster presentations.

The program consisted of plenary and technical sessions, networking events, professional development programs, poster presentations and research sharing. The curriculum structure allowed for student education, networking, and opportunities for students to interact with lecturers to enhance professional development.
Please see Appendix A. for the detailed schedule.

**Significant Results**

1. 664 individuals attended the Congress. COSI and IS attracted 155 participants.
2. 56 students attended COSI and IS.
3. COSI and IS hosted 39 invited speakers who presented a variety of topics over the course of four days.
4. COSI and IS featured 73 contributed presentations, and 37 poster presentations.
5. There were 13 participating companies in the Congress.
6. COSI and IS attendees represented 26 countries.
7. COSI and IS provided diversity in student enrollment, including 20 female students.
8. OSA provided the staffing and support for the planning and execution of the program throughout the whole performance period.
9. The ONR grant funds were used to cover travel and registration costs for 20 participants. A portion of the funds was also used for grant management and processing.

**Grant Funds Allocation**

<table>
<thead>
<tr>
<th>1. Participants Support</th>
<th>$7,486</th>
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<tbody>
<tr>
<td>Indranil Sinharoy Southern Methodist University</td>
<td>$500</td>
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<tr>
<td>Elisabeth Shanblatt University of Colorado at Boulder</td>
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<tr>
<td>Anna Hilsmann Fraunhofer Heinrich Hertz Insitute</td>
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<td>Jean Christophe Olivo-Marin Institut Pasteur</td>
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<tr>
<td>Chrysanteh Preza University of Memphis</td>
<td>$670</td>
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<tr>
<td>Adrian Stern Ben Gurion University of the Negev</td>
<td>$269</td>
</tr>
<tr>
<td>Andreas Velten Laboratory for Optical and Computational Instrumentation</td>
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<tr>
<td>Gili Dardikman Tel Aviv University</td>
<td>$500</td>
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<tr>
<td>Maksim Aleksandrovich Volynskii ITMO University</td>
<td>$500</td>
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<tr>
<td>Josef Bille Ruprecht-Karls-Universitat Heidelberg</td>
<td>$670</td>
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<tr>
<td>Martin Wegener Karlsruher Institut für Technologie</td>
<td>$670</td>
</tr>
<tr>
<td>Name</td>
<td>Affiliation</td>
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<td>--------------</td>
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<tr>
<td>Kristina Irsch</td>
<td>Johns Hopkins University</td>
</tr>
<tr>
<td>Andreas Erdmann</td>
<td>Fraunhofer Institute for Integrated Systems and Device Technology</td>
</tr>
<tr>
<td>Moti Fridman</td>
<td>Bar Ilan University</td>
</tr>
<tr>
<td>Amal Ghosh</td>
<td>eMagin Corporation</td>
</tr>
<tr>
<td>Robert Henderson</td>
<td>University of Edinburgh</td>
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<tr>
<td>Achuta Kadambi</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>John MacEachin</td>
<td>Sierra Nevada Corporation</td>
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<tr>
<td>Pantazis Mouroulis</td>
<td>Jet Propulsion Laboratory</td>
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<tr>
<td>Markus Rossi</td>
<td>Heptagon Advanced Micro-Optics Pte Ltd</td>
</tr>
</tbody>
</table>

2. Program Management Support $2,514

Invited Speakers and their Presentations

COSI Invited Speakers and their Presentations

- Christoph Garbe, Ctr Sci Computing, Univ Heidelberg, Germany, Light Field Imaging for Accurate and Realistic Capture of Complex Objects, Invited
- Sylvain Gigan, Laboratoire Kastler-Brossel, France, Compressive Sensing and Optical Computing Thanks to Multiple Scattering, Invited
- Marc Guillon, CNRS UMR8250 Université Paris Descartes, France, The Use of Saturated Negative Speckles for Imaging Through a Scattering Sample, Invited
- Alois Herkommer, Universität Stuttgart, Germany, Optical Design Tools for Computational Imaging Systems, Invited
- Anna Hilsmann, Fraunhofer Heinrich Hertz Institute, Germany, Towards Image-based Modelling, Editing and Rendering, Invited
- Ivo Ihrke, INRIA, Germany, Advances in Non-Invasive Full-State Fluid Capture, Invited
- Bahram Javidi, University of Connecticut, United States, Automated Disease Identification Using Computational 3D Optical Sensing and Imaging Systems, Invited
- Ori Katz, Hebrew University of Jerusalem, Israel, Imaging with Scattered Light, Invited
- Damien Kelly, Technical University of Ilmenau, Germany, Convergence Properties of Temporal Speckle Measurements, Invited
- Manuel Martinez-Corral, Universitat de Valencia, Spain, Fast Axial Scanning in 3D Imaging, Invited

