

Publication list of Dr. Fereidoon Behnia

Selected journal papers

- 1 Mohammad Reza Shamsian, Mohammad Sadeghi, Fereidoon Behnia, "Joint TDOA and DOA Single Site Localization in NLOS Environment Using Virtual Stations", IEEE Transactions on Instrumentation & Measurement, Accepted
- 2 E. Alamdari¹, F. Behnia¹, R. Amiri, "Conical Localization from Angle Measurements: An Approximate Convex Solution", IEEE sensors letters, Volume: 6, Issue: 5, 2022
- 3 Mohammad Sadeghi, Fereidoon Behnia, and Rouhollah Amiri, "Optimal Geometry Analysis for Elliptic Localization in Multistatic Radars with Two Transmitters", IEEE Transactions on Aerospace and Electronic Systems, volume 58, issue 1, 2022
- 4 Ghasem Sobhani, Amir Mansour Pezeshk, Fereidoon Behnia, and Mohammad Sadeghi, "Joint Detection of Carrier Frequency and Direction of Arrival of Wideband Signals using Bandpass Sampling and Interferometric Direction Finding", AEUE - International Journal of Electronics and Communications, volume 139, sept. 2021
- 5 Seyed Amir Reza Kazemi, Rouhollah Amiri, and Fereidoon Behnia, "Data Association for Multi-Target Elliptic Localization in Distributed MIMO Radars", IEEE communication letters, volume 25, issue 9, 2021
- 6 Seyed Amir Reza Kazemi, Rouhollah Amiri, and Fereidoon Behnia, "Efficient Closed-Form Solution for 3-D Hybrid Localization in Multistatic Radars", IEEE Transactions on Aerospace and Electronic Systems, volume 58, issue 6, 2021
- 7 Mohammad Sadeghi, Fereidoon Behnia, and Rouhollah Amiri, "Maritime Target Localization from Bistatic Range Measurements in Space-Based Passive Radar", IEEE Transactions on Instrumentation and Measurement, volume 70
- 8 Mohammad Sadeghi, Fereidoon Behnia, Rouhollah Amiri, "Optimal Geometry Analysis for TDOA-based Localization Under Communication Constraints", IEEE Transactions on Aerospace and Electronic Systems, vol. 69, pp 1642-1652, 2021
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- 11 Seyed Amir Reza Kazemi, Rouhollah Amiri, and Fereidoon Behnia, "An Approximate ML Estimator for Moving Target Localization in Distributed MIMO Radars", IEEE signal processing letters, vol. 27, pp 1595:1599, Aug. 2020
- 12 Seyed Amir Reza Kazemi, Rouhollah Amiri and Fereidoon Behnia, "Efficient Joint Localization and Synchronization in Distributed MIMO Radars", IEEE signal processing letters, vol. 27, pp 1200-1204, June 2020
- 13 Mohammad Sadeghi, Fereidoon Behnia, and Rouhollah Amiri, "Optimal Sensor Placement for 2-D Range-only Target Localization in Constrained Sensor Geometry", IEEE Trans. Signal processing, vol. 68, pp: 2316 – 2327, April 2020
- 14 Mohammad Sadeghi, Fereidoon Behnia, and Rouhollah Amiri, "Window Selection of the Savitzky-Golay Filters for Signal Recovery from Noisy Measurements", IEEE Transactions on Instrumentation and

