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Infrared Imaging Systems: Design, Analysis, Modeling, and Testing XXX

**Gerald C. Holst
Keith A. Krapels**
Editors

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Contents

vii	<i>Authors</i>
ix	<i>Conference Committee</i>
xiii	<i>Introduction</i>

SESSION 1 MODELING I

11001 02	30 years of value engineering to the IR community (Invited Paper) [11001-1]
----------	--

SESSION 2 MODELING II

11001 03	Evaluating the performance of reflective band imaging systems: a tutorial (Invited Paper) [11001-2]
11001 04	Nonlinear pixel non-uniformity: emulation and correction [11001-3]
11001 05	SWIR sensor "see-spot" modelling and analysis [11001-4]
11001 06	Sunburn study of VO_x microbolometers [11001-5]

SESSION 3 MODELING III

11001 07	Experiments in detecting obscured objects using longwave infrared polarimetric passive imaging [11001-33]
11001 08	Range performance across the field of view of a camera [11001-6]
11001 09	An intensified camera module for the range performance model TRM4 [11001-7]
11001 0A	Simulating human vehicle identification performance with infrared imagery and augmented reality assistance [11001-8]
11001 0C	Implementation of a non-linear CMOS and CCD focal plane array model in ASSET [11001-10]

- 11001 0D **Image quality for an IRFPA: a system integrator point of view** [11001-11]
- 11001 0E **Validation of an infrared sensor model with field collected imagery of unresolved unmanned aerial vehicle (UAV) targets** [11001-44]

SESSION 4 MODELING IV

- 11001 0G **EO system design and performance optimization by image-based end-to-end modeling** [11001-13]
- 11001 0H **Generalization of active radar imaging and passive imaging models applied to wide band terahertz array imaging systems** [11001-14]
- 11001 0J **A data-constrained algorithm for the emulation of long-range turbulence-degraded video** [11001-16]
- 11001 0K **Image visualization for infrared cameras using radiometry** [11001-17]

SESSION 5 MODELING V

- 11001 0L **Using synthetic environments to assess multi-sensor system performance** [11001-20]
- 11001 0M **An update on PWP enhancement for LWIR target acquisition sensors** [11001-18]
- 11001 0N **Meteorological property and temporal variable effect on spatial semivariance of infrared thermography of soil surfaces for detection of foreign objects** [11001-19]
- 11001 0O **Design of target source for missile tracking capabilities and guarantee vehicle** [11001-21]

SESSION 6 MODELING VI

- 11001 0Q **Canonical images** [11001-22]
- 11001 0R **Optimizing microscan for radiometry with cooled IR cameras** [11001-23]

SESSION 7 TEST I

- 11001 0T **Parameter exploration for spectral estimation of speckle imagery in modulation transfer function measurements** [11001-25]
- 11001 0U **Through display measurement of signal intensity transfer function and noise for thermal systems** [11001-26]

11001 0V **Advancing the performance of extended area blackbody sources in order to stay ahead of the IR camera improvements [11001-27]**

SESSION 8 TEST II

11001 0W **Vantablack properties in commercial thermal infrared imaging systems [11001-28]**

SESSION 9 ATMOSPHERIC EFFECTS I

11001 0Z **Multispectral short-range imaging through artificial fog [11001-31]**

11001 10 **Measuring optical turbulence using a laser DIMM in support of characterization of imaging system performance [11001-32]**

11001 12 **Profiling atmospheric turbulence using time-lapse imagery from two cameras [11001-34]**

SESSION 10 ATMOSPHERIC EFFECTS II

11001 14 **Measurement and analysis of infrared atmospheric aerosol blur [11001-36]**

11001 15 **Probabilistic metrics to quantify the accuracy of sparse and redundant representation models of atmospheric turbulence [11001-37]**

11001 16 **Identifying low-profile objects from low-light UAS imagery using cascading deep learning [11001-38]**

POSTER SESSION

11001 17 **Inverse analysis of NIR and SWIR reflectance spectra for dye mixtures in fabrics using analytical basis functions [11001-39]**

11001 18 **Simple correction model for blurred images of uncooled bolometer type infrared cameras [11001-40]**

