PUBLICACIONES ESTUDIANTES (2017-2021)
DOCTORADO EN SISTEMAS DE INGENIERÍA

AÑO 2017				
Nº	Año	Título publicación	Autores	Journal o Conferencia, DOI, Indexación
1	2017	Cascaded Multilevel Inverter Based on New Sub-Multilevel Inverter with Reduced Number of Switch	**M. Sarebanzadeh**, M.A. Hosseinzadeh, E. Sarebanzadeh, L. Yazdani, M. Rivera, J. Riveros	Conferencia: 2017 IEEE Southern Power Electronics Conference (SPEC) https://doi.org/10.1109/SPEC.2017.8333665 IEEE Xplore/Scopus Proceedings
2	2017	Communications in Smart Grids.	**R. E. Pérez-Guzmán**, Y. Salgueiro, M. Rivera.	Conferencia: IEEE CHILECON 2017, CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies, in Pucon, Chile. 18-20 October, 2017. Editorial: IEEEXplore, 2017, 1-7, https://doi.org/10.1109/CHILECON.2017.8229561 IEEE Xplore/Scopus Proceedings
3	2017	"Communication Systems and Security Issues in Smart Microgrids".	**R. E. Pérez-Guzmán**, Y. Salgueiro, M. Rivera.	Conferencia: 3rd Annual Southern Hemisphere Power Electronic Conference SPEC 2017. 4-7 December, Puerto Varas, Chile, Editorial: IEEEXplore, 2017, 1-6, https://doi.org/10.1109/SPEC.2017.8333659 IEEE Xplore/Scopus Proceedings

Nº	Año	Título publicación	Autores	Journal o Conferencia, DOI, Indexación
4	2017	Cascaded Multilevel Inverter Based on New Sub-Module Inverter with Reduced Number of Switching Devices	**M.A. Hosseinzadeh**, M. Sarebanzadeh, E. Sarebanzadeh, M. Rivera, E. Babaei, J. Munoz	Conferencia: IEEE 3th Southern Power Electronics Conference (SPEC-2017), 1, Dec. 2017 https://doi.org/10.1109/SPEC.2017.8333665 IEEE Xplore/Scopus Proceedings
5	2017	New Cascaded Multilevel Converters based on Switched-Diode Six-Level Configuration	**M.A. Hosseinzadeh**, M. Sarebanzadeh, E. Sarebanzadeh, M. Rivera, E. Babaei, J. Riveros	Conferencia: IEEE 3th Southern Power Electronics Conference (SPEC-2017), 1, Dec. 2017 https://doi.org/10.1109/SPEC.2017.8333664 IEEE Xplore/Scopus Proceedings
6	2017	A New Topology for Multilevel Inverter with Reduced Number of Switches	**M.A. Hosseinzadeh**, M. Sarebanzadeh, L. Yazdani, E. Sarebanzadeh, M. Rivera	Conferencia: IEEE 3th Southern Power Electronics Conference (SPEC-2017), 1, Dec. 2017 https://doi.org/10.1109/PEDES.2018.8707733 IEEE Xplore/Scopus Proceedings
AÑO 2018				
Nº	Año	Título publicación	Autores	Journal o Conferencia, DOI, Indexación
1	2018	Predictive Control for a Flying Capacitor Multilevel Inverter	**M. Sarbanzadeh**, M.A. Hosseinzadeh, E. Sarebanzadeh, M. Rivera, R. Gregor	Conferencia: IEEE Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles & International Transportation Conference (ESEARS-ITEC2018) , 1, Nov. 2018 https://doi.org/10.1109/ESARS-ITEC.2018.8607280

				IEEE Xplore/Scopus Proceedings
2	2018	Recent Predictive Control Strategies Applied to Flying Capacitor Multilevel Inverters	**M. Sarbanzadeh**, M.A. Hosseinzadeh, E. Sarebanzadeh, M. Rivera	Conferencia: IEEE International Conference of Automation/XXIII Congress of the Chilean Association of Automatic Control (ICA-ACCA-2018) , Oct. 2018 https://doi.org/10.1109/ICA-ACCA.2018.8609794 IEEE Xplore/Scopus Proceedings
3	2018	Trends and Challenges of Predictive Control in Power Electronics	**M. Sarbanzadeh**, M.A. Hosseinzadeh, M. Rivera, E. Sarbanzadeh	Conferencia: IEEE International Conference of Automation/XXIII Congress of the Chilean Association of Automatic Control (ICA-ACCA-2018) , Oct. 2018 https://doi.org/10.1109/ICA-ACCA.2018.8609774 IEEE Xplore/Scopus Proceedings
4	2018	Modelling Communication Network for Intelligent Applications in Microgrids Part I	**R. E. Pérez-Guzmán**, Y. Salgueiro, M. Rivera, J. Muñoz, Sergio Toledo	Conferencia: IEEE ICA-ACCA 2018, Editorial: IEEEXplore, 2018, 1-6 https://doi.org/10.1109/ICA-ACCA.2018.8609707 IEEE Xplore/Scopus Proceedings