Page 8 of 41
• Allard Mosk, Universiteit Utrecht, Netherlands, Range of Imaging and Focusing through Scattering Media, Invited
• Jean-Christophe Olivier-Marin, Institut Pasteur, France, Mathematical Microscopy, Invited
• Demetri Psaltis, Ecole Polytechnique Federale de Lausanne, Switzerland, Learning From Examples in Optical Imaging, Invited
• Kari Pulli, Intel Corporation, Computational Photography, Invited
• Dirk Robinson, Skybox Imaging, Computational Imaging Approaches, Challenges and R&D Opportunity in the Earth-imaging Remote Sensing Industry, Invited
• Ariel Schwarz, University of Connecticut, Time Multiplexed Pinholes Array based Imaging in the Gamma and X-ray Spectral Range, Invited
• Anne Sentenac, Fresnel Institut, France, Tomographic Diffraction Microscopy: Improving Marker-free Microscopy Resolution Using Holograms and Numerical Reconstructions, Invited
• Adrian Stern, Ben Gurion University of the Negev, Israel, Compressive Gigavoxel Spectral Imaging, Invited
• Andreas Velten, University of Wisconsin-Madison, United States, Non-line-of-sight Imaging Using Active Light Fields, Invited
• Markus Rossi, Heptagon, Switzerland, Miniaturized 3D Imaging and Sensing Modules, Keynote

IS Invited Speakers and their Presentations

• Andreas Erdmann, Fraunhofer IISB, Germany, Resolution Enhancements for Semiconductor Lithography: A Computational Perspective, Invited
• Jorg Fischer, New Ophthalmic Imaging Procedures, Invited
• Boyd Fowler, Omnivision Technologies, Highlights of 2015 International Image Sensor Workshop, Invited
• Moti Fridman, Bar Ilan University, Israel, Temporal Lens Array, Invited
• Amal Ghosh, eMagin Corp., United States, Recent Advances in High Brightness OLED Microdisplays, Invited
• Robert Henderson, University of Edinburgh, United Kingdom, Avalanche-mode High Frame Rate, Low Light CMOS Single Photon Image Sensors, Invited
• Bahram Javidi, University of Connecticut, United States, Advances in 3D Imaging with Applications to Displays, Computational Imaging, Optical Security, and Healthcare, Invited
• Achuta Kadambi, MIT, United States, Macroscopic Interferometry with Electrons, Instead of Photons, Invited
• Ori Katz, Hebrew University of Jerusalem, Israel, To be determined, Invited
• Hendrik Lensch, Eberhard Karls University Tübingen, Germany, To be determined, Invited
• Gao Liang, University of Illinois Urbana-Champaign, United States, Compressed Ultrafast Photography: Redefining the Limit of Passive Ultrafast Imaging, Invited
• John MacEachin, Sierra Nevada Corporation, United States, Optical Design Considerations for Wide Area Imaging Systems, Invited
Other Achievements

1. Plenary Sessions:
   - Trends, Advances and Prospects of Optical Imaging in Germany and Beyond
     Michael Totzeck, Fellow, Corporate Research and Technology, Carl Zeiss AG, Germany
   - Coherent X-ray Imaging
     Keith Nugent, Deputy vice-Chancellor (Research), La Trobe University, Australia
   - Fifty Years of Image Science
     Chris Dainty, Professorial Research Associate, University College London, UK

2. AO & IS Joint Keynote
   Adaptive Optics in Vision Science and Ophthalmology
   Josef Bille, University of Heidelberg, Germany

3. AIO and COSI Keynote
   Miniaturized 3D Imaging and Sensing Modules
   Markus Rossi, Chief Innovation Officer, Heptagon Advanced MicroOptics Pte Ltd, Switzerland

Training and Professional Development Opportunities

1. The Keys to a Successful Career in Optics; Student & Young Professional Career Panel
   The OSA Foundation invited the OSA Members-only career panel for students and young professionals. Hosted by 2016 OSA Ambassadors Aline Dinkelaker and Bettina Heim, the panel featured plenary speakers Chris Dainty, Keith Nugent and Michel Totzeck who discussed career options, the current job market and new technologies to look out for that might be exciting to work with in the future with participants.