11001 19 **Mode-selective read-in integrated circuit with improved input range for infrared scene projectors [11001-41]**

11001 1A **Residual stress analysis of anodic aluminum oxide thin films for infrared emitter device application [11001-42]**

11001 1B **Introducing a general purpose S/W for IR image generation and analysis [11001-43]**

Authors

Numbers in the index correspond to the last two digits of the seven-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first five digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Adams, Arnold, 0W	Hill, Tyler A., 15
Amparan, Gabriel A., 0W	Hixson, Jonathan G., 10
Archibald, Aaron J., 12	Hogervorst, M. A., 0G
Bahhur, Bassam, 0Q	Holst, Gerald, 14
Baldwin, Kevin C., 10	Hunt, Bobby R., 15
Barnard, Kenneth J., 0T	Iizuka, Hiroyuki, 18
Barrat, Catherine, 0V	Iler, Amber L., 15
Belhaire, Eric, 0D	Jacobs, Eddie L., 0Q
Besnard, Véronique, 0D	Jaegar, Alan, 16
Bijl, P., 0G	Jaegar, Ryan, 16
Bohm, Johannes, 0R	Judd, Kelsey M., 0Z
Bose-Pillai, Santasri R., 12	Keßler, Stefan, 09
Brown, Andrea M., 10	Kim, Chang-Won, 1B
Brown, David M., 10	Kim, Do-Hwi, 1B
Brown, Jarrod P., 07	Kim, Tae-Kuk, 1B
Burks, Stephen D., 03, 0U	Krauß, Matthias, 0R
Butrimas, Steve, 14	Lambrakos, S. G., 17
Campbell, Georgianna, 16	Larios Huerta, Antonio, 08
Cao, YiTao, 0O	Lee, Hee Chul, 19, 1A
Card, Darrell B., 07	Leonard, Kevin R., 0J
Cho, Min Ji, 19	Littlejohn, Duke, 0M
Choi, Jun-Hyuk, 1B	Lyle, Jamie R., 16
Clausen, Jay L., 0N	Manville, D., 0E
Dammass, Gunnar, 0R	Marciniak, Michael A., 0T
David, Asaf, 06	Matis, Gregory, 0W
Doe, Joshua M., 03, 0U	Matsumiya, Takeshi, 18
Driggers, Ronald, 0E, 0H, 0M, 14	Mayo, T., 17
Du Bosq, Todd W., 0A, 0J	McCrae, Jack E., 12
Fernandez, Fernando D., 0C	McHugh, Steve, 0W
Fiorino, Steven T., 12	Miller, Kevin J., 0J
Fourie, Henning, 05	Moore, John, 0W
Fudala, N., 0E	Nguyen, Rachel T. T., 0A
Furxhi, Orges, 0H	Nicol, Fred, 0W
Gaudiosi, D., 0E	Nihei, Ryota, 18
Gemar, H., 0E	Olson, C., 0E
Goss, Tristan M., 05	Overbey, Lucas A., 16
Göttfert, Fabian, 0R	Özaraç, Seçkin, 0K
Graybeal, John J., 0A	Pace, T., 0E
Gross, Elad, 06	Pan, Jean, 16
Gross, Kevin C., 0C	Pérez, José, 09
Gu, Jie, 0O	Plummer, Philip J., 0T
Guériaux, Vincent, 0D	Preece, Bradley, 0J
Haefner, David P., 03, 04, 08, 0U	Qiu, YaFeng, 0O
Halford, C., 0E	Qiu, YunZe, 0O
Hanna, Randall T., 10	Ramsey, S., 17
Hawks, Michael, 0C	Redman, Brian J., 0Z
Haynes, T., 0L	Rice, Christopher A., 12
Heisig, Konrad, 0R	Richards, Austin A., 0Z
Hewitt, J., 0E	Richardson, Kathleen, 14