PUBLICACIONES ESTUDIANTES (2017-2021)
DOCTORADO EN SISTEMAS DE INGENIERÍA

5	2018	Modelling Communication Network for Intelligent Applications in Microgrids Part II	**R. E. Pérez-Guzmán**, Y. Salgueiro, M. Rivera, J. Muñoz, Sergio Toledo	Conferencia: IEEE ICA-ACCA 2018, Editorial: IEEEXplore, 2018, 1-6 https://doi.org/10.1109/ICA-ACCA.2018.8609780 IEEE Xplore/Scopus Proceedings
6	2018	Communication Improvements for Intelligent Systems in Microgrids-Part I	**R. E. Pérez-Guzmán**, Y. Salgueiro, M. Rivera, J. Muñoz, J. E. Rodas Benítez	Conferencia: In 2018 IEEE International Conference on Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles & International Transportation Electrification Conference (ESARS-ITEC) (pp. 1-6). IEEE. https://doi.org/10.1109/ESARS-ITEC.2018.8607754 IEEE Xplore/Scopus Proceedings
7	2018	Communication Improvements for Intelligent Systems in Microgrids - Part II	**R. E. Pérez-Guzmán**, Y. Salgueiro, M. Rivera, J. Muñoz, J. E. Rodas Benítez	Conferencia: In 2018 IEEE International Conference on Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles & International Transportation Electrification Conference (ESARS-ITEC) (pp. 1-6). IEEE. https://doi.org/10.1109/ESARS-ITEC.2018.8607558 IEEE Xplore/Scopus Proceedings
8	2018	New Asymmetric Cascaded Multi-level Converter with Reduced Components	**M.A. Hosseinzadeh**, M. Sarbanzadeh, E. Sarbanzadeh, M. Rivera, P. Wheeler	Conferencia: IEEE Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles & International

				Transportation Conference (ESEARS-ITEC2018) , 1, Nov. 2018 https://doi.org/10.1109/ESARS-ITEC.2018.8607383 IEEE Xplore/Scopus Proceedings
9	2018	Back-to-Back Modified T-Type Half-Bridge Module for Cascaded Multi-level Inverters with Decreased Number of Components	**M.A. Hosseinzadeh**, M. Sarebanzadeh, E. Sarbanzadeh, M. Rivera, R. Gregor	Conferencia: IEEE Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles & International Transportation Conference (ESEARS-ITEC2018) , 1, Nov. 2018 https://doi.org/10.1109/ESARS-ITEC.2018.8607596 IEEE Xplore/Scopus Proceedings
10	2018	Recent Challenge and Trends of Predictive Control in Power Electronics Application,	**M.A. Hosseinzadeh**, M. Sarebanzadeh, E. Sarbanzadeh, M. Rivera, R. Gregor	Conferencia: IEEE Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles & International Transportation Conference (ESEARS-ITEC2018) , 1, Nov. 2018 https://doi.org/10.1109/ESARS-ITEC.2018.8607391 IEEE Xplore/Scopus Proceedings
11	2018	Predictive Control Applied to a Cascaded H-Bridge Multilevel Converter	**M.A. Hosseinzadeh**, M. Sarebanzadeh, E. Sarbanzadeh, M. Rivera, P. Wheeler	Conferencia: IEEE Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles & International

