

Curriculum Vitae: Hagit Messer

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Contacts:

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Educational Background

From Year	To Year	Institution	Specialization	Degree
1973	1977	Tel Aviv University	Electrical Eng. (EE)	B.Sc.
1977	1979	Tel Aviv University	EE - Signal Processing	M.Sc.
1979	1984	Tel Aviv University	EE - Signal Processing	PhD.
1985	1986	Yale University	EE - Source localization	Post. Doc.

Employment History

From Year	To Year	Institution	Type of organization	Title
1986	present	Tel Aviv University	University	- Professor Emerita (October 2021-) - DPO (May 2019- March 2023) - The Kranzberg Chair in Signal Processing (2016-2023) - Vice President for Research & Chair of RAMOT (2005-8) - Head, the Porter School of Environmental Studies (2003-5) - Head of undergraduate EE program (1999-2000 & 2003-4)
2016		ClimaCell	Start-up company	Co-founder and Chief Scientist [not active in the company since January 1, 2017]
2013	2016	Council for Higher Education	Regulation	Vice Chair
2008	2013	The Open University	University	President
2000	2003	Ministry of Science	Government	Chief Scientist and head, directorate of science

International visits and formal collaboration (partial list)

- Yale Univ. (US) - 1985-6, summer 1994
- NJIT (US) – 1991-2, summer 1994
- ENST (France) – summer 1997
- CERN (CH) – winter 2004, 2005, 2006, 2007, 2009
- ETIS-ENSEA (France) – summer 2014
- Harvard Hi-Lab (US) – summer 2016
- Institute of Atmospheric Physics, Chinese Academy of Sciences – winter 2019
- Columbia Univ. (US) – short visits on 2019, 2021, 2022, 2024

Academic and Professional Awards and Recognition

- 2024 **IEEE Medal for Environmental and Safety Technologies**
- 2022 **Outstanding Article award** within Frontiers in Signal Processing: "Rain Field Retrieval by Ground-Level Sensors of Various Types"
- 2022 **Outstanding associate editor award**, Frontiers in Signal Processing
- The IEEE **Clementina Saduwa Award 2020**
- Finalist in the ICASSP 2020 Best paper award (4/730) **and** Best paper Student Award (8/1170) - coauthor

- **IEEE Life Fellow**, from January 1, 2019
- **PIFI fellow**, Visiting Scientist Award, Chinese Academy of Sciences, President's International Fellowship Initiative (PIFI), 2018
- Member of "The Directors Team (2017, 2022)". the Government Companies Authority
- The Kranzberg **Chair** in Signal Processing, TAU, 2016
- **Honorary Fellow** of the Open University, Israel, 2016
- **2011 SPS Signal Processing Magazine Best Column Award** , for Messer, H: "Rainfall Monitoring Using Cellular Networks" [In the Spotlight], IEEE SIGNAL PROCESSING MAGAZINE, Vol. 24, No. 3, May 2007
- **Panelist, United Nations commission on the status of women**, 55 session, Feb. 2011
- **WIPO (World Intellectual Property Organization) Medal**, 2009, "for the best invention to predict floods using cellular networks" (with N. David and P. Alpert).
- IEEE GRSL **Best Reviewer Recognition for 2009**
- **General co-Chair**, IEEE SAM-2010, IEEE HOS-1999 Workshops
- **Member of the Editorial Board**, Overview Articles in IEEE Signal Processing Transactions (2009-2012)
- **Member of the Editorial Board**, IEEE JSSP (2006-2010)
- **Fellow of the IEEE (2001):** *for contributions to statistical signal processing, time delay estimation and sensor array processing.*
- **Associate Editor**, IEEE Signal Processing Letters (1996-9)
- **Associate Editor**, IEEE Trans. On Signal Processing (1994-6)
- **Member**, IEEE Signal Processing Society Tech. Committees (SPTM, SAM) 1994-2010
- **Best Teacher Award**, Faculty of Engineering (1997)
- **Plenary/keynotes talks in international conferences:** SPAWC2007, SAM2008, SAM2012, EUCON2013, CEST2017, COMCAS2018, AICT2019, ICASSP2020, ICAS2021, CEST2023 (partial list)

