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Belur V. Dasarathy
Editor

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Contents

vii	Conference Committee
ix	Introduction

IMAGE LEVEL ISSUES AND APPLICATIONS

6974 02	Portable real-time color night vision [6974-01] A. Toet, M. A. Hogervorst, TNO Human Factors (Netherlands)
6974 03	Method for applying daytime colors to nighttime imagery in realtime [6974-02] M. A. Hogervorst, A. Toet, TNO Human Factors (Netherlands)
6974 04	Advances in image registration and fusion [6974-03] C. Steer, J. Rogers, M. Smith, J. Heather, M. Bernhardt, D. Hickman, Waterfall Solutions, Ltd. (United Kingdom)
6974 05	Further exploration of the object-image metric with image registration in mind [6974-04] O. L. Mendoza, G. Arnold, Air Force Research Lab. (USA); P. Stiller, Texas A&M Univ. (USA)
6974 06	Fusion of combined stereo and spectral series for obtaining 3D information [6974-05] I. Gheeta, M. Mathias, Univ. Karlsruhe (Germany); M. Heizmann, Fraunhofer-Institut für Informations- und Datenverarbeitung IITB (Germany); J. Beyerer, Univ. Karlsruhe (Germany) and Fraunhofer-Institut für Informations- und Datenverarbeitung IITB (Germany)

DETECTION AND CLASSIFICATION

6974 07	Multi-class classification fusion using boosting for identifying steganography methods [6974-06] B. M. Rodriguez, G. L. Peterson, Air Force Institute of Technology (USA)
6974 08	Comparing discrimination and CFA for selecting tracking features [6974-07] D. M. Lyons, D. F. Hsu, Fordham Univ. (USA)
6974 09	Real-time object-based image registration using multilayer perceptron [6974-09] P. L. Narasimha, Z. Yue, P. Topiwala, FastVDO, Inc. (USA)
6974 0A	A heterogeneous sensor network simulation system with integrated terrain data for real-time target detection in 3D space [6974-10] H. Lin, S. Tanner, J. Rushing, S. Graves, E. Criswell, Univ. of Alabama in Huntsville (USA)

SURVEILLANCE AND TRACKING

6974 0B	Vehicle tracking in UAV video using multi-spectral spatiogram models [6974-11] N. E. O'Connor, P. Kehoe, C. O'Conaire, A. F. Smeaton, Dublin City Univ. (Ireland)
---------	---

- 6974 0C **Dynamic resource management for adaptive distributed information fusion in large volume surveillance** [6974-12]
R. Farahbod, U. Glässer, Simon Fraser Univ. (Canada); H. Wehn, MDA Corp. (Canada)
- 6974 0D **Situation-aware BDI agents in support of autonomous intelligence, surveillance, and reconnaissance (ISR) analysis** [6974-13]
L. Lewis, G. Jakobson, J. Buford, Altusys Corp. (USA)
- 6974 0E **A system for testing distributed information fusion applications for maritime surveillance** [6974-14]
H. Wehn, J. Happe, MacDonald, Dettwiler and Associates, Ltd. (Canada); A. Guitouni, P. Valin, É. Bossé, Defence R&D Canada, Valcartier (Canada)
- 6974 0F **A field demonstration of multi-INT surveillance and data fusion** [6974-15]
A. Na, S. Havens, Argon ST (USA)

APPLICATIONS

- 6974 0G **Data and sensor fusion for bistatic applications** [6974-21]
A. L. Lee, Walden Univ. (USA)
- 6974 0H **Smart optical receiver for beamforming and enhancement of field of view in LADAR systems** [6974-22]
J. Khoury, Air Force Research Lab. (USA); B. Haji-saeed, Solid State Scientific Corp. (USA); C. L. Woods, Air Force Research Lab. (USA); J. Kierstead, Solid State Scientific Corp. (USA)
- 6974 0J **The use of a multidimensional space for fusion candidate representation in a maritime domain awareness application** [6974-18]
E. Lefebvre, Lockheed Martin Canada (Canada); C. Helleur, N. Kashyap, Defence Research and Development Canada (Canada)
- 6974 0K **A Markov game model for space threat prediction** [6974-16]
D. Shen, Intelligent Automation, Inc. (USA); E. Blasch, AFRL/Ryaa (USA); G. Chen, DCM Research Resources, LLC (USA); K. Pham, AFRL (USA); J. B. Cruz, Jr., The Ohio State Univ. (USA); T. M. Schuck, Lockheed Martin MS2 (USA)

