

Adán José-García

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Research Interests

- Data Clustering, Multi-view Clustering, Clustering Validation
- Supervised Machine Learning
- Evolutionary Computation, Nature-Inspired Metaheuristics
- Single- and Multi-objective Optimization

Education

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| Ph.D. in Computer Science | 2013 – 2017 |
| <i>Center for Research and Advanced Studies of the National Polytechnic Institute (Cinvestav)</i> | México |
| Master in Computer Science | 2010 – 2012 |
| <i>Center for Research and Advanced Studies of the National Polytechnic Institute (Cinvestav)</i> | México |
| Bachelor of Engineering | 2005 – 2010 |
| <i>Technological Institute of Culiacan</i> | México |

Professional Experience

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| Postdoctoral Research Fellow | 2019 – now |
| <i>Department of Computer Science, University of Exeter</i> | United Kingdom |
| Postdoctoral Research Associate | 2018 – 2020 |
| <i>Alliance Manchester Business School, University of Manchester</i> | United Kingdom |
| Part-time Lecturer | 2017 – 2018 |
| <i>Regional Centre for Teacher Training and Educational Research, CRETAM</i> | México |
| Technical Team Leader | 2012 – 2013 |
| <i>Svam International</i> | México |

Publications

* In addition to the listed refereed manuscripts, two journal articles are under review. Please, visit my [website](#) to find out more details about my papers under review, in preparation and technical reports.

JCR-indexed Journal Articles.....

[1]: A. José-García, J. Handl, W. Gómez-Flores, M. Garza-Fabre. *An Evolutionary Many-objective Approach to Multiview Data Clustering*. Applied Soft Computing, 2020, (minor reviews).

[2]: A. Ezugwu, A. Shukla, A. José-García, et al. *Automatic Clustering Algorithms: A Systematic Review and Bibliometric Analysis of Relevant Literature*. Neural Computing and Applications, 2020. DOI: 10.1007/s00521-020-05395-4

[3]: A. José-García, W. Gómez-Flores. *Automatic Clustering Using Nature-Inspired Metaheuristics: A Survey*. Applied Soft Computing, (41): 192–213, 2016. DOI: 10.1016/j.asoc.2015.12.001

[4]: A. José-García, I. Lopez-Arevalo, V. J. Sosa-Sosa. *A Rule-based Approach for Topic Maps Learning from Relational Databases*. Expert Systems 32 (5): 609–621, 2015. DOI: 10.1111/exsy.12113

Conference Proceedings.....

[1]: **A. José-García**, J. Handl. On the Interaction between Distance Functions and Clustering Criteria in Multi-objective Clustering. *The 2021 International Conference on Evolutionary Multi-Criterion Optimization (EMO)*. Accepted for publication in EMO 2021 Conference.

[2]: **A. José-García**, J. Handl, W. Gómez-Flores, M. Garza-Fabre. Many-view Clustering: An Illustration Using Multiple Dissimilarity Measures, In "*GECCO'19: Proc. of the International Conference on Genetic and Evolutionary Computation*", p. 213–214, 2019.

[3]: **A. José-García**, W. Gómez-Flores. Evolutionary Clustering Using Multi-Prototype Representation and Connectivity Criterion. In "*MCPR'17: Proc. of the 9th Mexican Conference on Pattern Recognition*", p. 63–73, 2017.

[4]: **A. José-García**, I. Lopez-Arevalo, V. J. Sosa-Sosa. Building Topic Maps from Relational Databases. In "*CCE'12: Proc. of the 9th International Conference on Electrical Engineering, Computing Science and Automatic Control*", p. 294–299, 2012.

[5]: **A. José-García**, H. Romero-Monsivais, C. Hernández, A. Rodríguez-Cristerna, I. Rivera-Islas, J. Torres-Jiménez. A Simulated Annealing Algorithm for the Problem of Minimal Addition Chains. In "*EPIA'11: Proc. of the 15th Portuguese Conference on Artificial Intelligence*", p. 311–325, 2011.

[6]: A. Rodríguez-Cristerna, J. Torres-Jiménez, H. Romero-Monsivais, C. Hernández, I. Rivera-Islas, **A. José-García**. A Mutation-Selection Algorithm for the Problem of Minimum Brauer Chains. In "*MICAI'11: Proc. of the 10th Mexican International Conference on Artificial Intelligence*", p. 107–118, 2011.