Recent Grants and Contracts

From	To	Title of Project	Source ¹
2023	2024	Fault detection in wireless networks*	Magnetron (IIA)
2021	2025	Opportunistic precipitation sensing network* (CA20136)	COST Action (EC)
2021	2023	Extract Rainfall Data from Satellite Communication*	Magnetron (IIA)
2019	2022	Improving Wireless Networks Robustness via Weather-Sensitive Predictive Management.	BSF-NSF
2018	2020	Opportunistic Sensing of Fog and other Environmental Phenomena	Kamin (IIA)
2014	2019	Integrating Microwave Link Data for Analysis of Precipitation... (IMAP)*	DFG (Germany)
2013	2020	Fog Monitoring*	MoD
2011	2015	Improving Rainfall Estimation using Radar & microwave link technologies*	BSF
2009	2012	PROCEAMA*	BMBF (Germany)
2008	2010	Environmental sensor networks using existing wireless communication	ISF

Patents

- Messer-Yaron, Hagit, et al. "Monitoring and Mapping of Atmospheric Phenomena." U.S. Patent Application No. 11/995,535.
- David, Noam, et al. "Methos, system and computer program product for generating a two dimensional fog map from cellular communication network information." U.S. Patent Application No. 15/925,798.
- Ostrometzky, Jonathan, and Hagit Messer-Yaron. "Relating rain intensity and dynamic range in commercial microwave links." U.S. Patent No. 11,204,443. 21 Dec. 2021
- David Noam, Alpert P, Messer-Yaron Hagit, SYSTEM AND METHOD FOR IDENTIFYING A HYDROMETEOR, US provisionall patent applicationn no. 61/602,156

¹ * indicates joint research with other PIs

- David, N., Gao, H.O., Messer, H., and Alpert, P.: Using commercial microwave links to detect atmospheric temperature inversions, air pollution and fog. Provisional patent application, filed by Cornell IP office, August 2017.
- J. Ostrometzky, G. Zussmann, H. Messer Yaron, D. Jacoby : "Predictive Communication Network Management Based on Weather", Provisional patent application, filed by Columbia University.
- J. Tabrikian, S. Caspi, H. Messer, "Blind array calibration of one or more of mutual coupling, phase, and gain, for automotive radar", submitted Aug. 2023, United States Provisional Patent Application No. 63/535,894

Ph.D Students

Dr. Moti Frisch (awarded in 1992)

Dr. Joseph Tabrikian (awarded in 1996) – **Professor at BGU**

Dr. Nadav Bezer (awarded in 2001) – jointly with D. Mudoser

Dr. Eran Fishler (awarded in 2001)

Dr. Jonathan Friedmann (awarded in 2002)

Dr. Itsik Bergel (awarded in 2005) – **Associate Prof. at BIU**

Dr. David Primor (awarded in 2007) – jointly with G. Mikenberg

Dr. Lev Smolyar (awarded in 2009)

Dr. Artem Zinevich (awarded in 2010) – jointly with P. Alpert

Dr. Yair Noam (awarded in 2011) – **Associate Prof. at BIU**

Dr. Dana Lahat (awarded in 2013) – jointly with JF Cardoso

Dr. Nir Nossenson (awarded in 2014)

Dr. Noam David (awarded in 2014) – jointly with P. Alpert

Dr. Jonatan Ostrometzky (awarded 2017) – **Senior Lecturer at TAU**

Dr. Adam Eshel (awarded 2023)

Also, supervised more than 80 M.Sc. research students.