MISCELLANEOUS TOPICS

- 6974 0L **Non-algorithmic information fusion** [6974-26]
J. Brander, Interactive Engineering (Australia)
- 6974 0M **About the fusion of default knowledge** [6974-27]
É. Grégoire, CRIL CNRS, Univ. d'Artois (France)
- 6974 0N **Advanced algorithms for distributed fusion** [6974-28]
A. Gelfand, C. Smith, M. Colony, Decisive Analytics Corp. (USA); C. Bowman, Data Fusion and Neural Networks (USA); R. Pei, T. Huynh, C. Brown, U.S. Army CERDEC Intelligence and Information Warfare Directorate (USA)

- 6974 0O **Dynamic adaptive learning for decision-making supporting systems** [6974-29]
H. He, Y. Cao, S. Chen, Stevens Institute of Technology (USA); S. Desai, M. E. Hohil, U.S. Army
Armament Research, Development and Engineering Center (USA)
- 6974 0P **Distributed multi-sensor fusion** [6974-30]
P. Scheffel, R. Fish, R. Knobler, T. Plummer, McQ, Inc. (USA)

POSTER SESSION

- 6974 0Q **Intermediate view reconstruction using adaptive disparity search algorithm for real-time 3D processing** [6974-31]
K. Bae, C. Park, Samsung Thales Co., Ltd. (South Korea); E. Kim, Kwangwoon Univ.
(South Korea)
- 6974 0R **Automatic extraction of corresponding-points for image registration** [6974-32]
J.-H. Jung, W.-C. Choi, D.-J. Park, KAIST (South Korea); C.-H. Park, J.-I. Lee, Samsung Thales
Co., Ltd. (South Korea)
- 6974 0S **Design of time-pulse coded optoelectronic neuronal elements for nonlinear transformation and integration** [6974-33]
V. G. Krasilenko, A. I. Nikolsky, A. A. Lazarev, M. V. Lazareva, Open International Univ. of
Human Development (Ukraine)

Author Index

Conference Committee

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Detection and Classification

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Surveillance and Tracking

Jerome J. Braun, MIT Lincoln Laboratory (USA)

Shanchieh J. Yang, Rochester Institute of Technology (USA)

Applications

Pierre Valin, Defence Research and Development Canada, Valcartier (Canada)

Nour-Eddin El Faouzi, Institut National de Recherche sur les Transports (France)

Miscellaneous Topics

Jerome J. Braun, MIT Lincoln Laboratory (USA)

Michael Heizmann, Fraunhofer-Institut für Informations-und Datenverarbeitung (Germany)

Performance Evaluation for Impact Assessment System Panel

Panel Moderators

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Introduction

This is our 12th consecutive successful offering in the ongoing series on multisensor, multisource information fusion. We are glad to mark another milestone, namely we have so far published in these proceedings over 400 papers. As we have noted in prior editorials, we have modified the title over the years to reflect the broadening of the scope of the conference to include fusion of information not only from multiple traditional sensors but also from other nontraditional data sources. The expanded scope also includes fusion of information derived through multiple information extraction algorithmic processes. As the title indicates these proceedings are spread across the three key facets of developments in the field, namely, architectures, algorithms, and applications. In order to better reflect the ground truth, the sessions and their titles are redefined each year to represent the changing contents driven by the evolving research and development in the community. This year, the presentations have been grouped into the following five sessions:

- Image Level Issues and Applications
- Detection and Classification
- Surveillance and Tracking
- Applications
- Miscellaneous Topics

An innovation this year is a panel session on "Performance Evaluation for Impact Assessment Systems." A written report on the panel session will be published in due course either in the next year's issue of the conference proceedings or elsewhere as convenient.