Measurement, Volume: 69 , Issue: 8 , Aug. 2020, pp: 5418 – 5427

- 15 M. R. Danaee and F. Behnia, "Improved Least Squares Approaches for Differential Received Signal Strength-Based Localization with Unknown Transmit Power", *Springer Wireless Personal Communications* (2020): pp: 1373–1401
- 16 Amir Reza Kazemi, Rouhollah Amiri, and Fereidoon Behnia, "Efficient Convex Solution for 3-D Localization in MIMO Radars Using Delay and Angle Measurements", *IEEE Communication Letters*, Volume: 23 , Issue: 12, pp 2219 – 2223, Dec. 2019
- 17 Rouhollah Amiri, Fereidoon Behnia and Ali Noroozi, "Efficient Algebraic Solution for Elliptic Target Localization and Antenna Position Refinement in MIMO Radars", *IET RSN*, vol.13,issue 11, pp 2046-2054, 2019
- 18 Mohammad Hamdollahzadeh, Rouhollah Amiri, and Fereidoon Behnia, "Moving Target Localization in Bistatic Forward Scatter Radars: Performance Study and Efficient Estimators", *IEEE Transactions on Aerospace and Electronic Systems* , Volume: 56, Issue: 2, April 2020, pp 1582 – 1594, 2020
- 19 Rouhollah Amiri, Amir Reza Kazemi, and Fereidoon Behnia, "Efficient Elliptic Localization in the Presence of Antenna Position Uncertainties and Clock Parameter Imperfections", *IEEE Trans. Vehicular Technology*, Volume: 68, Issue: 10, pp 9797– 9805, 2019
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- 21 Rouhollah Amiri, Fereidoon Behnia, Hojatollah Zamani, "Closed-Form Positioning in MIMO Radars with Antenna Location Uncertainties", *IET RSN*, vol.13,issue 9, pp 1568- 1579, 2019
- 22 Mohammad Hamdollahzadeh, Rouhollah Amiri, and Fereidoon Behnia, "Optimal Sensor Placement for Multi Source AOA Localization with Distance-dependent Noise Model", *IET Radar Sonar Navig.* Vol. 13 Issue. 6, pp. 881-891, 2019
- 23 Mohammad Sadeghi, Fereidoon Behnia, Hamed Haghshenas, "Positioning of geostationary satellite by Radio Interferometry", *IEEE Transactions on Aerospace and Electronic Systems*, Vol.: 55 , Issue: 2 pp: 903 – 917, 2019
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- 26 Ali Gharamohammadi ; Fereidoon Behnia ; Rouhollah Amiri, "Imaging Based on Correlation Function for Buried Objects Identification" ,*IEEE Sensors Journal*,, Volume: 18 , Issue: 18,Page s: 7407 – 7413, 2018
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- 29 Hamdollahzadeh, Adelipour, Behnia, "Sequential Sensor Placement In Two-Dimensional Passive Source Localization Using TDOA Measurements", *IET Signal processing*, Vol.12, Issue 8, 2018, pp 310-319
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- 31 Rouhollah Amiri; Fereidoon Behnia; Hojatollah Zamani, "Efficient 3-D Positioning Using Time-Delay and AOA Measurements in MIMO Radar Systems", *IEEE Communications Letters*, Vol.: 21, Issue: 12, 2017, pp: 2614 - 2617
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- Squares Estimation”, IEEE communication letters, vol. 21, issue 10, 2017
- 33 Rouhollah Amiri and Fereidoon Behnia,” An Efficient Weighted Least Squares estimator for Elliptic Localization in Distributed MIMO Radars”, IEEE signal processing letters, vol. 24, issue 6, 2017
 - 34 Rouhollah Amiri, Fereidoon Behnia, and Mohammad Amin Maleki Sadr,”Efficient Positioning in MIMO Radars with Widely Separated Antennas”, IEEE communication letters, vol.21, issue 7,pp 1569-1572, March 2017
 - 35 M. R. Danaee, F. Behnia,” Unscented Auxiliary Particle Filter Implementation of the Cardinalized Probability Hypothesis Density Filters” Amirkabir International Journal of science and research Electrical and Electronics Engineering, accepted, available online since Nov. 12, 2017
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 - 37 Mohammad Hamdollahzadeh,Sadjad Adelipour,Fereidoon Behnia,”Recursive Sensor Placement in Two Dimensional TDOA Based Localization” ,ICEE 2016, May 2016, Shiraz, Iran
 - 38 Mehdi Boloursaz Mashhadi, F. Behnia,” On Efficient Codebook Design for Digital Communication through Compressed Voice Channels”, IET Communications, 2016, Volume: 10, Issue: 18, Pages: 2613 – 2620, Dec. 2016
 - 39 Reza Kazemi_, Fernando P´erez-Gonz´alez, Mohammad Ali Akhaeey and Fereydoon Behnia,” Data hiding robust to mobile communication vocoders, IEEE Transactions on Multimedia, Volume: 18, No.12,December 2016,Pages: 2345 - 2357
 - 40 Rouhollah Amiri, Hojatollah Zamani, Fereidoon Behnia and Farrokh Marvasti, ”sparsity aware target localization using TDOA/AOA measurements in distributed MIMO Radars”, ICT express, January 2016
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 - 49 Reza Kazemi, M. Rasouli and F. Behnia, "Spectral Estimation Based on Kalman Filtering with Reduced Computational order", Springer Circuits, Systems, and Signal Processing (CSSP).10 May 2012 published online
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- 2 Ali Gharamohammadi, Fereidoon Behnia, and Arash Shokouhmand, "Imaging Based on a Fast Back-Projection Algorithm Considering Antenna Beamwidth", 2019 6th Iranian Conference on Radar and Surveillance Systems, Isfahan, Iran
- 3 Mohammad Solhi , Mohammad Hamdollahzadeh, and Fereidoon Behnia, "Sensor placement in AOA localization of multiple sources in the presence of distance dependent noise, ICEE 2019
- 4 Sayed Mohammad Solhi Juybari, Fereidoon Behnia, "Optimal sensor placement for source localization in NLOS conditions", ICEE 2018, Mashad, Iran
- 5 Abbas Abolfathi Momtaz, Fereidoon Behnia, Farokh Marvasti, "Multi-GNSS Constellation Fusion Based on Statistical Features of Positioning Error", ICEE 2018, Mashad, Iran
- 6 Salman Hassanpour; Amir Mansour Pezeshk; Fereidoon Behnia, "Automatic Digital Modulation Recognition Based on Novel Features and Support Vector Machine" 2016 12th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS), Naples, Italy, 28 Nov. 2016
- 7 Mohammad Hamdollahzadeh, Sadjad Adelipour, Fereidoon Behnia, "Recursive Sensor Placement in Two Dimensional TDOA Based Localization", ICEE 2016, May 2016, Shiraz, Iran
- 8 Hojatollah Zamani, Rouhollah Amiri and Fereidoon Behnia, "Compressive Sensing for Elliptic Localization in MIMO Radars", 10-12 May, ICEE 2016, Shiraz, Iran
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- 12 Mohammad J. Ahmadi, Rouhollah Amiri and Fereidoon Behnia, "Localization in MISO Airborne Passive Radar through Heavy Ground", EWDTs 15, Batumi, Georgia, sept. 29, 2015
- 13 Salman Hassanpour, Amir Mansour Pezeshk, and Fereidoon Behnia, "A Robust Algorithm Based on Wavelet Transform for Recognition of Binary Digital Modulation", TSP2015, Check Slovakia, TSP 2015, Pages: 508 - 512
- 14 Mohammad J. Ahmadi, Rouhollah Amiri, Fereidoon Behnia, "mitigation of range and velocity walk in