				Transportation Conference (ESEARS-ITEC2018) , 1, Nov. 2018 https://doi.org/10.1109/ESARS-ITEC.2018.8607723 IEEE Xplore/Scopus Proceedings
12	2018	New Sub- Module for Cascaded Multilevel Inverters with Reduced Switching Devices	**M.A. Hosseinzadeh**, M. Sarebanzadeh, E. Sarbanzadeh, M. Rivera, J. Munoz	Conferencia: IEEE International Conference of Automation/XXIII Congress of the Chilean Association of Automatic Control (ICA-ACCA-2018) , Oct. 2018 https://doi.org/10.1109/ICA-ACCA.2018.8609829 IEEE Xplore/Scopus Proceedings
13	2018	Reduced Modified T-Type Topology for Cascaded Multilevel Inverters,	**M.A. Hosseinzadeh**, M. Sarbanzadeh, E. Sarebanzadeh, M. Rivera, J. Muñoz	Conferencia: IEEE International Conference of Automation/XXIII Congress of the Chilean Association of Automatic Control (ICA-ACCA-2018) , Oct. 2018 **https://doi.org/**10.1109/ICA-ACCA.2018.8666947 IEEE Xplore/Scopus Proceedings
14	2018	Predictive Control in Power Converter Applications: Challenge and Trends	**M.A. Hosseinzadeh**, M. Sarbanzadeh, E. Sarebanzadeh, M. Rivera, J. Muñoz	Conferencia: IEEE International Conference of Automation/XXIII Congress of the Chilean Association of Automatic Control

Nº	Año	Título publicación	Autores	Journal o Conferencia, DOI, Indexación
				(ICA-ACCA-2018), Oct. 2018 https://doi.org/10.1109/ICA-ACCA.2018.8609704 IEEE Xplore/Scopus Proceedings
AÑO 2019				
1	2019	jHawanet: An open-source project for the implementation and assessment of multi-objective evolutionary algorithms on water distribution networks	**Gutiérrez-Bahamondes, Jimmy H.**; Salgueiro, Yamisleydi; Silva-Rubio, Sergio A.; Alsina, Marco A.; Mora-Meliá, Daniel; Fuertes-Miquel, Vicente S.	Journal: Water (Switzerland), 2019 https://doi.org/10.3390/w11102018 WoS (Q2)
2	2019	Genetic Algorithm Technique for 7-Level Cascaded H-Bridge Multilevel Converter THD Minimization	**M. Sarebanzadeh**, M.A. Hosseinzadeh, A. Salehi, M. Rivera, P. Wheeler	Conferencia: IEEE 28th International Symposium on Industrial Electronics, 1, June 2019, https://doi.org/10.1109/ISIE.2019.8781206 IEEE Xplore/Scopus Proceedings
3	2019	A New Basic Unit for Symmetric and Asymmetric Cascaded Multilevel Inverters with Reduced Power Electronic Devices	**M. Sarebanzadeh**, M.A. Hosseinzadeh, E. Babaei, M. Rivera, P. Wheeler	Conferencia: IEEE 28th International Symposium on Industrial Electronics, 1, June 2019, https://doi.org/10.1109/ISIE.2019.8781476 IEEE Xplore/Scopus Proceedings
4	2019	New Reduced Asymmetric Basic Module Multilevel Converters for Cascaded Configurations	**M. Sarebanzadeh**, M.A. Hosseinzadeh, M. Rivera, P. Wheeler	Conferencia: IEEE 28th International Symposium on Industrial Electronics, 1, June 2019, https://doi.org/10.1109/ISIE.2019.8781382

				IEEE Xplore/Scopus Proceedings
5	2019	Model Predictive Control for the New Reduced Multi-level Grid-Connected Converter	**M. Sarbanzadeh**, M.A Hosseinzadeh, A. Salehi M. Rivera, J. Munoz, P. Wheeler	Conferencia: IEEE International Conference on Industrial Technology (ICIT), 1, Feb. 2019 https://doi.org/10.1109/ICIT.2019.8754994 IEEE Xplore/Scopus Proceedings
6	2019	The effect of the mesh refinement on a multiscale domain decomposition method for the non-linear simulation of composite structures	J. **Fernandez** , K. Saavedra , J. Hinojosa , P. Flores	Journal: International Journal of Numerical Methods for Calculation and Design in Engineering (RIMNI), 2019 https://doi.org/10.23967/j.rimni.2019.02.002 WoS (Q1)
7	2019	Control of a Three-Phase Cascaded H-Bridge Multilevel Inverter for Solar Energy Injection	**A.Villalón**, C. Muñoz, J. Muñoz, M. Rivera, M. Sarbanzadeh and M. A. Hosseinzadeh	Conferencia: 2019 IEEE International Conference on Industrial Technology (ICIT), Melbourne, Australia, 2019, pp. 399-404. doi: https://doi.org/10.1109/ICIT.2019.8755226 IEEE Xplore/Scopus Proceedings
8	2019	Predictive Control of a Three-Phase Cascaded H-Bridge Multilevel Inverter for Solar Energy Injection	C. Muñoz, **A. Villalón**, J. Muñoz, M. Rivera, M. Sarbanzadeh and M. A. Hosseinzadeh	Conferencia: 2019 IEEE International Conference on Industrial Technology (ICIT), Melbourne, Australia, 2019, pp. 521-526. https://doi.org/10.1109/ICIT.2019.8754940 IEEE Xplore/Scopus Proceedings
9	2019	"Microgrid Power Sharing Controller	**R. E. Pérez-Guzmán**, M. Rivera, Y. Salguiero, P. W. Wheeler	Conferencia: IEEE CHILECON 2019, CHILEAN Conference on Electrical,

