# Marko Beko

## List of Publications by Year
## in descending order

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|---|---|---|---|
| **124**<br>papers | **2,131**<br>citations | 331259<br>**21**<br>h-index | 276539<br>**41**<br>g-index |
| **130**<br>all docs | **130**<br>docs citations | **130**<br>times ranked | **1484**<br>citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | RSS-Based Localization in Wireless Sensor Networks Using Convex Relaxation: Noncooperative and Cooperative Schemes. IEEE Transactions on Vehicular Technology, 2015, 64, 2037-2050. | 3.9 | 271 |
| 2 | 3-D Target Localization in Wireless Sensor Networks Using RSS and AoA Measurements. IEEE Transactions on Vehicular Technology, 2017, 66, 3197-3210. | 3.9 | 185 |
| 3 | Distributed RSS-AoA Based Localization With Unknown Transmit Powers. IEEE Wireless Communications Letters, 2016, 5, 392-395. | 3.2 | 105 |
| 4 | A Closed-Form Solution for RSS/AoA Target Localization by Spherical Coordinates Conversion. IEEE Wireless Communications Letters, 2016, 5, 680-683. | 3.2 | 84 |
| 5 | A bisection-based approach for exact target localization in NLOS environments. Signal Processing, 2018, 143, 328-335. | 2.1 | 72 |
| 6 | A Robust Bisection-Based Estimator for TOA-Based Target Localization in NLOS Environments. IEEE Communications Letters, 2017, 21, 2488-2491. | 2.5 | 71 |
| 7 | Designing Good Multi-Dimensional Constellations. IEEE Wireless Communications Letters, 2012, 1, 221-224. | 3.2 | 66 |
| 8 | On Target Localization Using Combined RSS and AoA Measurements. Sensors, 2018, 18, 1266. | 2.1 | 62 |
| 9 | Distributed RSS-Based Localization in Wireless Sensor Networks Based on Second-Order Cone Programming. Sensors, 2014, 14, 18410-18432. | 2.1 | 56 |
| 10 | Distributed algorithm for target localization in wireless sensor networks using RSS and AoA measurements. Pervasive and Mobile Computing, 2017, 37, 63-77. | 2.1 | 53 |
| 11 | A Linear Estimator for Network Localization Using Integrated RSS and AOA Measurements. IEEE Signal Processing Letters, 2019, 26, 405-409. | 2.1 | 53 |
| 12 | Static drone placement by elephant herding optimization algorithm. , 2017, , . | | 50 |
| 13 | A Robust NLOS Bias Mitigation Technique for RSS-TOA-Based Target Localization. IEEE Signal Processing Letters, 2019, 26, 64-68. | 2.1 | 49 |
| 14 | Target Localization in NLOS Environments Using RSS and TOA Measurements. IEEE Wireless Communications Letters, 2018, 7, 1062-1065. | 3.2 | 40 |
| 15 | Elephant Herding Optimization for Energy-Based Localization. Sensors, 2018, 18, 2849. | 2.1 | 38 |
| 16 | Noncoherent Communication in Multiple-Antenna Systems: Receiver Design and Codebook Construction. IEEE Transactions on Signal Processing, 2007, 55, 5703-5715. | 3.2 | 32 |
| 17 | Massive MIMO Techniques for 5G and Beyondâ€"Opportunities and Challenges. Electronics (Switzerland), 2021, 10, 1667. | 1.8 | 30 |
| 18 | A Review of Techniques for Implementing Elliptic Curve Point Multiplication on Hardware. Journal of Sensor and Actuator Networks, 2021, 10, 3. | 2.3 | 30 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | Support Vector Machine Parameters Optimization by Enhanced Fireworks Algorithm. Lecture Notes in Computer Science, 2016, , 526-534. | 1.0 | 28 |
| 20 | Monarch butterfly optimization algorithm for localization in wireless sensor networks. , 2018, , . | | 27 |
| 21 | Bayesian methodology for target tracking using combined RSS and AoA measurements. Physical Communication, 2017, 25, 158-166. | 1.2 | 26 |
