Israel Alejandro Arriaga Trejo
Tel. +492 9256690 ext. 4008
E-mail: iaarriagatr@conacyt.mx

Adscripción

CONACYT - UAZ

Posición Laboral

Catedrático CONACYT

Área de Especialidad

Procesamiento de señales

Cuerpo Académico

Semblanza

Catedrático CONACYT asignado en comisión a la Universidad Autónoma de Zacatecas "Francisco García Salinas" bajo el marco del proyecto 3066

Líneas de generación y Aplicación del conocimiento

- Procesamiento digital de señales
- Diseño de formas de onda
- Estimación de canal

Últimos trabajos publicados:

[1] Arriaga-Trejo, I. A., *Design of Constant Modulus Sequences with Doppler Shift Tolerance and Good Complete Second Order Statistics*. **2020 IEEE International Radar Conference**, **Washington**, **USA**. *En prensa*

[2] Arriaga-Trejo, I. A., *Estimation of the Channel and I/Q Imbalances with Zero Correlation Zone Sequences and Superimposed Training*. **2019 IEEE International Conference on**

Microwaves, Antennas, Communications and Electronic Systems (COMCAS 2019) Tel-Aviv, **Israel**. Disponible en: https://ieeexplore.ieee.org/abstract/document/8958069

[3] Fernández-Morales, I. I., Escobedo-Juárez, S., Lechuga-Rodríguez, R., Arriaga-Trejo, I. A., *Educative Platform Based on the PocketQube60 Standard*. **Small Satellite Conference 2019**. **Utah**, **USA**. Disponible en: https://digitalcommons.usu.edu/smallsat/2019/all2019/182/

[4] Arriaga-Trejo, I. A., Bose, A., Orozco-Lugo, A. G., Soltanalian, M., *Design of Unimodular Sequence Sets with Good Correlation and Complementary Correlation Properties*. **2018 IEEE Global Conference on Signal and Information Processing (GlobalSIP)** pp. 121–125, **Anaheim**, **USA**. Disponible en: https://ieeexplore.ieee.org/abstract/document/8646667

[5] A. Bose, I. A. Arriaga-Trejo, A. G. Orozco-Lugo, M. Soltanalian, *Generalized cyclic algorithms for designing unimodular sequence sets with good (complementary) correlation properties*. **2018 IEEE 10th Sensor Array and Multichannel Signal Processing Workshop** (SAM), pp. 287 – 291, **Sheffield**, **United Kingdom**. Disponible en: https://ieeexplore.ieee.org/abstract/document/8448920

[6] I. A. Arriaga-Trejo, A. G. Orozco-Lugo. *Unimodular Sequences with Low Complementary Autocorrelation Properties*. **Computer Science and Engineering—Theory and Applications**, pp. 259 – 282. **Springer, Cham** (Capítulo de libro). Disponible en: https://link.springer.com/chapter/10.1007/978-3-319-74060-7_14

[7] I. A. Arriaga-Trejo, A. G. Orozco-Lugo, et. al. *Joint I/Q imbalances estimation using data-dependent superimposed training*. **Signal, Image and Video Processing**, vol. 11, pp. 729 – 736, 2017. Disponible en: https://link.springer.com/article/10.1007/s11760-016-1016-0

[8] I. A. Arriaga-Trejo, A. G. Orozco-Lugo, J. Flores. *Design of unimodular sequences with good autocorrelation and good complementary autocorrelation properties.***IEEE Signal Processing Letters,** vol. 24, pp. 1153 – 1157, 2017. Disponible en: https://ieeexplore.ieee.org/abstract/document/7907238

[9] I. A. Arriaga-Trejo. *Construction of complementary sets of sequences with low aperiodic correlation and complementary correlation.* **2016 IEEE Global Conference on Signal and Information Processing (GlobalSIP)** pp. 85 – 89, **Washington, USA**. Disponible en: https://ieeexplore.ieee.org/abstract/document/7905808

[10] I. A. Arriaga-Trejo, J. Flores, et. al. *Design of unimodular sequences with real periodic correlation and complementary correlation.* **Electronics Letters**, vol. 52, pp. 319 – 321, 2016. Disponible en: https://digital-

library.theiet.org/content/journals/10.1049/el.2015.3694

[11] I. A. Arriaga-Trejo, A. G. Orozco-Lugo, A. Veloz-Guerrero, M. Guzmán-Rentería. *Widely Linear System Estimation Using Superimposed Training.* ***IEEE Transactions on Signal Processing,*** vol. 11, pp. 5651 – 5657, 2011. Disponible en: https://ieeexplore.ieee.org/abstract/document/5960800/

Publicaciones en Conferencias (Congresos)

[1] Arriaga-Trejo, I. A., *Design of Constant Modulus Sequences with Doppler Shift Tolerance and Good Complete Second Order Statistics*. **2020 IEEE International Radar Conference**, **Washington**, **USA**. *En prensa*

[2] Arriaga-Trejo, I. A., *Estimation of the Channel and I/Q Imbalances with Zero Correlation Zone Sequences and Superimposed Training*. **2019 IEEE International Conference on Microwaves, Antennas, Communications and Electronic Systems (COMCAS 2019) Tel-Aviv**, **Israel**. Disponible en: https://ieeexplore.ieee.org/abstract/document/8958069

[3] Fernández-Morales, I. I., Escobedo-Juárez, S., Lechuga-Rodríguez, R., Arriaga-Trejo, I. A., *Educative Platform Based on the PocketQube60 Standard*. **Small Satellite Conference 2019**. **Utah**, **USA**. Disponible en: https://digitalcommons.usu.edu/smallsat/2019/all2019/182/

[4] Arriaga-Trejo, I. A., Bose, A., Orozco-Lugo, A. G., Soltanalian, M., *Design of Unimodular Sequence Sets with Good Correlation and Complementary Correlation Properties*. **2018 IEEE Global Conference on Signal and Information Processing (GlobalSIP)** pp. 121–125, **Anaheim**, **USA**. Disponible en: https://ieeexplore.ieee.org/abstract/document/8646667

[5] A. Bose, I. A. Arriaga-Trejo, A. G. Orozco-Lugo, M. Soltanalian, *Generalized cyclic algorithms for designing unimodular sequence sets with good (complementary) correlation properties*. **2018 IEEE 10th Sensor Array and Multichannel Signal Processing Workshop** (SAM), pp. 287 – 291, **Sheffield**, **United Kingdom**. Disponible en: https://ieeexplore.ieee.org/abstract/document/8448920

[6] I. A. Arriaga-Trejo. *Construction of complementary sets of sequences with low aperiodic correlation and complementary correlation.* **2016 IEEE Global Conference on Signal and Information Processing (GlobalSIP)** pp. 85 – 89, **Washington, USA**. Disponible en: https://ieeexplore.ieee.org/abstract/document/7905808

Desarrollos Tecnológicos

[1] Desarrollo de computadora OBC para estándar CubeSat

[2] Desarrollo de plataforma educativa basada en estándar PocketQube

[3] Nodo de recepción para entramado AX.25