Current/recent public service:

2023- **Member, IEEE Global Public Policy Committee (GPPC)**

2023- **Member, IEEE Conduct Review Committee (CRC)**

2022- **Member, BoD, Israel Oceanographic and Limnological Research (IOLR)**

2022 Member, IEEE SPS ad-hoc Ethics Committee

2020- **Member, BoD, RAMOT's (and TAU Ventures)**

2020-22 Member, IEEE Ethics and Member Conduct Committee (EMCC)

2017- **Member, the Directors Team, the Government Companies Authority**

2017- **Chair, BASHAAR - Academic Community for Israeli Society**

2017-22 Member, Executive Committee, IEEE Global AIS Ethics

2016-23 Member, COMEST – Ethics in Science and Technology, UNESCO

2007- **Member, BoG, the Center for Educational Technology (CET), Israel**

LIST OF PUBLICATIONS: HAGIT MESSER-YARON

Journal papers

Intensity Estimation After Detection for Accumulated Rainfall Estimation

Taeer Weiss, Tirza Routtenberg, Jonatan Ostrometzky and HAGIT MESSER
Frontiers in Signal Processing-Radar Signal Processing, 2024.

On the Potential of Using Emerging Microwave Links for City Rainfall Monitoring

Congzheng Han; Gaoyuan Zhang; Baofeng Ji; Juan Huo; Hagit Messer
IEEE Communication Magazine: 2023, Page(s):174 - 180

Blind Array Calibration of Mutual Coupling, Phase, and Gain, for Automotive Radar

J. Tabrikian, S. Caspi, H. Messer
IEEE Transactions on Aerospace and Electronic Systems, 2023

A statistical approach to retrieve rainfall intensity by attenuation measurements from commercial microwave links

X Zheng, H Messer, Y Qin, Y Song, W Zhang, T Yang
Earth's Future 11 (11), 2023

Opportunistic ISAC for Weather in the IoT Era

H Messer, J Ostrometzky
IEEE newsletter ISAC-Focus, Issue VI, 2023

In-City Rain Mapping from Commercial Microwave Links—Challenges and Opportunities

R Janco, J Ostrometzky, H Messer
Sensors 2023 (10), 4653

Learning to Bound: A Generative Cram'ér-Rao Bound

Habi, Hai Victor, Hagit Messer, and Yoram Bresler
IEEE Transactions on Signal Processing, 2023

Stand-Alone, Affordable IoT Satellite Terminals and Their Opportunistic Use for Rain Monitoring

J Ostrometzky, G Rafalovich, B Kagan, H Messer
(2022) IEEE Internet of Things Magazine 5 (4), 100-105

Switching in the Rain: Predictive Wireless x-haul Network Reconfiguration

Kadota, I., Jacoby, D., Messer, H., Zussman, G. and Ostrometzky, J.
(2022) Proc. ACM Meas. Anal. Comput. Syst. 6, 3, Article 55 (December 2021), 26 pages. <https://doi.org/10.1145/3570616>

Empirical Study on the Effect of Birds on Commercial Microwave Links

Ben Moshe, D, Messer, H., Nathan, R. and Sapir, N.,
IEEE Access. 2022, 10, pp.103819-103826.

Rain field retrieval by ground-level sensors of various types

MESSER, H., Eshel, A., Habi, H.V., Sagiv, S. and Zheng, X.,
Frontiers in Signal Processing, p.47, June 2022, **2022 Outstanding Article award within Frontiers in Signal Processing**

On the potential of commercial microwave link networks for high spatial resolution rainfall monitoring in urban areas

Xin Zheng, Hagit Messer, Qian Wang, Tao Xu, Youwei Qin, Tao Yang
Atmospheric Research. 2022 Jun 9

Estimating the Parameters of the Spatial Autocorrelation of Rainfall Fields by Measurements From Commercial Microwave Links

Eshel, Adam, Pinhas Alpert, and Hagit Messer
IEEE Transactions on Geoscience and Remote Sensing 60 (2022): 1-11.