2. Poster Sessions
   Posters are an integral part of the technical program and offer a unique networking opportunity, where presenters can discuss their results one-to-one with interested parties. The Meeting featured two poster sessions.

3. OSA Holography and Diffractive Optics Technical Group Networking Event
   Attendees were invited to the Holography and Diffractive Optics Technical Group for a chance
to learn more about this group while connecting with their peers and colleagues in the community. Yunlong Sheng, who serves as the technical group's chair, and Pascal Picart, who serves as vice chair, shared their vision for the technical group and sought attendees' input on future activities and events.


DISSEMINATION

The results of the COSI and IS meetings have been disseminated to communities of interest through the following channels:

- Program Book (http://www.osa.org/osaorg/media/osa_media/Meetings/Archives/2016/2016_Imaging_Program.pdf)
- OSA Blog (http://www.osa.org/en-us/the_optical_society_blog/).
APPENDIX

Appendix A. Schedule at a Glance

<table>
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<th>Sunday, 24 July</th>
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<td>Plenary Session (9:00 - 11:00)</td>
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<td>Lunch (12:30 - 14:00)</td>
<td>Poster Session with Lunch (12:30 - 14:00)</td>
<td>Technical Sessions (14:00 - 15:30)</td>
<td>Poster Session &amp; Exhibits w/Beverage Break &amp; Snacks (15:30 - 17:00)</td>
<td>Technical Session (17:00 - 18:00)</td>
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<tr>
<td>14:00 - 16:00</td>
<td>16:00 - 18:00</td>
<td>Technical Session (16:30 - 18:00)</td>
<td>OSA Centennial: Light the Future Event (16:00 - 18:00)</td>
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<tr>
<td>Technical Sessions (17:00 - 18:00)</td>
<td>Conference Reception</td>
<td>River Cruise</td>
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Appendix B. Conference Publications

COSI Conference Publications


(Optical Society of America, 2016), paper CM3D.2.


Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT1D.4.


Y. Wu and D. Kelly, "Simulation of the diffractive optical element under partially spatial coherent illumination," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CTh1D.3.


S. McCain, S. Feller, and D. Brady, "Gigapixel Television," in Imaging and Applied Optics
2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CTh3B.5.


P. Rangarajan and M. Christensen, "Imaging hidden objects by transforming scattering surfaces into computational holographic sensors," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CTh4B.4.


G. Li, H. TRAN, O. Werhahn, and V. Ebert, "FTIR based measurements of the 2-0 band of HCl at 1.76 μm broadened by CO2," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper JT3A.18.


M. Reichert, X. Sun, and J. Fleischer, "Imaging High-dimensional Spaces with Spatially Entangled Photon Pairs," in Imaging and Applied Optics 2016, OSA Technical Digest (online)


S. Park, J. Jang, and J. Paik, "Computational Image System with Real-Time Controllable Color

X. Liu and S. Duan, "Research on three dimensional reconstruction based on light field focus stack," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper JT3A.46.


K. Onuki, M. Nakajima, T. Okamoto, N. Kawagishi, and H. Yamamoto, "Brightness improvement by polarization modulation in the aerial imaging by retro-reflection (AIRR)," in


IS Conference Publications


V. Kariitans, "Model Eye Incorporating a Manually Tunable Polymer Lens and Microfluidics Chamber for Simulation of Vitreous Floaters," in Imaging and Applied Optics 2016, (Optical


Optics 2016, (Optical Society of America, 2016), paper JM2D.1.


G. Li, H. Tran, O. Werhahn, and V. Ebert, "FTIR based measurements of the 2-0 band of HCl at 1.76 Åμm broadened by CO2," in Imaging and Applied Optics 2016, (Optical Society of America, 2016), paper JT3A.18.