| 22 | Fireworks algorithm for RFID network planning problem. , 2015, , . | | 25 |
| 23 | Efficient Beamforming in Cognitive Radio Multicast Transmission. IEEE Transactions on Wireless Communications, 2012, 11, 4108-4117. | 6.1 | 24 |
| 24 | Elephant Herding Optimization Algorithm for Wireless Sensor Network Localization Problem. IFIP Advances in Information and Communication Technology, 2018, , 175-184. | 0.5 | 23 |
| 25 | Exact Robust Solution to TW-ToA-Based Target Localization Problem With Clock Imperfections. IEEE Signal Processing Letters, 2018, 25, 531-535. | 2.1 | 22 |
| 26 | Node localization in ad hoc wireless sensor networks using fireworks algorithm. , 2016, , . | | 21 |
| 27 | Dynamic Search Tree Growth Algorithm for Global Optimization. IFIP Advances in Information and Communication Technology, 2019, , 143-153. | 0.5 | 21 |
| 28 | Further Results on the Capacity and Error Probability Analysis of Noncoherent MIMO Systems in the Low SNR Regime. IEEE Transactions on Signal Processing, 2008, 56, 2915-2930. | 3.2 | 19 |
| 29 | Energy-Based Localization in Wireless Sensor Networks Using Second-Order Cone Programming Relaxation. Wireless Personal Communications, 2014, 77, 1847-1857. | 1.8 | 19 |
| 30 | Target Tracking with Sensor Navigation Using Coupled RSS and AoA Measurements. Sensors, 2017, 17, 2690. | 2.1 | 18 |
| 31 | Wireless Sensor Network Localization Problem by Hybridized Moth Search Algorithm. , 2018, , . | | 18 |
| 32 | Target Localization via Integrated and Segregated Ranging Based on RSS and TOA Measurements. Sensors, 2019, 19, 230. | 2.1 | 18 |
| 33 | Energy-Based Acoustic Localization by Improved Elephant Herding Optimization. IEEE Access, 2020, 8, 28548-28559. | 2.6 | 18 |
| 34 | Systematic Method for Designing Constellations for Intensity-Modulated Optical Systems. Journal of Optical Communications and Networking, 2014, 6, 449. | 3.3 | 17 |
| 35 | A Channel Model for Polarized Off-Body Communications With Dynamic Users. IEEE Transactions on Antennas and Propagation, 2019, 67, 7001-7013. | 3.1 | 17 |
| 36 | GTRS-Based Algorithm for UAV Navigation in Indoor Environments Employing Range Measurements and Odometry. IEEE Access, 2021, 9, 89120-89132. | 2.6 | 17 |

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|---|---------|-----|-----------|
| 37 | Distributed Localization with Complemented RSS and AOA Measurements: Theory and Methods. Applied Sciences (Switzerland), 2020, 10, 272. | 1.3 | 17 |
| 38 | Hybrid RSS-AoA technique for 3-D node localization in wireless sensor networks. , 2015, , . | | 15 |
| 39 | Hybridized moth search algorithm for constrained optimization problems. , 2018, , . | | 14 |
| 40 | A Geometric Approach for Distributed Multi-Hop Target Localization in Cooperative Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 914-919. | 3.9 | 14 |
| 41 | A Feed-Forward Neural Network Approach for Energy-Based Acoustic Source Localization. Journal of Sensor and Actuator Networks, 2021, 10, 29. | 2.3 | 14 |
| 42 | Multispectral Cameras and Machine Learning Integrated into Portable Devices as Clay Prediction Technology. Journal of Sensor and Actuator Networks, 2021, 10, 40. | 2.3 | 14 |
| 43 | Mobile wireless sensor networks coverage maximization by firefly algorithm. , 2017, , . | | 13 |
| 44 | A Mobility Model for Wearable Antennas on Dynamic Users. IEEE Access, 2018, 6, 63635-63648. | 2.6 | 13 |
| 45 | RSS-based localization in wireless sensor networks using SOCP relaxation. , 2013, , . | | 12 |