[7]: R. Zatarain-Cabada, M. L. Barrón-Estrada, V. Ponce Angulo, **A. José-García**. A Framework for Creating, Training, and Testing Self-Organizing Maps for Recognizing Learning Styles. In "*Edutainment'10: Proc. of the 5th International Conference on E-learning and Games*", p. 53–64, 2010.

[8]: R. Zatarain-Cabada, M. L. Barrón-Estrada, V. Ponce Angulo, **A. José-García**, C. A. Reyes García. Identification of Felder-Silverman Learning Styles with a Supervised Neural Network. In "*ICIC'10: Proc. of the 6th International Conference on Intelligent Computing*", p. 479–486, 2010.

[9]: R. Zatarain-Cabada, M. L. Barrón-Estrada, V. Ponce Angulo, **A. José-García**, C. A. Reyes García. A Learning Social Network with Recognition of Learning Styles Using Neural Networks. In "*MCPR'10: Proc. of the 2nd Mexican Conference on Pattern Recognition*", p. 199–209, 2010.

Publications Under Review.....

A. José-García, W. Gómez-Flores. A comparative study of cluster validity indices for automatic data clustering using differential evolution. *Neurocomputing*.

A. José-García, R. Everson, et al. C3-IoC: A career guidance system for assessing student skills using machine learning and network visualisation. *International Journal of Artificial Intelligence in Education*.

Awards and Achievements

- **2019 – 2022**: Member of the Mexican National System of Researchers: Candidate Level
- **2018 – 2019**: CONACYT Postdoctoral Fellowship
- **2013 – 2017**: CONACYT Postgraduate Fellowship
- **2010**: First Place in the Mexican National Fair of Science and Engineering 2010, with the project: "An adaptive social learning network with recognition of learning styles."
- **2007**: Professional IBM Certification in Object-Oriented Analysis and Design (ID: P39LAM5071)
- **2007**: Sun Microsystems Certified Programmer for Java 2 Platform 1.4 (ID: P68LAM50A5)

Teaching and Mentoring

Teaching Experiences.....

- **2020 – now:** Fundamentals of Machine Learning (COM1011)
Teaching Assistant, Autumn Term, University of Exeter, United Kingdom
- **2017 – 2018:** Educational technologies, and Online productivity tools for education
Lecturer, Regional Centre for Teacher Training and Educational Research, México

Academic Supervision (Software Engineering Projects).....

- **2020 – now:** A Cognitive Behavioural Therapy Mobile Application
Mentoring and Project Supervisor, IoC Student Enterprise, University of Exeter
- **2020 – now:** A Telematics Driving Behaviour Application
Mentoring and Project Supervisor, IoC Student Enterprise, University of Exeter

Invited Talks

- **Oct 2019:** An Evolutionary Many-objective Approach to Multiview Data Clustering with Application to Breast Lesions Classification. *60 mins Conference*. Cinvestav-IPN, Tamaulipas, Mexico.
- **March 2019:** Multi-view Data Clustering An Illustration Using Multiple Dissimilarity Measures. *45 mins Conference*. Alliance Manchester Business School. The University of Manchester, UK.
- Regularly speaker in non-scientific talks to undergraduate students in Mexico.

Professional Services

Memberships.....

2019 – now: ACM professional member

Reviewer of Journals.....

- IEEE Journals: Transactions on Evolutionary Computation | Transactions on Cybernetics
- Elsevier Journals: Computers & Operations Research | Heliyon
- WILEY Journal: Computational Intelligence

Computer Skills

Programming: MATLAB, C/C++, Python, Java

Typography: L^AT_EX, Markdown, LibreOffice/OpenOffice, Microsoft Office

Miscellaneous: Git, MPI, CUDA, PThreads, numpy, dlib, R, HTML, CSS, Javascript

References

- **Julia Handl** | julia.handl@manchester.ac.uk | (+44) 01613-063333 (Ext: 63333)
Professor in Decision Sciences, Alan Turing Fellow
Alliance Manchester Business School, University of Manchester
- **Richard Everson** | richard.everson@exeter.ac.uk | (+44) 01392-724065 (Ext: 4065)
Professor of Machine Learning
Department of Computer Science, University of Exeter
- **Wilfrido Gómez-Flores** | wgomez@cinvestav.mx | (+52) 834-107-0249
Associate Professor of Machine Learning
Department of Computer Science, Campus Tamaulipas, Cinvestav-IPN