In accordance with the traditions followed over the years at this conference, and in contrast to the general policy of post-conference publication of the proceedings at most SPIE conferences, we have worked hard to once again provide the printed proceedings on-site at the conference. This has not only served the purpose of rapid dissemination in print form of the most recent developments in this area but also helped in better understanding of the oral presentations. Incidentally, it also complements the prime archival journal in this field, *Information Fusion*, which because of its dependence on formal and rigorous peer reviews is a more drawn-out process along the timeline. Another benefit, of this procedure of making the proceedings available on-site at the time of the conference, is that it enables better quality control over the presentations by limiting the program to those that have the full manuscript ready and thereby ensuring a more mature presentation. Indeed this process resulted in a significant culling of the initial submissions. While this decrease represents the downside of the process, we remain confident of its upside, namely, better quality control.

The international character of this conference is once again reflected, not only in the program committee, but also in the contents of the proceedings, which includes 26 papers from 10 countries (representing a significant doubling in the spread as compared to last year) spread over multiple continents: Australia, Canada, France, Germany, Ireland, Netherlands, South Korea, Ukraine, United Kingdom, and, obviously, the United States. We plan to continue this series in the coming year and look forward to your participation, hopefully in greater numbers and depending upon the state of global politics and economy from a wider geographical background and at a higher level. Further details regarding the call for papers and schedule for next year will be made available in due course on the Internet at SPIE (www.spie.org) as well as on my home page (<http://belur.no-ip.com>).

In accordance with our long held tradition, the variation in the size of these proceedings in terms of the number of papers offered under this series over the years is graphically illustrated below in Figure 1 to provide us with an introspective look at our performance over the years. While the presentations this year is on par with last year, the number of presentations is still down from our peaks attained earlier in the decade. Possible reasons for this include:

- (a) multiplicity of conferences catering to the fusion topic across the globe, a distinct change from the scenario of uniqueness we had when this event was initiated 12 years back,
- (b) perhaps a more significant one is the increasing overlap in terms of the scope with other conferences here itself at this Defense and Security Symposium at Orlando that do not impose our stringent requirement of full manuscripts well before the conference time. (It is far easier to put together an abstract than to complete writing a full manuscript).
- (c) a third cause, we suspect, is international travel related hardships including meeting stringent visa requirements, economic and geopolitical realities, all of which continue to have a chilling impact on attendance in US.

It is therefore critical that all of us who are interested in the continued success of this annual event to maximize our efforts for next year to ensure continued viability of the conference in the future. Towards this end, we welcome from the conference participants and the readership of this proceedings on ways to rejuvenate the growth of this conference and broaden its appeal in the coming years. Those interested in active participation, perhaps in terms of joining the program committee and/or develop special sessions for the next year should contact me at fusion_consultant@yahoo.com as soon as possible (preferably by March 31, 2008).

In closing, I am pleased to acknowledge the authors for choosing this avenue for publication of their contributions. I also would like to take this opportunity to thank the members of my program committee and the session chairs for their continued support. Thanks are also due to SPIE staff for their invaluable help in making this all possible.

कायेन वाचा मनसेन्द्रियैर्वा
बुध्यात्मनावा प्रकृते स्वभावात्
करोमि यद्यत् सकलं परस्मै
श्रीमन्नारायणायेति समर्पयामि

"kaayena vaachaa manasendriyaiirvaa
budhyaatmanaavaa prakR^ite svabhaavaat
karomi yadyat sakalaM parasmai
shriiman naaraayaNaayeti samarpayaami"

Be it with my body, or with my mind
With words, or organs of any kind,
With my intellect, or with my soul,
Or by force of Nature pushing me to my goal,
Whatever it is, with all these I do,
Oh! Supreme Lord! I surrender to you.

Wishing all of you a safe return journey

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Figure 1. Number of papers published over the years in this series