Water Vapor Density Retrieval Studies Using Commercial Millimeter-wave Links at 38 GHz and E-band

Congzheng Han, Guiyang Su, Lei Bao, and Hagit Messer
Remote Sensing 14.4 (2022): 946.

Total Performance Evaluation of Intensity Estimation after Detection

T Weiss, T Routtenberg, H Messer
Signal Processing, Volume 183, June 2021, 108042

Quantitative Analysis of the Performance of Spatial Interpolation Methods for Rainfall Estimation Using Commercial Microwave Links

A Eshel, H Messer, H Kunstmann, P Alpert, C Chwala
Journal of Hydrometeorology, 2021

Recurrent Neural Network for Rain Estimation Using Commercial Microwave Links

H. V. Habi and H. Messer
IEEE Transactions on Geoscience and Remote Sensing, 2020

On the Information in Extreme Measurements for Parameter Estimation

Ostrometzky, Jonatan, and Hagit Messer
Journal of the Franklin Institute 357 (1), 748-771, 2020

Spatial Reconstruction of Rain Fields from Wireless Telecommunication Networks - Scenario Dependent Analysis of IDW-Based Algorithms

A Eshel, J Ostrometzky, S Gat, P Alpert and H. Messer
IEEE Geoscience and Remote Sensing Letters, vol. 17, no. 5, pp. 770-774, 2020

Analyzing the ability to reconstruct the moisture field using commercial microwave network data

N David, O Sendik, Y Rubin, H Messer, HO Gao, D Rostkier-Edelstein,
Atmospheric Research 219, 213-222, 2019

Advancements in the Statistical Study, Modeling, and Simulation of Microwave-Links in Cellular Backhaul Networks

L Gazit and H Messer
Environments 2018, 5(7), 75

Vertical Precipitation Estimation Using Microwave Links in Conjunction with Weather Radar

R Raich, P Alpert and H Messer
Environments 2018, 5(7), 74

Capitalizing on Cellular Technology—Opportunities and Challenges for Near Ground Weather Monitoring

H Messer
Environments 2018, 5(7), 73

Sufficient Conditions for Reconstructing 2-D Rainfall Maps

Gazit, L. and Hagit Messer
IEEE Trans. On Geoscience and Remote Sensing, 2018

On the potential for reconstructing the moisture field using commercial microwave network data

N David, O Sendik, H Messer, HO Gao, Y Rubin, D Rostkier-Edelstein, ...
arXiv preprint arXiv:1806.00833

The Wet-Antenna Effect – a Factor to be Considered in Future Communication Networks

Ostrometzky, J., Raich R., Bao, L., Hansryd, J., & Messer H.
IEEE Transactions on Antennas and Propagation, 66, no. 1 (2018): 315-322.

Dynamic Determination of the Baseline Level in Microwave Links for Rain Monitoring From Minimum Attenuation Values

J Ostrometzky, H Messer
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 11, no. 1 (2018): 24-33

Comparison of Different Methodologies of Parameter-Estimation From Extreme Values

Ostrometzky, Jonatan, and Hagit Messer
IEEE Signal Processing Letters 24.9 (2017): 1293-1297.

Robust Spectrum Management with Incomplete Information over Fading Channels

Y Noam, A Leshem, H Messer
Journal of the Franklin Institute, 354(2), pp.1066-1086, 2016

Meteorology: Mobile networks aid weather monitoring

P Alpert, H Messer, N David
Nature 537 (7622), 617-617, 2016

Parameter estimation from heterogeneous/multimodal data sets

Fijalkow, Inbar, Elad Heiman, and Hagit Messer
IEEE Signal Processing Letters 23 (3), 390-393, 2016

Detection of Stimuli from Multi-Neuron Activity: Empirical Study and Theoretical Implications

N Nossenson, A Magal, H Messer
Neurocomputing 174, 822-837, 2016

Optimal Cognitive Beamforming for Target Tracking in MIMO Radar/Sonar

Nathan Sharaga, J. Tabrikian and H. Messer
Selected Topics in Signal Processing, IEEE Journal of 9 (8), 1440-1450, 2015

The potential of microwave communication networks to detect dew using the GLRT- experimental study,

Harel., O, David, N., Alpert, P. and Messer, H.,

Selected Topics in Applied Earth Observations and Remote Sensing, IEEE Journal of 8.9 (2015): 4396-4404.

