UNIVERSITY OF SEVILLE

Academic Transcript

ACADEMIC TRANSCRIPT FOR PEDRO LARA BENITEZ

PhD in Computer Science

2019 - 2022

Publications

- 1. Pedro Lara-Benítez, Manuel Carranza-García, Jorge García-Gutiérrez, and José C. Riquelme. "Asynchronous dual-pipeline deep learning framework for online data stream classification." Integrated Computer-Aided Engineering, vol. 27, no. 2, pp. 101-119, DOI:10.3233/ICA-200617, Feb 2020.
- Pedro Lara-Benítez, Manuel Carranza-García, José M. Luna-Romera, José C. Riquelme. "Temporal Convolutional Networks Applied to Energy-Related Time Series Forecasting." Applied Sciences., vol. 10, pp 2322, DOI:10.3390/app10072322, March 2020.
- 3. Pedro Lara-Benítez, Manuel Carranza-García, Francisco Martínez-Álvarez, and José C. Riquelme. "On the performance of deep learning models for time series classification in streaming." 15th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2020), vol. 1268, pp 144-154, Springer International Publishing, DOI:10.1007/978-3-030-57802-2 14, Aug 2020.
- Pedro Lara-Benítez, Manuel Carranza-García, and José C. Riquelme. "An Experimental Review on Deep Learning Architectures for Time Series Forecasting." International Journal of Neural Systems, DOI:10.1142/S0129065721300011, Nov 2020.
- Manuel Carranza-García, Jesús Torres-Mateo, Pedro Lara-Benítez, and Jorge García-Gutiérrez. "On the performance of one-stage and two-stage object detectors in autonomous vehicles using camera data." Remote Sensing, vol. 13, no 1, p. 89, DOI:10.3390/rs13010089, Nov 2020.
- Manuel Carranza-García, Pedro Lara-Benítez, Jorge García-Gutiérrez, and José C. Riquelme. "Enhancing Object Detection in Autonomous Vehicles by Optimizing Anchor Generation and Addressing Class Imbalance." Neurocomputing, vol. 449, p. 229-244, DOI:10.1016/j.neucom.2021.04.001, Apr 2021.
- 7. Pedro Lara-Benítez, Luis Gallego-Ledesma, Manuel Carranza-García, and José M Luna-Romera. "Evaluation of the Transformer Architecture for Univariate Time Series Forecasting." Advances in Artificial Intelligence. CAEPIA 2021. Lecture Notes in Computer Science, vol 12882, p. 106-115, Springer. DOI:10.1007/978-3-030-85713-4 11, Sep 2021
- 8. Manuel Carranza-García, Pedro Lara-Benítez, José María Luna-Romera, and José C Riquelme. "Feature Selection on Spatio-Temporal Data for Solar Irradiance Forecasting." 16th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2021) Advances in Intelligent Systems and Computing, vol 1401, p. 654-664, DOI: 10.1007/978-3-030-87869-6_62 Sep 2021.
- Pedro Lara Benítez, Manuel Carranza García, David Gutiérrez Avilés, José Cristóbal Riquelme Santos. "Data streams classification using deep learning under different speeds and drifts." Logic Journal of the IGPL, DOI:10.1093/jigpal/jzac033, Feb 2022.
- 10. Pedro Lara-Benítez, Manuel Carranza-García, José M. Luna-Romera, José C. Riquelme. "Short-Term Solar Irradiance Forecasting in Streaming with Deep Learning." Under review in Neurocomputing, May 2022.

Thesis title Time-series forecasting in streaming with deep learning.

Thesis Director Dr. José C. Riquelme Santos

Start date: 10/2019 End date: 07/2022

ACADEMIC TRANSCRIPT FOR PEDRO LARA BENITEZ

Master's degree in Software Engineering: Cloud, Data Science and IT Management

2018 - 2019

Code	Course	Year	Marks		Type	Cr	С
51790006	Fundamentals of Software Engineering for Cloud	2018-19	Good	8.9	COMPULSORY	5	1
	Systems						
51790005	Fundamentals of Data Engineering	2018-19	Excellent	9	COMPULSORY	5	1
51790004	Fundamentals of IT Management and Professional	2018-19	Excellent	9	COMPULSORY	5	1
	Practice						
51790025	Business Information Systems	2018-19	Pass	6	OPTIONAL	2	1
51790020	Machine Learning Engineering	2018-19	Good	8.3	OPTIONAL	5	1
51790026	Information visualization techniques	2018-19	Excellent	9	OPTIONAL	2	1
51790021	Introduction to Research	2018-19	Excellent	9	OPTIONAL	2	1
51790018	Big Data	2018-19	Excellent	9.5	OPTIONAL	5	1
51790017	Analysis of unstructured information	2018-19	Excellent	9.5	OPTIONAL	5	1
51790019	Data Science	2018-19	Excellent	10	OPTIONAL	5	1
51790013	Architectures for Software as a Service	2018-19	Excellent w/	10	OPTIONAL	5	1
			Honors				
51790012	Public infrastructures serving the administration	2018-19	Excellent	10	OPTIONAL	2	1
51790028	Final Year Project	2018-19	Excellent	9.7	DISSERTATION	12	1