Roberts, Rodney G., 07
Ruane, Martin, 16
Rucci, Michael A., 15
Scopatz, Stephen, 0V
Shelton, D., 0E
Shin, Young Bong, 1A
Short, Robert, 0E, 0M
Soel, Michael A., 02
Steiner, Dov, 09
Steward, Bryan J., 0C
Tanaka, Yutaka, 18
Teaney, Brian P., 03
Tener, G., 0E
Theisen, M., 0E
Thornton, Michael P., 0Z
Van Epps, Todd, 16
Vicedomine, Emily A., 08
Viger, R., 17
Vijjoen, Johan W., 05
Wagner, Michael C., 07
Workman, Austin K., 0N
Zhang, Lei, 0H

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- 1 Modeling I
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- 4 Modeling IV
Richard L. Espinola, U.S. Naval Research Laboratory (United States)
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- 5 Modeling V
Russell M. Drake, Raytheon Network Centric Systems (United States)
Ronald G. Driggers, IMEC USA - Florida (United States)
Piet Bijl, TNO Defence, Security and Safety (Netherlands)
- 6 Modeling VI
Katrin Braesicke, Fraunhofer-Institut für Optronik, Systemtechnik und Bildauswertung (Germany)
James A. Dawson, Dynetics, Inc. (United States)
Gisele Bennett, Florida Institute of Technology (United States)
- 7 Test I
Curtis Webb, L-3 Technologies Cincinnati Electronics (United States)
Alan Irwin, Santa Barbara Infrared, Inc. (United States)
- 8 Test II
Curtis Webb, L-3 Technologies Cincinnati Electronics (United States)
Alan Irwin, Santa Barbara Infrared, Inc. (United States)

- 9 Atmospheric Effects I
Richard L. Espinola, U.S. Naval Research Laboratory (United States)
Katrin Braesicke, Fraunhofer-Institut für Optronik, Systemtechnik und
Bildauswertung (Germany)
Eric J. Kelmelis, EM Photonics, Inc. (United States)
- 10 Atmospheric Effects II
Richard L. Espinola, U.S. Naval Research Laboratory (United States)
Katrin Braesicke, Fraunhofer-Institut für Optronik, Systemtechnik und
Bildauswertung (Germany)
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Introduction

This is the 30th year for our conference, Infrared Imaging Systems: Design, Analysis, Modeling, and Testing. Mike Soel provided an excellent walk down memory lane with his paper **"30 years of value engineering to the IR community."** One of us (Gerald C. Holst) received an award for chairing all 30 conferences. There he is pictured below with the conference committee.

Left to right (standing); Richard Espinola, Endre Repasi, Katrin.Braesicke, Piet Bijl, Gerald Holst, Michael Soel, Eddie Jacobs, David Haefner, Orges Fuxhi, Alan Irwin, Ronald Driggers (Sitting) Joseph Reynolds, James Dawson.

For time to time we have joint session with other conferences. Again, we teamed up with the long-range imaging conference chaired by Eric Kelmelis.

In 2016, our conference committee created two Best Paper awards. One based upon the presentation (selected by the conference committee) and the other, the most downloaded in the first 3 months after publication. The most downloaded paper represents the current hot topic. We recommend readers review these outstanding papers. The 2016 and 2017 papers are listed in the Introduction to SPIE Proceeding volume 10625 (2018).

2018

Best presentation

David P. Haefner, "MTF measurements, identifying bias, and estimating uncertainty" Proc. SPIE 10625, paper 1062506 (2018).

Most downloaded paper (first 3 months after publication)

Robert Nicholas, Ronald Driggers, David Shelton and Orges Furxhi, "Infrared search and track performance estimates for detection of commercial unmanned aerial vehicles." Proc. SPIE 10625, paper 106250Y (2018).

2019

Best presentation

Kevin J Miller, Bradley Preece, Todd du Bosq, Kevin Leonard, "A data-constrained algorithm for the emulation of long-range-turbulence-degraded video." Proc. SPIE 11001 paper 110010J (2019).

Most downloaded paper (first 3 months after publication)

Brian P. Teaney, David P. Haefner, Stephen D. Burks, and Joshua M. Doe, "Evaluating the performance of reflective band imaging systems (a tutorial)," Proc. SPIE 11001 (2019).

Thank you to all who presented, the attendees, our excellent conference committee, and SPIE.

**Gerald C. Holst
Keith A. Krapels**