Improving Rainfall Measurement in gauge poor regions thanks to mobile telecommunication networks

Gosset, Marielle, Harald Kunstmann, François Zougmore, Frederic Cazenave, Hidde Leijnse, Remko Uijlenhoet, Christian Chwala, Felix Keis, Ali Doumounia, Barry Boubakar, Modeste Kacou, Pinhas Alpert, **Hagit Messer**, Jörg Rieckermann, Joost Hoedjes

Bulletin of the American Meteorological Society 2015 (2015).

A New Approach to Precipitation Monitoring

H Messer, O Sendik

IEEE SIGNAL PROCESSING MAGAZINE 32 (3), 110-122, May 2015

Accumulated Mixed Precipitation Estimation Using Measurements From Multiple Microwave Links

Ostrometzky, Jonatan, Dani Cherkassky, and Hagit Messer

Advances in Meteorology, 2015, 1

Cellular network infrastructure-the future of fog monitoring?

N. David, O. Sendik, H. Messer. P. Alpert

Bulletin of the American Meteorological Society 96 (10), 1687-1698, 2015

New algorithm for integration between wireless microwave sensor network and radar for improved rainfall measurement and mapping

Y. Liberman, R. Samuels, P. Alpert, and H. Messer

Atmospheric Measurement Techniques 7.10 (2014): 3549-3563

Blind Separation of Multidimensional Components via Subspace Decomposition: Performance Analysis

D. Lahat, JF Cardoso and H. Messer

IEEE Transactions on Signal Processing, Volume: 62, [Issue: 11](#), June 2014

Precipitation Classification Using Measurements from Commercial Microwave Links

Cherkassky, D. Ostrometzky J. and Messer H:

IEEE Transactions on Geoscience and Remote Sensing, Volume: 52, [Issue: 5](#), May 2014

The potential of commercial microwave networks to monitor dense fog-feasibility study

N David, P Alpert, H Messer

Journal of Geophysical Research: Atmospheres 118 (20), 11,750-11,761, Oct. 2013

Extension of the MFLRT to Detect an Unknown Deterministic Signal Using Multiple Sensors, Applied for Precipitation Detection

O Harel, H Messer

Signal Processing Letters, IEEE, Volume:20, Issue: 10, Oct. 2013

ADAPTIVE STATISTICAL LEARNING OF CELLULAR USERS BEHAVIOR

Y Broyde, M Livshitz, H Messer

Signal Processing, Volume 93, Issue 11, Pages 3151–3158, November 2013

The potential of cellular network infrastructures for sudden rainfall monitoring in dry climate regions

David, N; Alpert, P; Messer, H:

Atmospheric Research Volume 131, Pages 13–21, September 2013

Second-Order Multidimensional ICA: Performance Analysis

Dana Lahat, Jean-François Cardoso and Hagit Messer

IEEE TRANSACTIONS ON SIGNAL PROCESSING Volume: 60 Issue: 9 pp 4598-4610, SEP 2012

Environmental sensor networks using existing wireless communication systems for rainfall and wind velocity measurements

Messer, H.; Zinevich, A.; Alpert, P.