Final average grade: 9.26/10 End date: 24/07/2019

ACADEMIC TRANSCRIPT FOR PEDRO LARA BENITEZ

Bachelor's degree in Computer Engineering – Software Engineering

2014 - 2018

Code	Course	Year	Marks		Type	Cr	С
2050003	Digital Electronic Circuits	2014-15	Pass	6.7	CORE	6	1
2050004	Physical Fundamentals of Computer Science	2014-15	Good	7	CORE	6	1
2050006	Business Administration	2014-15	Good	7.2	CORE	6	1
2050008	Statistics	2014-15	Good	7.5	CORE	6	1
2050007	Linear and Numerical Algebra	2014-15	Good	8	CORE	6	1
2050001	Programming Fundamentals	2014-15	Exxcellent	9	CORE	12	1
2050002	Infinitesimal and Numerical Calculus	2014-15	Excellent	9	CORE	6	1
2050009	Computer Structure	2014-15	Excellent	9	CORE	6	1
2050005	Introduction to Discrete Mathematics	2014-15	Excellent	9	CORE	6	1
2050015	Computer Architecture	2015-16	Good	8	COMPULSORY	6	2

2050017	Discrete Mathematics	2015-16	Excellent	9	COMPULSORY	6	2
2050016	Software Architecture and Integration Software	2015-16	Excellent	9.4	COMPULSORY	6	2
2050013	Computer Networks	2015-16	Excellent w/ Honors	9.5	COMPULSORY	6	2
2050014	Operating Systems	2015-16	Excellent w/ Honors	9.6	COMPULSORY	6	2
2050011	Introduction to Software Engineering and	2015-16	Excellent w/	9.9	COMPULSORY	12	2
	Information Systems		Honors				
2050012	Computer Logic	2015-16	Excellent w/ Honors	10	COMPULSORY	6	2
2050010	Analysis and Design of Data and Algorithm	2015-16	Excellent w/ Honors	10	COMPULSORY	12	2
2050019	Software Process and Management y Gestión	2016-17	Pass	5.4	COMPULSORY	12	3
2050025	Visualization, Modeling and Graphics	2016-17	Good	8	COMPULSORY	6	3
2050023	Network Architecture, Protocols, and Services	2016-17	Good	8.5	COMPULSORY	6	3
2050024	Artificial Intelligence	2016-17	Excellent	9	COMPULSORY	6	3
2050022	Multimedia Signal Processing	2016-17	Excellent w/ Honors	9.1	COMPULSORY	6	3
2050020	Requirements Engineering	2016-17	Excellent	9.5	COMPULSORY	6	3
2050021	Modeling and Numerical Simulation	2016-17	Excellent w/ Honors	10	COMPULSORY	6	3
2050018	Design and Testing	2016-17	Excellent w/ Honors	10	COMPULSORY	12	3
2050032	Evolution of Configuration Management	2017-18	Good	7	COMPULSORY	6	4
2050035	Planning and Management of IT Projects	2017-18	Good	7	COMPULSORY	6	4
2050036	Technology, Computer Science and Society	2017-18	Good	7	OPTIONAL	6	4
2050029	Soft Computing Applications	2017-18	Good	7.5	OPTIONAL	6	4
2050027	Intelligent Information Access	2017-18	Good	7.5	OPTIONAL	6	4
2050041	System Optimization	2017-18	Good	7.5	OPTIONAL	6	4
2050039	Software Engineering and Professional Trainship	2017-18	Excellent	9.5	COMPULSORY	6	4
2050045	Final Year Project	2017-18	Excellent	9	DISSERTATION	12	4

Final average grade: 8.55/10 End date: 25/09/2018

Spanish alphanumeric Marks	Translated as	Soanish Marks		
MATRICULA DE HONOR (MH)	Excellent w/ Honors	10		
SOBRESALIENTE (S)	Excellent	9.0-10		
NOTABLE (n)	Good	7.0-8.9		
APROBADO (A)	Pass	5.0-6.9		
SUSPENSO (SS)	Fail	0-4.9		