| 46 | Hybridized Artificial Bee Colony Algorithm for Constrained Portfolio Optimization Problem. , 2018, , . | | 12 |
| 47 | Energy-based localization in wireless sensor networks using semidefinite relaxation. , 2011, , . | | 10 |
| 48 | Bare Bones Fireworks Algorithm for the RFID Network Planning Problem. , 2018, , . | | 10 |
| 49 | On Consensus-Based Distributed Blind Calibration of Sensor Networks. Sensors, 2018, 18, 4027. | 2.1 | 10 |
| 50 | Development of a Test-Bench for Evaluating the Embedded Implementation of the Improved Elephant Herding Optimization Algorithm Applied to Energy-Based Acoustic Localization. Computers, 2020, 9, 87. | 2.1 | 10 |
| 51 | Multiobjective RFID Network Planning by Artificial Bee Colony Algorithm with Genetic Operators. Lecture Notes in Computer Science, 2015, , 247-254. | 1.0 | 10 |
| 52 | On the Use of Multiple Grossly Nonlinear Amplifiers for Highly Efficient Linear Amplification of Multilevel Constellations. , 2013, , . | | 9 |
| 53 | Distributed Value Function Approximation for Collaborative Multiagent Reinforcement Learning. IEEE Transactions on Control of Network Systems, 2021, 8, 1270-1280. | 2.4 | 9 |
| 54 | An SOCP Estimator for Hybrid RSS and AOA Target Localization in Sensor Networks. Sensors, 2021, 21, 1731. | 2.1 | 8 |

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| 55 | A Multi-Start Algorithm for Solving the Capacitated Vehicle Routing Problem with Two-Dimensional Loading Constraints. Symmetry, 2021, 13, 1697. | 1.1 | 8 |
| 56 | Peak‐to‐average power ratio reduction in multiple‐input multiple‐output orthogonal frequency‐division multiple access systems using geodesic descent method. IET Communications, 2016, 10, 212-218. | 1.5 | 7 |
| 57 | Modified and Hybridized Monarch Butterfly Algorithms for Multi-Objective Optimization. Advances in Intelligent Systems and Computing, 2020, , 449-458. | 0.5 | 7 |
| 58 | Aerial Intelligent Reflecting Surfaces in MIMO-NOMA Networks: Fundamentals, Potential Achievements, and Challenges. IEEE Open Journal of the Communications Society, 2022, 3, 1007-1024. | 4.4 | 7 |
| 59 | Distributed RSS-based localization in wireless sensor networks using convex relaxation. , 2014, , . | | 6 |
| 60 | Using the Fireworks Algorithm for ML Detection of Nonlinear OFDM. , 2017, , . | | 6 |
| 61 | Implementation and Validation of Elephant Herding Optimization Algorithm for Acoustic Localization. , 2018, , . | | 6 |
| 62 | Bare Bones Fireworks Algorithm for Medical Image Compression. Lecture Notes in Computer Science, 2018, , 262-270. | 1.0 | 6 |
| 63 | Estimating Directional Data From Network Topology for Improving Tracking Performance. Journal of Sensor and Actuator Networks, 2019, 8, 30. | 2.3 | 6 |
| 64 | Nonlinear robustified stochastic consensus seeking. Systems and Control Letters, 2020, 139, 104667. | 1.3 | 6 |
| 65 | Collaborative Data Transmission in Wireless Sensor Networks. IEEE Access, 2020, 8, 39647-39658. | 2.6 | 6 |
| 66 | Cooperative localization in wireless sensor networks using combined measurements. , 2015, , . | | 5 |
| 67 | Bleeding Detection in Wireless Capsule Endoscopy Images Using Texture and Color Features. , 2018, , . | | 5 |
| 68 | Exploiting Orientation Information to Improve Range-Based Localization Accuracy. IEEE Access, 2020, 8, 44041-44047. | 2.6 | 5 |
| 69 | Toward Secure Localization in Randomly Deployed Wireless Networks. IEEE Internet of Things Journal, 2021, 8, 17436-17448. | 5.5 | 5 |
| 70 | Drones as Sound Sensors for Energy-Based Acoustic Tracking on Wildfire Environments. IFIP Advances in Information and Communication Technology, 2022, , 109-125. | 0.5 | 5 |