J. Park, J. Bae, H. Ahn, and J. Jin, "Thickness profile measurement of the double-layered glass substrate based on transmission-type spectral domain interferometer," in Imaging and Applied


V. Katkovnik, "Sparse phase retrieval from noisy data: variational formulation and algorithms,"
in Imaging and Applied Optics 2016, (Optical Society of America, 2016), paper JT3A.42.


K. Onuki, M. Nakajima, T. Okamoto, N. Kawagishi, and H. Yamamoto, "Brightness
improvement by polarization modulation in the aerial imaging by retro-reflection (AIRR)," in Imaging and Applied Optics 2016, (Optical Society of America, 2016), paper JT3A.65.


M. Park, J. Seo, and H. Choi, "A 22-inch adaptive augmented reality display using a dot


Appendix C. List of Committee Members

COSI Committee Members:
Laura Waller, University of California Berkeley, UNITED STATES, Chair
Chrysanthe Preza, University of Memphis, UNITED STATES, Chair
Joseph Mait, US Army Research Laboratory, UNITED STATES, Chair
Amit Ashok, University of Arizona, UNITED STATES
Edmund Lam, University of Hong Kong, HONG KONG
David Gerwe, Boeing - Phantomworks, UNITED STATES
Joseph Ford, University of California, San Diego,
gordon wetzstein, Stanford University,
Sapna Shroff, Light, UNITED STATES
Kedar Khare, Indian Institute of Technology, Delhi, INDIA
Rafael Piestun, University of Colorado at Boulder, UNITED STATES
Michael Unser, Ecole Polytechnique Federale de Lausanne, SWITZERLAND
Andrew Harvey, University of Glasgow, UNITED KINGDOM
Michael Hirsch, Max Planck Inst for Intelligent Systems, GERMANY
Oliver Cossairt, Northwestern University, UNITED STATES
Kenneth Kubala, FiveFocal, LLC, UNITED STATES
Sri Rama Prasanna Pavani, Exnodes, UNITED STATES
Michael Gehm, Duke University, UNITED STATES
Eddie Jacobs, University of Memphis, UNITED STATES
Ravindra Anant Athale, Office of Naval Research, UNITED STATES
Ram Narayanswamy, Intel Corporation, UNITED STATES
Marc Christensen, Southern Methodist University, UNITED STATES
Zeev Zalevsky, Bar-Ilan University, ISRAEL
Lars Omlor, Carl Zeiss AG, GERMANY

IS Committee Members:
Kristina Irsh, Johns Hopkins University, UNITED STATES, Chair
Rajesh Menon, University of Utah, UNITED STATES, Chair
Abbie Watnik, US Naval Research Laboratory, UNITED STATES
Michael Groenert, NVESD,
Lingfei Meng, Ricoh Innovations Corporation, UNITED STATES
Laura Waller, University of California Berkeley, UNITED STATES
Xiaocong Yuan, Shenzhen University, CHINA
James Fienup, University of Rochester, UNITED STATES
Matthew Arnison, Canon Info Sys Research Australia, AUSTRALIA
Lise Randeberg, Norges Teknisk Naturvitenskapelige Univ, NORWAY
Kathrin Berkner, Ricoh Innovations, Inc., UNITED STATES
Todd Sachs, Apple Inc., UNITED STATES
Ofer Levi, University of Toronto, CANADA
Ginni Grover, Intel Labs, UNITED STATES
David Rabb, US Air Force Research Laboratory, UNITED STATES
Francisco Imai, Canon USA, Inc., UNITED STATES
Zeev Zalevsky, Bar-Ilan University, ISRAEL
Christopher Dainty, University College London, IRELAND
Joyce Farrell, Stanford University, UNITED STATES
Michael Kriss, MAK Consultants, UNITED STATES
Chulmin Joo, Yonsei University, SOUTH KOREA
Byoungho Lee, Seoul National University, SOUTH KOREA
Ravindra Anant Athale, Office of Naval Research, UNITED STATES
Dale Linne von Berg, US Naval Research Laboratory, UNITED STATES, Program Chair
Peter Catrysse, Stanford University, UNITED STATES, Program Chair
Boyd Fowler, Google, UNITED STATES, Program Chair
Torbjorn Skauli, Norwegian Defense Research Establishment, NORWAY, Program Chair