		based on OFDM with QPSK and 64 QAM".		Electronics Engineering, Information and Communication Technologies https://doi.org/10.1109/CHILECON47746.2019.8987677 IEEE Xplore/Scopus Proceedings
10	2019	"Implementation of Predictive Control in a Three-Phase Neutral Point Clamped Inverter".	**R. E. Pérez-Guzmán**, M. Rivera, F. Herrera, J. Riveros, P. W. Wheeler	Conferencia: IEEE CHILECON 2019, CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies https://doi.org/10.1109/CHILECON47746.2019.8987536 IEEE Xplore/Scopus Proceedings
11	2019	"Predictive Control Strategies in Power Converters".	**R. E. Pérez-Guzmán**, M. Rivera, P. W. Wheeler	Conferencia: IEEE CHILECON 2019, CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies https://doi.org/10.1109/CHILECON47746.2019.8987539 IEEE Xplore/Scopus Proceedings
12	2019	"Weighting Factor Design in Model Predictive Control for Power Converters".	**R. E. Pérez-Guzmán**, M. Rivera, P.W. Wheeler	Conferencia: IEEE CHILECON2019, CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies

				https://doi.org/10.1109/CHILECON47746.2019.8988109 IEEE Xplore/Scopus Proceedings
13	2019	"Model Predictive Control in Three-Phase Inverters".	**R. E. Pérez-Guzmán**, M. Rivera, N. Vicencio, P. W. Wheeler	Conferencia: IEEE CHILECON 2019, CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies https://doi.org/10.1109/CHILECON47746.2019.8987470 IEEE Xplore/Scopus Proceedings
14	2019	New Cascaded Multilevel Inverter Configuration with Reduced Number of Components	**M.A. Hosseinzadeh**, M. Sarebanzadeh, E. Babaei, M. Rivera, J. Rothen	Conferencia: IEEE 42th Industrial Electronics Conference, 1, Oct. 2019, https://doi.org/10.1109/IECON.2019.8927577 IEEE Xplore/Scopus Proceedings
15	2019	New Single-Phase Asymmetric Reduced Multilevel Inverter Based on Switched-Diode for Cascaded Multilevel Inverters,	**M.A Hosseinzadeh**, M. Sarbanzadeh, M. Rivera, J. Munoz, A. Vilallon, C. Munoz	Conferencia: IEEE International Conference on Industrial Technology (ICIT), 1, Feb. 2019 https://doi.org/10.1109/ICIT.2019.8755088 IEEE Xplore/Scopus Proceedings
16	2019	Modified H-Bridge Inverter with Reduced Number of Switching Devices	**M.A Hosseinzadeh**, M. Sarbanzadeh, M. Rivera; J. Munoz, P. Wheeler	Conferencia: IEEE International Conference on Industrial Technology (ICIT), 1, Feb. 2019 https://doi.org/10.1109/ICIT.2019.8755220

