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Automatic Target Recognition XXII

Firooz A. Sadjadi
Abhijit Mahalanobis
Editors

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Contents

vii	Conference Committee
ix	Introduction

SESSION 1 IR-BASED ATR

- 8391 02 **Hybrid methodology for the detection, tracking, and classification of humans in difficult infrared video** [8391-01]
J. R. Bonick, U.S. Army Night Vision and Electronic Sensors Directorate (United States)
- 8391 03 **Improving FLIR ATR performance in a turbulent atmosphere with a moving platform (Best Paper Award)** [8391-02]
D. D. Baumgartner, B. J. Schachter, Northrop Grumman Electronic Systems (United States)
- 8391 04 **Time series modeling for automatic target recognition** [8391-03]
A. Sokolnikov, Visual Solutions and Applications (United States)
- 8391 05 **Robust automatic target recognition in FLIR imagery** [8391-05]
Y. Soyman, Middle East Technical Univ. (Turkey)
- 8391 06 **Seeing through degraded visual environment** [8391-06]
F. A. Sadjadi, Lockheed Martin Corp. (United States)

SESSION 2 ADVANCES IN RADAR-BASED ATR I

- 8391 09 **Analysis of vehicle vibration sources for automatic differentiation between gas and diesel piston engines** [8391-09]
K. J. Sigmund, S. J. Shelley, M. Bauer, Etegent Technologies, Ltd. (United States); F. Heitkamp, AFRL/RYMMA (United States)

SESSION 3 ADVANCES IN RADAR-BASED ATR II

- 8391 0A **Locating emitters using a cross-spectral cross-ambiguity function (CSCAF)** [8391-10]
D. J. Nelson, U.S. Dept. of Defense (United States)
- 8391 0B **Radar target recognition using non-cooperative scatterer matching game** [8391-11]
I. Jouny, Lafayette College (United States)
- 8391 0C **Maritime target identification in flash-ladar imagery** [8391-12]
W. Armbruster, M. Hammer, Fraunhofer Institute of Optronics, System Technologies, and Image Exploitation (Germany)

SESSION 4 ADVANCES IN ACOUSTIC PROCESSING

- 8391 0D **Dispersion-invariant features for classification of objects from their acoustic backscatter in a range-dependent channel** [8391-13]
V. T. Gomatam, P. Loughlin, Univ. of Pittsburgh (United States)
- 8391 0E **Constructing and estimating probability distributions from moments** [8391-14]
J. Tekel, L. Cohen, City Univ. of New York (United States)
- 8391 0F **The scintillation index for reverberation noise** [8391-15]
L. Cohen, A. Ahmad, City Univ. of New York (United States)

SESSION 5 ADVANCES IN ALGORITHMS FOR ATR I

- 8391 0G **Automated recognition challenges for wide-area motion imagery (Invited Paper)** [8391-16]
K. L. Priddy, D. A. Uppenkamp, Air Force Research Lab. (United States)
- 8391 0H **Defining ATR solutions using affine transformations on a union of subspaces model** [8391-17]
C. F. Hester, K. K. D. Risko, U.S. Army Research, Development, and Engineering Command (United States)
- 8391 0I **Spatio-temporal features for tracking and quadruped/biped discrimination** [8391-18]
R. Rickman, K. Copsey, D. C. Bamber, S. F. Page, Digital Barriers (United Kingdom)
- 8391 0J **Robust model-based object recognition using a dual-hierarchy graph** [8391-19]
I. Weiss, Univ. of Maryland, College Park (United States)
- 8391 0K **Watercraft detection in short-wave infrared imagery using a tailored wavelet basis** [8391-20]
C. C. Olson, Sotera Defense Solutions (United States); K. P. Judd, U.S. Naval Research Lab. (United States); K. Chander, A. J. Smith, V Systems, Inc. (United States); M. Conant, ONR SEAP Student (United States); J. M. Nichols, U.S. Naval Research Lab. (United States)
- 8391 0L **Multi-cue object detection and tracking for security in complex environments** [8391-21]
U. Ahsan, S. A. Sattar, NED Univ. of Engineering and Technology (Pakistan); H. Noor, Technische Univ. München (Germany); M. Zafar, Georgia Institute of Technology (United States)
- 8391 0M **SAR automatic target recognition via non-negative matrix approximations (Best Student Paper Award)**[8391-22]
V. Riasati, MacAulay-Brown, Inc. (United States); U. Srinivas, V. Monga, Pennsylvania State Univ. (United States)
- 8391 0N **Sensor agnostic object recognition using a map seeking circuit** [8391-23]
T. L. Overman, M. Hart, Lockheed Martin Space Systems Co. (United States)

SESSION 6 ADVANCES IN ALGORITHMS FOR ATR II

- 8391 0O **Image reconstruction and target acquisition through compressive sensing** [8391-24]
R. Muise, M. Suttinger, Univ. of Central Florida (United States)

- 8391 OP **The incredible shrinking covariance estimator** [8391-25]
J. Theiler, Los Alamos National Lab. (United States)
- 8391 OQ **Design and implementation of a wireless geophone sensor node for target detection and classification** [8391-26]
M. Zubair, K. Hartmann, O. Loffeld, Univ. of Siegen (Germany)
- 8391 OR **Feature-level fusion of multiple target detection results in hyperspectral image based on RX detector** [8391-27]
X. Sun, B. Zhang, Ctr. for Earth Observation and Digital Earth (China); L. Yang, Institute of Remote Sensing Applications (China); L. Gao, W. Zhang, Ctr. for Earth Observation and Digital Earth (China)

Author Index

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Edmund G. Zelnio, Air Force Research Laboratory (United States)

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- 1 IR-Based ATR
Firooz A. Sadjadi, Lockheed Martin Maritime Systems & Sensors (United States)
- 2 Advances in Radar-Based ATR I
Firooz A. Sadjadi, Lockheed Martin Maritime Systems & Sensors (United States)
- 3 Advances in Radar-Based ATR II
Charles F. Hester, U.S. Army Research, Development and Engineering Command (United States)
- 4 Advances in Acoustic Processing
Leon Cohen, Hunter College (United States)
- 5 Advances in Algorithms for ATR I
Bruce J. Schachter, Northrop Grumman Electronic Systems (United States)
- 6 Advances in Algorithms for ATR II
Izidor Gertner, The City College of New York (United States)

Introduction

These proceedings contain the technical papers that were presented at the 2012 conference on Automatic Target Recognition (ATR).

This was the 22nd in a series of international conferences that are dedicated to the science and technology of automatic target recognition. Once again this meeting, this year held in Baltimore, Maryland, provided the forum for discussing the issues, problems, and solutions associated with the new roles that are being demanded of the ATR technology.

To encourage excellence in research leading to noteworthy publications in the field of ATR technology a few years ago, with help from Lockheed Martin Corporation, we initiated the annual Best ATR paper Awards. This year we had two winners: "Improving FLIR ATR performance in a turbulent atmosphere with a moving platform," authored by D. Baumgartner and B. Schachter, both from Northrop Grumman Corporation, and "High-range-resolution (HRR) ATR via non-negative matrix approximations," authored by V. Riasati, MacAulay-Brown, Inc., U. Srinivas, and V. Monga, both from Pennsylvania State University.

We thank the authors, speakers, session chairs, committee members, the SPIE coordinators and all participants that once again, through their enthusiasm and active participation, made this year's conference and working group meeting, educational, enjoyable, and successful.

Firooz A. Sadjadi
Abhijit Mahalanobis