

# Alexandru Martian

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/155294/publications.pdf>

Version: 2024-02-01

44  
papers

386  
citations

1307594

7  
h-index

1281871

11  
g-index

45  
all docs

45  
docs citations

45  
times ranked

473  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Big Data, Internet of Things and Cloud Convergence – An Architecture for Secure E-Health Applications. Journal of Medical Systems, 2015, 39, 141. | 3.6 | 139       |
| 2  | Drone Detection and Defense Systems: Survey and a Software-Defined Radio-Based Solution. Sensors, 2022, 22, 1453.                                 | 3.8 | 44        |
| 3  | Energy Detection Algorithm for Spectrum Sensing Using Three Consecutive Sensing Events. IEEE Wireless Communications Letters, 2016, 5, 284-287.   | 5.0 | 29        |
| 4  | Big Data Processing for Renewable Energy Telemetry Using a Decentralized Cloud M2M System. Wireless Personal Communications, 2016, 87, 1113-1128. | 2.7 | 23        |
| 5  | Spectrum Occupancy in an Urban Environment: A Cognitive Radio Approach. , 2010, , .   |     | 17        |
| 6  | Comparative study of Radio Mobile and ICS Telecom propagation prediction models for DVB-T. , 2015, , .  |     | 15        |
| 7  | Three-Event Energy Detection with Adaptive Threshold for Spectrum Sensing in Cognitive Radio Systems. Sensors, 2020, 20, 3614.                    | 3.8 | 14        |
| 8  | Real-time spectrum sensing using software defined radio platforms. Telecommunication Systems, 2017, 64, 749-761.                                  | 2.5 | 10        |
| 9  | Access to RF White Spaces in Romania: Present and Future. Wireless Personal Communications, 2016, 87, 693-712.                                    | 2.7 | 9         |
| 10 | A new ML detector for trellis-coded spatial modulation using hard and soft estimates. , 2012, , .   |     | 5         |
| 11 | USRP-based experimental platform for energy detection in cognitive radio systems. , 2016, , .   |     | 5         |
| 12 | DVB-T2 radio coverage analysis in Romania. , 2017, , .  |     | 5         |
| 13 | Angle-of-Arrival Estimation in Formation Flying Satellites: Concept and Demonstration. IEEE Access, 2019, 7, 114116-114130.                       | 4.2 | 5         |
| 14 | Comparative Analysis of Software Defined Radio Platforms for Spectrum Sensing Applications. , 2020, , .   |     | 5         |
| 15 | Distance estimation in OFDM inter-satellite links. Measurement: Journal of the International Measurement Confederation, 2020, 154, 107479.        | 5.0 | 5         |
| 16 | RF Based UAV Detection and Defense Systems: Survey and a Novel Solution. , 2021, , .  |     | 5         |
| 17 | Spectrum sensing based on spectral correlation for cognitive radio systems. , 2014, , .   |     | 4         |
| 18 | Spectrum Sensing Based on Energy Detection Algorithms Using GNU Radio and USRP for Cognitive Radio. , 2018, , .                                   |     | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Spectrum Sensing With Energy Detection in Multiple Alternating Time Slots. IEEE Access, 2022, 10, 38565-38574.                        | 4.2 | 4         |
| 20 | Analysis of frequency spectrum usage from a cognitive radio perspective. , 2010, , .  |     | 3         |
| 21 | Transition from analog to digital broadcasting A spectral efficiency review. , 2012, , .  |     | 3         |
| 22 | An accurate average energy detection algorithm for spectrum sensing in cognitive radio systems. , 2014, , .                           |     | 3         |
| 23 | Triple- Threshold Energy Detection with Adaptive Intermediate Threshold for Cooperative Spectrum Sensing. , 2022, , .                 |     | 3         |
| 24 | Cognitive radio testing framework based on USRP. , 2013, , .  |     | 2         |
| 25 | Data collection for spectrum sensing algorithms based on USRP. , 2014, , .  |     | 2         |
| 26 | On the compromise between delay and performance of the Three-Event Energy Detection algorithm in Cognitive Radio systems. , 2016, , . |     | 2         |
| 27 | Relative orientation estimation in formation flying satellites. , 2017, , .   |     | 2         |
| 28 | A Modified 3EED Spectrum Sensing Algorithm Using an Adaptive Decision Threshold. , 2018, , .  |     | 2         |
| 29 | Inter-Satellite Radio Frequency Ranging in a Hybrid OFDM Communication-Metrology System. , 2018, , .                                  |     | 2         |
| 30 | Adaptive IED Spectrum Sensing Algorithm for Different Duty Cycle Values. , 2018, , .  |     | 2         |
| 31 | A Modified Double-Threshold Spectrum Sensing Algorithm Based on Adaptive-Threshold Mean Energy Detection. , 2021, , .                 |     | 2         |
| 32 | Novel Software Defined Radio Testbed for Spectrum Occupancy Measurements. , 2020, , .   |     | 2         |
| 33 | ML-based Analytics Framework for beyond 5G Mobile Communication Systems. , 2020, , .  |     | 2         |
| 34 | On the availability of CDMA channels for secondary users. , 2010, , .   |     | 1         |
| 35 | Network Cloud simulator for modelling trust in Cognitive Radio applications. , 2013, , .  |     | 1         |
| 36 | Real-time spectrum sensor based on USRP. , 2014, , .  |     | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Evaluation of synchronization techniques for inter-satellite links. , 2016, , .  |     | 1         |
| 38 | Performance Analysis of MUSIC and Capon DOA Estimation Algorithms in Cognitive Radio Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 142-148. | 0.3 | 1         |
| 39 | Spectrum Sensing Based on Energy Detection Algorithms Using GNU Radio and USRP for Cognitive Radio. , 2018, , .  |     | 1         |
| 40 | Aerial Drone Defense System based on Software Defined Radio Platforms. , 2022, , .   |     | 1         |
| 41 | Microwave antenna array using new dielectric resonator antenna elements. , 2017, , .   |     | 0         |
| 42 | Adaptive IED Spectrum Sensing Algorithm for Different Duty Cycle Values. , 2018, , .   |     | 0         |
| 43 | Amplify-and-Forward Cooperative Spectrum Sensing Using Three Secondary Users for Cognitive Radio. , 2019, , .  |     | 0         |
| 44 | Pesticide Telemetry Using Potentiostat. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 58-63.  | 0.3 | 0         |