Instrumentation & Measurement Magazine, IEEE, Volume: 15, Issue: 2, pp 32 – 38, April 2012

Optimal Sequential Detection of Stimuli from Multiunit Recordings Taken in Densely Populated Brain Regions

Nir Nossenson, Hagit Messer

Neural Computation, April 2012, Vol. 24, No. 4, Pages 895-938

The Use of Linear Feature Projection for Precipitation Classification Using Measurements from Commercial Microwave Links

Dani Cherkassky, Jonatan Ostrometzky and Hagit Messer

in *Latent Variable Analysis and Signal Separation*, Lecture Notes in Computer Science, 2012, Volume 7191/2012, pp 511-519

Joint Block Diagonalization Algorithms for Optimal Separation of Multidimensional Components

Dana Lahat, Jean-François Cardoso and Hagit Messer

in *Latent Variable Analysis and Signal Separation*, Lecture Notes in Computer Science, 2012, Volume 7191/2012, pp 155-162

Humidity Measurements using Commercial Microwave Links

David, N; Alpert, P; Messer, H;
In *Advanced Trends in Wireless Communications*, Editor: Mutamed Khatib. *InTech*, February 2011

Competitive Spectrum Management with Incomplete Information

Noam, Y.; Leshem, A.; Messer, H.;
IEEE Transactions on Signal Processing, Dec. 2010

Prediction of rainfall intensity measurement errors using commercial microwave communication links

Zinevich, A; Messer, H; Alpert, P
Atmospheric Measurement Techniques Atmos. Meas. Tech., 3, Pages: 1385-1402, 2010

Optimal Performance of Second-Order Multidimensional ICA

D. Lahat, J-F Cardoso and H. Messer
Independent Component Analysis and Signal Separation Lecture Notes in Computer Science, Volume 5441/2009, P. 50-57, 2009.

Unified Approach to Joint Power Allocation and Base Assignment in Nonorthogonal Networks

Smolyar, L; Bergel, I; Messer, H
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY Volume: 58 Issue: 8 Pages: 4576-4586, 2009

Frontal Rainfall Observation by a Commercial Microwave Communication Network

Zinevich, A; Messer, H; Alpert, P
JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY Volume: 48 Issue: 7 Pages: 1317-1334, 2009

Notes on the Tightness of the Hybrid Cramer-Rao Lower Bound

Noam, Y; Messer, H
IEEE TRANSACTIONS ON SIGNAL PROCESSING Volume: 57 Issue: 6 Pages: 2074-2084, 2009

Technical Note: Novel method for water vapour monitoring using wireless communication networks measurements

David, N; Alpert, P; Messer, H
ATMOSPHERIC CHEMISTRY AND PHYSICS Volume: 9 Issue: 7 Pages: 2413-2418, 2009

Rain Rate Estimation Using Measurements From Commercial Telecommunications Links

Goldshstein, O; Messer, H; Zinevich, A
IEEE TRANSACTIONS ON SIGNAL PROCESSING Volume: 57 Issue: 4 Pages: 1616-1625, 2009

Estimation of rainfall fields using commercial microwave communication networks of variable density

Zinevich, A; Alpert, P; Messer, H
ADVANCES IN WATER RESOURCES Volume: 31 Issue: 11 Pages: 1470-1480, 2008

Optimization of CDMA Systems with Respect to Transmission Probability, Part II: Signal to Noise Plus Interference Ratio Optimization

Bergel, I.; Messer, H.;
Wireless Communications, IEEE Transactions on, Volume 7, Issue 6, June 2008 Page(s):2084 - 2093

Optimization of CDMA Systems with Respect to Transmission Probability, Part I: Mutual Information Rate Optimization

Bergel, I.; Messer, H.;
Wireless Communications, IEEE Transactions on, Volume 7, Issue 6, June 2008 Page(s):2075 – 2083

Iterative Track Fitting Using Cluster Classification in Multi Wire Proportional Chamber

Primor, D.; Mikenberg, G.; Etzion, E.; Messer, H.;
Nuclear Science, IEEE Transactions on, Volume 54, Issue 5, Part 2, Oct. 2007 Page(s):1758 - 1766

Muon Detection in the ATLAS CSC Detector

Primor, D.; Mikenberg, G.; Messer, H.;
Nuclear Science, IEEE Transactions on, Volume 54, Issue 3, Part 2, June 2007 Page(s):635 - 642