Nº	Año	Título publicación	Autores	Journal o Conferencia, DOI, Indexación
				IEEE Xplore/Scopus Proceedings
17	2019	New Reduced Switched Multilevel Inverter for Three-Phase Grid-Connected PV System, Performance Evaluation,	**M.A Hosseinzadeh**, M. Sarbanzadeh, J. Munoz, M. Rivera, C. Munoz, A. Vilallon	Conferencia: IEEE International Conference on Industrial Technology (ICIT), 1, Feb. 2019 https://doi.org/10.1109/ICIT.2019.8755112 IEEE Xplore/Scopus Proceedings
18	2019	Selective Harmonic Elimination in Cascaded Multilevel Inverters Using Genetic Algorithm Approach	**M.A Hosseinzadeh,** M. Sarbanzadeh, Y. Salgueiro, M. Rivera, P. Wheeler	Conferencia: IEEE International Conference on Industrial Technology (ICIT), 1, Feb. 2019 https://doi.org/10.1109/ICIT.2019.8755089 IEEE Xplore/Scopus Proceedings
19	2019	Performance Evaluation of Cascaded H-bridge Multilevel Grid-Connected Converter with Model Predictive Control Technique	**M.A Hosseinzadeh,** M. Sarbanzadeh, A. Salehi, M. Rivera;Javier Munoz, Patrick Wheeler	Conferencia: IEEE International Conference on Industrial Technology (ICIT), 1, Feb. 2019 https://doi.org/0.1109/ICIT.2019.8755160 IEEE Xplore/Scopus Proceedings
AÑO 2020				
Nº	Año	Título publicación	Autores	Journal o Conferencia, DOI, Indexación
1	2020	Improved Predictive Control in Multi-Modular Matrix Converter for Six-Phase Generation Systems	**S. Toledo**; E. Maqueda; M. Rivera; R. Gregor; P. Wheeler; C. Romero;	Journal: Energies, 2020, https://doi.org/10.3390/en13102660 WoS (Q3)
2	2020	Active and Reactive Power Control based on Predictive Voltage Control in a Six-Phase Generation System using Modular Matrix Converter	**S. Toledo**; M. Ayala; E. Maqueda; M. Rivera; P. Wheeler; T. Dragicevic; R. Gregor	Congreso: IEEE International Conference on Industrial Technology (ICIT), 2020. https://doi.org/10.1109/ICIT45562.2020.9067285

				IEEE Xplore/Scopus
3	2020	Modulated Predictive Voltage Control of a Direct Matrix Converter	B. Sanabria; **S. Toledo**; D. Caballero; E. Maqueda; J. Rodas; R. Gregor; M. Rivera	Congreso: 2020 IEEE Congreso Bienal de Argentina (ARGENCON) IEEE Xplore
4	2020	Inventory Management at a Chilean Hospital Pharmacy: Case Study of a Dynamic Decision-Aid Tool	**Fabián Silva-Aravena**, Irlanda Ceballos-Fuentealba, Eduardo Álvarez-Miranda	Journal: Mathematics, 2020 https://doi.org/10.3390/math8111962 WoS (Q1)
5	2020	On the data to know the prioritization and vulnerability of patients on surgical waiting lists	**Fabián Silva-Aravena**, Eduardo Álvarez-Miranda, César A. Astudillo, Luis González-Martínez, José G. Ledezma.	Journal: Data in Brief, 2020, https://doi.org/10.1016/j.dib.2020.105310 Scopus (Q4)
6	2020	Multi-objective Evolutionary Algorithms Assessment for Pump Scheduling Problems	**Gutierrez-Bahamondes, J.H**., Salgueiro, Y., Mora-Melia, D., ...Silva-Rubio, S.A., Iglesias-Rey, P.L	Conferencia: IEEE CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies. https://doi.org/10.1109/CHILECON47746.2019.8987982 IEEE Xplore/Scopus Proceedings
7	2020	Power Sharing Control of Islanded AC Microgrid Considering Droop Control and Virtual Impedance	**A. Villalón**, C. Muñoz, R. Aliaga, J. Muñoz, M. Rivera, P. Zanchetta	Conferencia: 2020 IEEE International Conference on Industrial Technology (ICIT) https://doi.org/10.1109/ICIT45562.2020.9067231 Scopus Proceedings
8	2020	Predictive Control for Microgrid Applications: A Review Study	**Villalón, A**.; Rivera, M.; Salgueiro, Y.; Muñoz, J.; Dragičević, T.; Blaabjerg, F.	Journal: Energies 2020, 13, 2454. https://doi.org/10.3390/en13102454 WoS Q3

