PERSONAL INFORMATION

Leticia Arco García

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Sex Female | Date of birth 01/06/1978 | Nationality Cuban

STUDIES APPLIED FOR

**Post-doctorate, Eureka Sustainable Development Project
Erasmus Mundus Programme**

WORK EXPERIENCE

September 2008 - present

Vice-dean of research and post degree

Faculty of Mathematics, Physics and Computer Science, Central University of Las Villas, Cuba.

- Organize post-graduate courses
- Promote, control and define projects
- Organize and control the research activities

August 2001 - present

Professor

Computer Science Department of the faculty of Mathematics, Physics and Computer Science, Central University of Las Villas, Cuba.

- Member of 2 doctoral programme committee and teacher of 7 master programmes
- Responsible of Computational Mathematics topics
- Member of Artificial Intelligence Laboratory
- Teach: Discrete Mathematics, Design and Analysis of Algorithms, Artificial Intelligence, Information Systems, Machine Learning, Pattern Recognition, Environmental Management Information Systems, Knowledge Management and Rough Set Theory for Decision Making.
- Research: Unsupervised Learning (Clustering), Rough Set Theory, Text Mining and Opinion Mining.

Business or sector High-education institution

EDUCATION AND TRAINING

January 2005 – January 2009

PhD Thesis – Title: Clustering by Differential Betweenness and its Validation with Rough Sets

Central University of Las Villas, Cuba.

Advisers: Prof. Dr. Rafael Bello, Central University of Las Villas, Cuba
Prof. Dr. Rudolf Kruse, University of Magdeburg, Germany
PhD thesis was supported by a project among University of Oldenburg (Germany), University of Magdeburg (Germany) and Central University of Las Villas (Cuba).
Best PhD Thesis in the Technical Sciences area. National Committee of Scientific Degrees, Cuba, 2009.

January 2004 – July 2005

Master in Computer Science – Thesis Title: Models for Document Clustering and Summarization from a Vector Space Representation of Corpus

Central University of Las Villas, Cuba.

September 1996 – July 2001

Bachelor of Science in Computer Science - Thesis Title: Machine Learning for Fuzzy Rules Generation

Central University of Las Villas, Cuba.

PERSONAL SKILLS

Mother tongue Spanish

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
C1	C2	B2	B2	C1
Portuguese				
B2	C2	B1	B1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills Good communication skills gained through my experience in teaching and research labours, as well as the responsibility that I take up organising the post degree and research tasks in the faculty.

Organisational / managerial skills The organisational/managerial skills and teamwork have been acquired by the research labour and the responsibility that I take on:
▪ responsible of research and post degree in the faculty of Mathematics, Physics and Computer Science
▪ leadership in unsupervised learning and text mining (currently responsible for a team of 5 researchers)
▪ leadership in Computational Mathematics subjects
▪ adviser of bachelor and master thesis

Computer skills ▪ Competent with most Microsoft Office programmes, email and internet.
▪ Programming languages: Java, Matlab, R and Pascal.
▪ Competent with machine learning and data mining tools.

Driving licence ▪ B

ADDITIONAL INFORMATION

Publications ▪ Aggregation of Similarity Measures for Ortholog Detection, Validation with Measures based on Rough Set Theory. Revista Computación y Sistemas. (Acepted for publication, 2014)
▪ Conjunto de herramientas que auxilian el desarrollo de sistemas gestores de información en dominios textuales. Revista Ciencias Matemáticas. Vol. 26. No. 2 (2012).
▪ New Textual Representation using Structure and Contents. Research in Computing Science, Vol. 54, Advances in Softcomputing algorithms, pp. 117-130 (2011).
▪ Knowledge Discovery using Rough Set Theory. Advances in Machine Learning I. Studies in Computational Intelligence Vol. 262/2010, Springer-verlag, Berlin, Heidelberg pp. 367-384 (2010).
▪ Differential Betweenness in Complex Networks Clustering. Progress in Pattern Recognition, Image Analysis and Applications. LNCS 5197. pp. 227-234 (2008).

Seminars ▪ Discrete Mathematics, Artificial Intelligence, Machine Learning, Information Systems, Pattern Recognition and Environmental Management Information Systems.

Honours and awards ▪ 2 prizes granted by the Academic of Sciences of Cuba.
▪ 6 prizes granted by the Minister of Science, Technology and Environment, Cuba
▪ Best PhD Thesis in the Technical Sciences area, prize granted by the National Committee of Scientific Degrees, Cuba, 2009.

Memberships ▪ Young member of the Academy of Sciences of Cuba, period 2012-2020
▪ Laboratory of Artificial Intelligence, Centre of Studies of Informatics, Central University of Las Villas, Cuba.
▪ Cuban Society of Mathematics and Computer Science (Sociedad Cubana de Matemática y Computación), Cuba.
▪ National Association of Pattern Recognition (Asociación Nacional de Reconocimiento de Patrones), Cuba.