Rainfall Monitoring Using Cellular Networks

Messer, H.;
Signal Processing Magazine, IEEE, Volume 24, Issue 3, 2007 Page(s):144 – 142
*** 2011 SPS Signal Processing Magazine Best Column Award**

A novel approach to track finding in a drift tube chamber

Primor, D., Kortner, O., Mikenberg, G., and Messer, H. .
Journal of Instrumentation (JINST), P01009, 30/1/2007

Multi-user sum-rate capacity for ultra-wideband radio

Smolyar, L.; Bergel, I.; Messer, H.;
Wireless Communications, IEEE Transactions on, Volume 5, Issue 7, July 2006 Page(s):1818 – 1826

Environmental monitoring by wireless communication networks

Messer, H; Zinevich, A; Alpert, P

SCIENCE, 312 (5774): 713-713 MAY 5 2006

SNR Estimation in time-varying Fading Channels,

Wiesel, A, J. Goldberg and H. Messer-Yaron,
IEEE Trans. on Communications, Vol. 54, Issue 5, pages 841-848, May 2006.

Narrowband Interference Mitigation in Impulse Radio

Bergel, I.; Fishler, E.; Messer, H.;
Communications, IEEE Transactions on
Volume 53, Issue 8, Aug. 2005 Page(s):1278 – 1282

Determining the Number of Discrete Alphabet Sources from Sensor Data,

Fishler, E; Grosman, M; Messer, H;
EURASIP Journal on Applied Signal Processing 2005:1,4–12, JAN 2005.

Training-based time-delay estimation for CPM signals over time-selective fading channels

Dabora, R.; Goldberg, J.; Messer, H.;
Communications, IEEE Transactions on, Volume 52, Issue 7, July 2004 Page(s):1169 – 1177

Bearing estimation for a distributed source of nonconstant modulus bounds and analysis

Friedmann, J.; Raich, R.; Goldberg, J.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 51, Issue 12, Dec. 2003 Page(s):3027 – 3035

General asymptotic analysis of the generalized likelihood ratio test for a Gaussian point source under statistical or spatial mismodeling

Friedmann, J.; Fishler, E.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 50, Issue 11, Nov. 2002 Page(s):2617 – 2631

Inherent limitations in data-aided time synchronization of continuous phase-modulation signals over time-selective fading channels

Dabora, R.; Goldberg, J.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 50, Issue 6, June 2002 Page(s):1470 – 1482

Consistent CFAR detection of a linear signal based on partially consistent observations

Friedmann, J.; Messer, H.;
Signal Processing Letters, IEEE, Volume 9, Issue 8, Aug. 2002 Page(s):237 – 240

Detection of signals by information theoretic criteria: general asymptotic performance analysis

Fishler, E.; Grosman, M.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 50, Issue 5, May 2002 Page(s):1027 - 1036

Bearing estimation in a Ricean channel .I. Inherent accuracy limitations

Fuks, G.; Goldberg, J.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 49, Issue 5, May 2001 Page(s):925 – 937

Underwater source detection using a spatial stationarity test

Ephraty, A; Tabrikian, J; Messer, H;
JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, 109 (3): 1053-1063, MAR 2001.

Robust mixed-order root-MUSIC

Gershman, AB; Messer, H;
CIRCUITS SYSTEMS AND SIGNAL PROCESSING, 19 (5): 451-466 2000.