PUBLICACIONES ESTUDIANTES (2017-2021)
DOCTORADO EN SISTEMAS DE INGENIERÍA

9	2020	The joint use of life cycle assessment and data envelopment analysis methodologies for eco-efficiency assessment: A critical review, taxonomy and future research	**Vásquez-Ibarra, L.**, Rebolledo-Leiva, R.; Angulo-Meza, L; González-Araya, M.; Iriarte, A.	Journal: Science of the Total Environment, 2020 https://doi.org/10.1016/j.scitotenv.2020.139538 WoS Q1
10	2020	"Model-Based Predictive Control Proposal in Three-Phase Inverters".	**R. E. Pérez-Guzman**, M. Rivera, N. Vicencio, P. Wheeler	Conferencia: IEEE 2020 International Conference on Industrial Technology, ICIT 2020, Buenos Aires, Argentina, February 26th - 28th, 2020. https://doi.org/10.1109/ICIT45562.2020.9067217 IEEE Xplore/Scopus Proceedings
11	2020	"Recent Advantages of Predictive Control in Power Converters".	**R. E. Pérez-Guzman**, M. Rivera, P. Wheeler,	Conferencia: IEEE 2020 International Conference on Industrial Technology, ICIT 2020, Buenos Aires, Argentina, February 26th - 28th, 2020. https://doi.org/10.1109/ICIT45562.2020.9067169 IEEE Xplore/Scopus Proceedings
12	2020	"Model Predictive Control Applied to Three-Phase Neutral Point Clamped Inverter".	**R. E. Pérez-Guzman**, F. Herrera, M. Rivera, J. Riveros, P. Wheeler	Conferencia: IEEE 2020 International Conference on Industrial Technology, ICIT 2020, Buenos Aires, Argentina, February 26th - 28th, 2020. https://doi.org/10.1109/ICIT45562.2020.9067298

				IEEE Xplore/Scopus Proceedings
13	2020	"Control Strategy and Communication Architecture for Power Sharing in Microgrids".	**R. E. Pérez-Guzman**, Y. Salgueiro, M. Rivera, P. Wheeler	Conferencia: IEEE 2020 International Conference on Industrial Technology, ICIT 2020, Buenos Aires, Argentina, February 26th - 28th, 2020. https://doi.org/10.1109/ICIT45562.2020.9067288 IEEE Xplore/Scopus Proceedings
14	2020	A Reduced Single-Phase Switched-Diode Cascaded Multilevel Inverter	**M.A. Hosseinzadeh**, M. Sarebanzadeh, M. Rivera, E. Babaei, P. Wheeler	Journal: IEEE Journal of Emerging and Selected Topics in Power Electronics, 13, July 2020, https://doi.org/10.1109/JESTPE.2020.3010793 WoS (Q1)
15	2020	A Multi-Criteria Pen for Drawing Fair Districts: When Democratic and Demographic Fairness Matter	Eduardo Álvarez-Miranda, **Camilo Campos-Valdés**, Maurcio Morales Quiroga, Matías Moreno-Faguett, Jordi Pereira.	Journal: Mathematics,8,9, 27, 2020, https://doi.org/10.3390/math8091404. WoS (Q1)
16	2020	A Review of Control Techniques in Photovoltaic Systems	**Murillo-Yarce, D**.; Alarcón-Alarcón, J.; Rivera, M.; Restrepo, C.; Muñoz, J.; Baier, C.; Wheeler	Journal: Sustainability 2020, 12, 10598, https://doi.org/10.3390/su122410598 WoS (Q2)
17	2020	Current Control of the Coupled-Inductor Buck–Boost DC–DC Switching Converter Using a Model Predictive Control Approach	**C. Restrepo**, G. Garcia, F. Flores-Bahamonde, D. Murillo-Yarce, J. I. Guzman and M. Rivera	Journal: IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, https://doi.org/10.1109/JESTPE.2020.2992622 WoS (Q1)