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- 15 Mehdi Boloursaz, Reza Kazemi, B. Barazandeh, F. Behnia, ” Bounds on Compressed Voice Channel Capacity”, IWCIT 2014, Iran, May
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 - 18 M. R. Danaei, F. Behnia, ” Enhanced Strategy to Sample Newborn Targets within Nonthresholded Measurements”, ICEE 2013, May 14-16, 2013, Mashad, Iran
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 - 20 M. Boloursaz , A. H. Hadavi, R. Kazemi and F. Behnia “secure data communication through GSM Adaptive multi rate voice channel’, IST2012, Tehran, Iran
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 - 23 R. Kazemi, D. Nashtaali, M. Boloursaz and F. Behnia, ”secure data over GSM based on algebraic codebooks,” IEEE EDWTS2012, Kharkov, Ukraine
 - 24 Kamal Shadi, F. Behnia, "transmit beam pattern synthesis using eigen value decomposition in MIMO radar", ICICS 2011, 13-16 December 2011, Singapore
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Selected Journal papers in Farsi

۱	صابر کاویانی، فریدون بهنیا " استخراج تفاضل زمانی و فرکانسی میان دو سیگنال دریافتی از یک منبع " مجله علمی پژوهشی علوم و فناوری های نوین دفاعی " پذیرفته شده
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۳	صابر کاویانی، فریدون بهنیا " مکانیابی سه بعدی اهداف هوایی فعال با استفاده از یک ایستگاه گیرنده سطحی "، فصلنامه علمی علوم و فناوری های پدافند نوین- پذیرفته شده
۴	روح الله امیری، فریدون بهنیا، " مکان یابی اهداف در رادارهای چند ورودی چند خروجی با آنتن های توزیع یافته "، مجله علمی پژوهشی رادار، بهار و تابستان ۹۹، شماره ۱ صفحه ۱ تا ۱۳
۵	محمد ضیغمی، محمد حسن باستانی و فریدون بهنیا، " بررسی الگوریتم برد داپلر در رادارهای تصویر بردار روزنه مصنوعی با شکل موج OFDM "، مجله علمی پژوهشی علوم و فناوری های پدافند نوین- سال هشتم، شماره ۳، پاییز ۹۶، ۲۸۴-۲۷۵
۶	مینا امیری، ادموند زاهدی، فریدون بهنیا " مدل سازی خود رگرسیو تغییرات بخش AC سیگنال فوتوپلیتیسموگرام پس از آزمون اتساع ناشی از جریان خون در افراد سالم و دیابتی " مجله مهندسی پزشکی زیستی، دوره هفتم، شماره ۱، بهار ۱۳۹۲

Selected Conference papers in Farsi

- ۱ محمد نظری مجد، محمد مهدی چیتگرها، مجتبی رادمرد، محمد مهدی نایی و فریدون بهنیا " تعیین چیدمان گیرنده در رادارهای چند ورودی چند خروجی با آنتن های گسترده " کنفرانس رادار دانشگاه امام حسین، اسفند ۱۳۹۱

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صنعت، ۲۰۰۹