

List of Publications

- **S. Bertoldo**, C. Lucianaz, L. Bongarzone, M. Allegretti, *The use of an automotive 77 GHz radar as a microwave rain gauge*, 3rd Italian Radar and Remote Sensing Workshop (RRSW2019), 30th-31st Mat 2019. ABSTRACT SUBMITTED
- S. Farris, A. Seoni, D. Ruggiu, **S. Bertoldo**, G. Perona, M. Allegretti, M. Marrocu, M.G. Badas, F. Viola, R. Deidda, *First analyses of rainfall patterns retrieved by a X-band radar over the Metropolitan area of Cagliari (Sardinia, Italy)*, 3rd Italian Radar and Remote Sensing Workshop (RRSW2019), 30th-31st Mat 2019. ABSTRACT SUBMITTED
- **S. Bertoldo**, L. Carosso, C. Lucianaz, E. Marchetta, M. Paredes, M. Allegretti, P. Savi, *Propagation measurements for a LoRa network in an urban noisy environment*, Journal of Electromagnetic Waves and Applications (JEWa). PAPER SUBMITTED
- P. Savi, **S. Bertoldo**, A. J. Milani, *Determining real permittivity from Fresnel coefficients in GNSS-R*, Progress in Electromagnetics Research M, Vol. 79, pp. 159-166, 2019, ISSN: 1937-8726. DOI: [10.2528/PIERM1812070](https://doi.org/10.2528/PIERM1812070)
- P. Savi, **S. Bertoldo**, A. J. Milani, *GNSS Reflectometry Systems for soil permittivity determination*, 13th European Conference of Antennas and Propagation (EuCAP 2019) 31st March - 5th April 2019, Krakow (Poland), pp. 1-4.
- **S. Bertoldo**, M. Paredes, L. Carosso, M. Allegretti, P. Savi, *Empirical indoor propagation models for LoRa radio link in an office environment*, 13th European Conference of Antennas and Propagation (EuCAP 2019) 31st March - 5th April 2019, Krakow, Poland, pp. 1-4.
- S. Farris, A. Seoni, D. Ruggiu, **S. Bertoldo**, G. Perona, M. Allegretti, M. Marrocu, M.G. Badas, F. Viola, R. Deidda, *First analyses of rainfall patterns retrieved by a newly installed X-band radar over the Metropolitan area of Cagliari (Sardinia, Italy)*, 11th International Workshop on Precipitation in Urban Areas, UrbanRain18, 5- 7 December 2018, Pontresina, Switzerland.
- **S. Bertoldo**, L. Carosso, E. Marchetta, M. Paredes, M. Allegretti, *Feasibility Analysis of LoRa-based WSN using public transport*. Applied System Innovation, Vol. 1, No. 4, 49, 2018. Special Issue "Wireless Sensor Networks on Internet of Things and Intelligent System". ISSN: 2571-5577. DOI: <https://doi.org/10.3390/asi1040049>
- **S. Bertoldo**, M. Allegretti, M. Paredes, L. Carosso, P. Savi, *Feasibility study of LoRa ad-hoc network in an urban noisy environment*. Mediterranean Microwave Symposium 2018 (MMS 2018), 31 October - 2 November 2018, Istanbul (Turkey), pp. 357-360, ISBN: 9781538671320. DOI: [10.1109/MMS.2018.8612027](https://doi.org/10.1109/MMS.2018.8612027)
- T. D. Bui, T. C. Basso, **S. Bertoldo**, C. Attanasio, *Trajectory Reconstruction of Balloon Radiosondes for Tracking Air Fluctuations Inside Warm Clouds*, 2018 IEEE SENSORS, New Delhi (India), 28-31 October 2018, pp. 1-4. DOI: [10.1109/ICSENS.2018.8589783](https://doi.org/10.1109/ICSENS.2018.8589783).
- **S. Bertoldo**, M. Paredes, L. Carosso, C. Lucianaz, M. Allegretti, F. Canavero, G. Perona, *Progress on the realization of a LoRa@ based communication system for atmospheric monitoring probes*, XXII Riunione Nazionale di Elettromagnetismo, XXII RiNEm, 3-6 September 2018, Cagliari (ITA), pp. 129-132, ISBN: 9788890759925 (<http://www.elettromagnetismo.it/wp-content/uploads/2018/09/XXII-RiNEm-Conference-Proceedings.pdf>).
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- T. C. Basso, **S. Bertoldo**, G. Perona, G. Perotto, A. Athanassiou, D. Tordella, *Innovative, green, floating radiosondes to track small-scale fluctuations along isopycnic surfaces in and around warm clouds*, EGU General Assembly 2018, 8 -13 April 2018, Wien (AUT), Geophysical Research Abstracts, Vol. 20, EGU2018-17660 (<https://meetingorganizer.copernicus.org/EGU2018/EGU2018-17660.pdf>).
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- **S. Bertoldo**, C. Lucianaz, M. Allegretti, *Radar meteo ad alta risoluzione spaziale per studio di eventi estremi*, RadMet 2017.IT, 3-4 Luglio 2017, Roma (ITA). Oral presentation.
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- A. A. Khamukhin, A. Y. Demin, D.M. Sonkin, **S. Bertoldo**, G. Perona, V. Kretova, *An algorithm of the wildfire classification by its acoustic emission spectrum using Wireless Sensor Networks*, in Journal Of Physics. Conference Series, vol. 803, 012067, Bristol Institute of Physics Publishing, ISSN 1742-6588, DOI: [10.1088/1742-6596/803/1/012067](https://doi.org/10.1088/1742-6596/803/1/012067)
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- M. Allegretti, **S. Bertoldo**, C. Lucianaz, G. Perona, *Reti di sensori per monitoraggio marino*, III Convegno Nazionale CINFAI, Il Consorzio tra offerta e richiesta di ricerca: analisi e prospettive di mercato, Rovereto (TN), Italy, 14-15 October 2015. Poster.
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