Nº	Año	Título publicación	Autores	Journal o Conferencia, DOI, Indexación
18	2020	Mamdani type PI-fuzzy controller in a boost converter	**D. Murillo-Yarce,** J. Munoz and C. Restrepo	Conferencia: 2020 IEEE International Conference on Industrial Technology (ICIT), Buenos Aires, Argentina, 2020, pp. 487-492, https://doi.org/10.1109/ICIT45562.2020.9067257 IEEE Xplore/Scopus Proceedings
19	2020	Control of a DC/DC Converter attached to an Asymmetric Multilevel Inverter for Solar Energy Injection to Microgrids	P. Silva, J. Muñoz, R. Aliaga, A. Villalón, D. Rojas and **D. Murillo-Yarce**	Conferencia: 2020 IEEE International Conference on Industrial Technology (ICIT), Buenos Aires, Argentina, 2020, pp. 1127-1132, https://doi.org/10.1109/ICIT45562.2020.9067163 IEEE Xplore/Scopus Proceedings
20	2020	Towards an integrated maturity model of system and E-business applications in an emerging economy	Alejandro Cataldo, César A Astudillo, Jimmy H Gutiérrez-Bahamondes, **Luis González-Martínez**, Robert McQueen	Journal: Journal of theoretical and applied electronic commerce research https://doi.org/10.4067/S0718-18762020000200102 WOS Q3
AÑO 2021				
Nº	Año	Título publicación	Autores	Journal o Conferencia, DOI, Indexación
1	2021	Patients' prioritization on surgical waiting lists: A decision support system	**Fabian Silva-Aravena**, Eduardo Álvarez-Miranda, César A. Astudillo, Luis González-Martínez, José G. Ledezma	Journal: Mathematics Trabajo Enviado, Current Status: Under Review

				WoS (Q1)
2	2021	Raw data on malignant tumours obtained from a Urology unit including the length of stay.	**Fabián Silva-Aravena**, Eduardo Álvarez-Miranda, Paulo J Lisboa, Ian H Jarman.	Journal: Data in brief Trabajo enviado, Current Status: Decision in Process Scopus (Q4)
3	2021	Data extracted in the process leading to deliveries and cesarean sections in a highly complex hospital.	**Fabián Silva-Aravena**, Eduardo Álvarez-Miranda, Eduardo Oliva Andaur, Ricardo Benítez Molina	Journal: Data in brief Trabajo Enviado, Current Status: With Editor Scopus (Q4)
4	2021	Global Local Analysis with Robin Parameters: Applications to Crack Propagation in 2D and 3D Models	I. Fuenzalida-Henriquez, E. Castillo-Ibarra, J. Hinojosa	Conferencia: Numerical Methods and Algorithms in Science and Engineering, Volume 700, 2021 https://doi.org/10.23967/wccm-eccomas.2020.159 Scopus Proceedings
5	2021	Optimizing the search directions of a mixed DDM applied on cracks	I Fuenzalida-Henriquez, L. Peña, C. Astidullo, J. Hinojosa	Journal: Journal Optimization and Engineering Trabajo enviado, Current Status: Under review WoS (Q2)

6	2021	Methodology for pumping station design in water distribution networks considering the optimal flow distribution between sources and capital and operating costs	Gutiérrez-Bahamondes J.H. a; Mora Meliá, D., Ph.D.b; Iglesias-Rey, P.L., Ph.D.c; Martínez-Solano, F.J., Ph.D.d; Salgueiro, Y., Ph.D.e	Journal: Water Resources Management Trabajo enviado, Current Status: Under review WoS (Q1)
7	2021	Design of an auxetic cellular structure with different elastic properties in its three orthogonal directions	**Rodrigo Valle**, Gonzalo Pincheira, Víctor Tuninetti	Journal: Journal of materials: Design and Applications https://doi.org/10.1177/14644207211010209 WoS (Q3)
8	2021	Integration of Life Cycle Assessment and Data Envelopment Analysis using a Free Disposable Hull Approach to Evaluate Farms ' Eco-efficiency	**Vásquez-ibarra**, L., Iriarte, A., Rebolledo-leiva, R., Gonzalez-Araya, M., Angulo-Meza, L.	Conferencia: Proceedings of the 10th International Conference on Operations Research and Enterprise Systems https://doi.org/10.5220/0010240201850191 IEEE Xplore/Scopus Proceedings
9	2021	The impact of candidates' profile and campaign decisions in electoral results: A data analytics approach	**Camilo Campos-Valdés**, Eduardo Álvarez-Miranda, Maurcio Morales Quiroga, Jordi Pereira, Félix Liberona Durán.	Journal: Mathematics Trabajo enviado, Current Status: Under review WoS (Q1)
10	2021	Exact Linearization for the Control of a Rural-Microgrid	**Rodrigo Aliaga**, Marco Rivera, Javier Muñoz, Patrick Wheeler, Jaime Rothen y Andrew Trentin.	Journal: IEEE Transactions on Industrial Electronics

				Trabajo enviado, Current Status: Under review

WoS (Q1) |