On the use of order statistics for improved detection of signals by the MDL criterion

Fishler, E.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 48, Issue 8, Aug. 2000 Page(s):2242 – 2247

Source localization in shallow water in the presence of sensor location uncertainty

Jakoby, A.; Goldberg, J.; Messer, H.;
Oceanic Engineering, IEEE Journal of, Volume 25, Issue 3, July 2000 Page(s):331 – 336

Bearing estimation for a distributed source: modeling, inherent accuracy limitations and algorithms

Raich, R.; Goldberg, J.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 48, Issue 2, Feb. 2000 Page(s):429 – 441

Detection and parameter estimation of a transient signal using order statistics

Fishler, E.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 48, Issue 5, May 2000 Page(s):1455 – 1458

Robust parameter estimation of a deterministic signal in impulsive noise

Friedmann, J.; Messer, H.; Cardoso, J.-F.;
Signal Processing, IEEE Transactions on Volume 48, Issue 4, April 2000 Page(s):935 – 942

Detection of environmental mismatch in a shallow water waveguide

Tabrikian, J.; Fostick, G.S.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 47, Issue 8, Aug. 1999 Page(s):2181 - 2190

Order statistics approach for determining the number of sources using an array of sensors

Fishler, E.; Messer, H.;
Signal Processing Letters, IEEE, Volume 6, Issue 7, July 1999 Page(s):179 - 182

Almost efficient estimation of the parameters of a stable distribution using order statistics

Maymon S; Friedmann J; Messer H :
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS 1999, Vol 53, Iss 6, pp 355-363

Performance of linear MMSE multiuser detection combined with a standard IS-95 uplink

Zaidel BM; Shitz SS; Messer H
WIRELESS NETWORKS 1998, Vol 4, Iss 6, pp 429-445.

Passive time delay estimation in non-Gaussian noise

Messer, H.; Shor, G.; Schultheiss, P.M.;
Signal Processing, IEEE Transactions on Volume 47, Issue 9, Sept. 1999 Page(s):2531 - 2534

On the effect of nuisance parameters on the threshold SNR value of the Barankin bound

Reuven, I.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 47, Issue 2, Feb. 1999 Page(s):523 - 527

Lower bound on the achievable DSP performance for localizing step-like continuous signals in noise

Bartov, A.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 46, Issue 8, Aug. 1998 Page(s):2195 - 2201
Also in: **Bayesian Bounds for Parameter Estimation and Nonlinear Filtering/Tracking**, Harry L. Van Trees (Editor), Kristine L. Bell (Editor), ISBN: 978-0-470-12095-8, Wiley-IEEE Press

Highlights of statistical signal and array processing

Hero, A.; Messer, H.; Goldberg, J.; Thomson, D.J.; Amin, M.G.; Giannakis, G.; Swami, A.; Tugnait, J.K.; Nehorai, A.; Swindlehurst, A.L.; Cardoso, J.-F.; Lang Tong; Krolik, J.;
Signal Processing Magazine, IEEE, Volume 15, Issue 5, Sept. 1998 Page(s):21 - 64

Extracting information from noisy measurements of periodic signals propagating through random media

Furst, M.; Messer, H.; Shaaya-Segal, I.;
Signal Processing, IEEE Transactions on Volume 46, Issue 7, July 1998 Page(s):2047 - 2053

Inherent limitations in the localization of a coherently scattered source

Goldberg, J.; Messer, H.;
Signal Processing, IEEE Transactions on Volume 46, Issue 12, Dec. 1998 Page(s):3441 - 3444

Maximum likelihood time delay estimation in non-Gaussian noise

Schultheiss, P.M.; Messer, H.; Shor, G.;
Signal Processing, IEEE Transactions on Volume 45, Issue 10, Oct. 1997 Page(s):2571 - 2575

A Barankin-type lower bound on the estimation error of a hybrid parameter vector

Reuven, I.; Messer, H.;
Information Theory, IEEE Transactions on, Volume 43, Issue 3, May 1997 Page(s):1084 - 1093
Also in: **Bayesian Bounds for Parameter Estimation and Nonlinear Filtering/Tracking**, Harry L. Van Trees (Editor), Kristine L. Bell (Editor), ISBN: 978-0-470-12095-8, Wiley-IEEE Press

Robust maximum-likelihood source localization in an uncertain shallow-water waveguide,

Tabrikian J; Krolik JL; Messer H
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