| 71 | Convex optimization-based beamforming in cognitive radio multicast transmission. , 2012, , . | | 4 |
| 72 | Robust Frequency-Domain Receivers for a Transmission Technique with Directivity at the Constellation Level. , 2014, , . | | 4 |

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| 73 | An efficient WLS estimator for target localization in wireless sensor networks. , 2016, , . | | 4 |
| 74 | Digital image forgery detection based on shadow texture features. , 2016, , . | | 4 |
| 75 | Kalman filter for target tracking using coupled RSS and AoA measurements. , 2017, , . | | 4 |
| 76 | A New Perspective on Range and Directional Localization Problem. IEEE Open Journal of Vehicular Technology, 2021, 2, 337-344. | 3.4 | 4 |
| 77 | Distributed Spectrum Management in Cognitive Radio Networks by Consensus-Based Reinforcement Learning. Sensors, 2021, 21, 2970. | 2.1 | 4 |
| 78 | Swarm Optimization for Energy-Based Acoustic Source Localization: A Comprehensive Study. Sensors, 2022, 22, 1894. | 2.1 | 4 |
| 79 | Codebook Design for the Non-Coherent GLRT Receiver and Low SNR MIMO Block Fading Channel. , 2006, , . | | 3 |
| 80 | Codebook design for communication in spread and nonspread space-time block codes-based systems. , 2009, , . | | 3 |
| 81 | On energy-based localization in wireless sensor networks. , 2011, , . | | 3 |
| 82 | Efficient Amplification and Detection of Multilevel SC-FDE Signals Based on BPSK Components. , 2013, , . | | 3 |
| 83 | On the Use of Multiple Amplifiers and Antennas for Efficient Directive Transmission with Large Constellations. , 2013, , . | | 3 |
| 84 | Efficient estimator for distributed RSS-based localization in wireless sensor networks. , 2015, , . | | 3 |
| 85 | Sparse Analyzer Tool for Biomedical Signals. Sensors, 2020, 20, 2602. | 2.1 | 3 |
| 86 | Secure Information Transmission with Self Jamming SWIPT. Electronics (Switzerland), 2020, 9, 587. | 1.8 | 3 |
| 87 | Capacity and Error Probability Analysis of Non-Coherent MIMO Systems in the Low SNR Regime. , 2007, , . | | 2 |
| 88 | Space-Time Codebook Design for Spread Systems. Wireless Personal Communications, 2013, 69, 1783-1797. | 1.8 | 2 |
| 89 | Robust Nonlinear Consensus Seeking. , 2019, , . | | 2 |
| 90 | Energy Efficient Secure Communication Model against Cooperative Eavesdropper. Applied Sciences (Switzerland), 2021, 11, 1563. | 1.3 | 2 |

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| 91 | Distributed Gradient Temporal Difference Off-policy Learning With Eligibility Traces: Weak Convergence. IFAC-PapersOnLine, 2020, 53, 1563-1568. | 0.5 | 2 |
| 92 | Kalman Filtering for Tracking a Moving Acoustic Source based on Energy Measurements. , 2021, , . | | 2 |
| 93 | Detecting Distance-Spoofing Attacks in Arbitrarily-Deployed Wireless Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 4383-4395. | 3.9 | 2 |
| 94 | A complex convex relaxation for approximate maximum likelihood 2D energy-based source localization in sensor networks. , 2010, , . | | 1 |
| 95 | Space-time block code design for communication in spread systems. , 2010, , . | | 1 |
| 96 | Efficient convex optimization for beamforming in cognitive radio multicast transmission. , 2012, , . | | 1 |
| 97 | Simultaneous distributed carrier synchronization and data transmission in wireless sensor networks. , 2014, , . | | 1 |
| 98 | Relay Type 1a in LTE-Advanced: Can it increase energy efficiency?. , 2014, , . | | 1 |
| 99 | Peak reduction in OFDM using second-order cone programming relaxation. Eurasip Journal on Advances in Signal Processing, 2014, 2014, . | 1.0 | 1 |
| 100 | Design of good constellations for single-subcarrier intensity-modulated optical systems. , 2014, , . | | 1 |
| 101 | One bit of feedback power allocation algorithm for collaborative beamforming in wireless sensor networks. , 2015, , . | | 1 |
| 102 | DCT based algorithm for blurred regions determination in digital images. , 2015, , . | | 1 |
| 103 | A geodesic descent technique for PAPR reduction in MIMO-OFDM. , 2015, , . | | 1 |
| 104 | Performance analysis of a distributed algorithm for target localization in wireless sensor networks using hybrid measurements in a connection failure scenario. , 2017, , . | | 1 |
| 105 | Case Study of Target Localization Based on Hybrid and Traditional Ranging via RSS and TOA. , 2018, , . | | 1 |
| 106 | On Hybrid RSS/TOA Target Localization in NLOS Environments. , 2018, , . | | 1 |
| 107 | Dependable and Secure Voting Mechanism in Edge Computing. Future Internet, 2019, 11, 262. | 2.4 | 1 |
| 108 | Joint Channel and Information Estimation on Symbol Decomposition-Based Secure Point-to-Point Communications. IFIP Advances in Information and Communication Technology, 2020, , 137-146. | 0.5 | 1 |

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| 109 | Collaborative beamforming techniques for data transmission in wireless sensor networks. Telfor Journal, 2015, 7, 62-67. | 0.7 | 1 |
| 110 | Color Image Segmentation by Multilevel Thresholding Based on Harmony Search Algorithm. Lecture Notes in Computer Science, 2017, , 571-579. | 1.0 | 1 |
| 111 | Cooperative Multi-Agent Reinforcement Learning for Spectrum Management in IoT Cognitive Networks. , 2020, , . | | 1 |
| 112 | A simple design of structured space-time block codes for communication in spread systems. , 2010, , . | | 0 |
| 113 | Efficient receivers for SC-FDE with offset modulations. , 2012, , . | | 0 |
| 114 | Energy- and spectral-efficiency increase while constraining interference using regenerative relay. , 2014, , . | | 0 |
| 115 | Distributed RSS-Based Localization in Wireless Sensor Networks with Asynchronous Node Communication. IFIP Advances in Information and Communication Technology, 2014, , 515-524. | 0.5 | 0 |
| 116 | A WLS Estimator for Target Localization in a Cooperative Wireless Sensor Network. IFIP Advances in Information and Communication Technology, 2016, , 273-283. | 0.5 | 0 |
| 117 | Target localization in adverse indoor environments. , 2017, , . | | 0 |
| 118 | MAP Estimator for Target Tracking in Wireless Sensor Networks for Unknown Transmit Power. IFIP Advances in Information and Communication Technology, 2017, , 325-334. | 0.5 | 0 |
| 119 | A Novel Highly-Efficient Amplification Scheme for Wireless Communications in a CathLab Environment. IEEE Access, 2021, 9, 87520-87530. | 2.6 | 0 |
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| 121 | Random Access NDMA MAC Protocols for Satellite Networks. Lecture Notes in Computer Science, 2013, , 427-438. | 1.0 | 0 |
| 122 | Trade-off analysis of energy-efficiency versus generated interference when using regenerative relay. Telfor Journal, 2015, 7, 14-19. | 0.7 | 0 |
| 123 | Application of deep learning algorithms and architectures in the new generation of mobile networks. Serbian Journal of Electrical Engineering, 2021, 18, 397-426. | 0.2 | 0 |
| 124 | Combining Gradient-Based and Thresholding Methods for Improved Signal Reconstruction Performance. Journal of Signal Processing Systems, 0, , . | 1.4 | 0 |