CURRICULUM VITAE

PERSONAL DATA

Last name Romero Zaliz

Name Rocío Celeste

Birth date June 6, 1977

Address Departamento de Ciencias de la Computación e Inteligencia Artificial
Escuela Técnica Superior de Ingenería Informática
c/ Daniel Saucedo Aranda, s/n. 18071
Granada, España

E-mail rocio@decsai.ugr.es

Phone +34-958240468

EDUCATION

PhD in Informatics

Program: *"Design, Analysis and Applications of Intelligent Systems"*
Department of Computer Science an Artificial Intelligence (DECSAI)
E.T.S. Ingeniería Informática
Universidad de Granada, España
September 2005

M.S. in Computer Science

Department of Computer Science Facultad de Ciencias Exactas y Naturales
Universidad de Buenos Aires, Argentina
November 2001

B.S. in Computer Science

Department of Computer Science Facultad de Ciencias Exactas y Naturales
Universidad de Buenos Aires, Argentina
August 1999

TEACHING EXPERIENCE

Assistant Professor

Courses: *Data Structures, Administration of Resources in Informative Units* Department of Computer Science an Artificial Intelligence (DECSAI)
E.T.S. Ingeniería Informática
Universidad de Granada, España
Spring Term 2006 - present.

Graduate Instructor

Courses: *Computer Organization I, Paradigms of Programing Languages*
Department of Computer Science
Facultad de Ciencias Exactas y Naturales

Universidad de Buenos Aires, Argentina
Spring Term 2002 - Fall Term 2005

Master Course: *DM & KD in science and technology*
Data Mining Master - Universidad de Buenos Aires, Argentina - 2004

Master Course: *Computational biology*
Medical Molecular Biology Master - Universidad de Buenos Aires, Argentina - 2004, 2005

Teaching Assistant

Courses: *Paradigms of Programing Languages, Machine Learning, Algorithms and Data Structures II*
Fall Term 2000 - Fall Term 2001

PUBLICATIONS

Journals

C. Rubio-Escudero, R. Romero-Zaliz, O. Cordón, O. Harari, C. del Val, and I. Zwir. Optimal selection of microarray analysis methods using a conceptual clustering algorithm. In Franz Rothlauf et al, editor, *Applications of Evolutionary Computing: EvoWorkshops 2006: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoINTERACTION, EvoMUSART, and EvoSTOC, Budapest, Hungary, April 10-12, 2006. Proceedings*, volume 3907, chapter EvoBIO Contributions, pages 172 – 183. Springer Berlin / Heidelberg, 2006.

R. Romero-Zaliz, C. Rubio-Escudero, O. Cordón, O. Harari, C. del Val, and I. Zwir. Mining structural databases: An evolutionary multi-objetive conceptual clustering methodology. In Franz Rothlauf et al, editor, *Applications of Evolutionary Computing: EvoWorkshops 2006: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoINTERACTION, EvoMUSART, and EvoSTOC, Budapest, Hungary, April 10-12, 2006. Proceedings*, volume 3907, chapter EvoBIO Contributions, pages 159 – 171. Springer Berlin / Heidelberg, 2006.

V. Cotik, R. Romero-Zaliz, and I. Zwir. A hybrid promoter anaysis methodology for prokaryotic genomes. *Special issue on "Bioinformatics", Fuzzy Sets and Systems*, 152(1):83–102, 2005.

I. Zwir, R. Romero-Zaliz, and E. Ruspini. Automated biological sequence description by genetic multiobjective generalized clustering. In Faramarz Valafar, editor, *Techniques in bioinformatics and medical informatics*, volume 980, pages 65–82, 2002.

National Conferences

Extracción de conocimiento en repositorios biológicos estructurados, Actas del BIOMAT'05. Academia Nacional de Letras de Córdoba (Argentina), 2006. In Press.

R. Romero-Zaliz, I. Zwir, and F. Herrera. Búsqueda dispersa multiobjetivo de promotores en secuencias de adn. In *MAEB'04 (Tercer congreso español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados)*, pages 141–147, Córdoba, España, Febrero 2004.

R. Romero Zaliz and I. Zwir. Analysis of multiobjective ga features in biological sequence recognition. In *AEB'02 (Primer congreso español de algoritmos evolutivos y bioinspirados)*, pages 175–182, Mérida, España, February 2002.

R. Romero Zaliz, I. Zwir, and I. Loiseau. Using multiobjective genetic algorithms for biological sequence pattern recognition. In *30 JAIIO (Jornadas Argentinas de Informática e Investigación Operativa) - ASAI 2001 (Simposio Argentino de Inteligencia Artificial)*, pages 117–129, Buenos Aires, Argentina, September 2001.

International Conferences R. Romero Zaliz, O. Cordón, C. Rubio, and I. Zwir. A multiobjective evolutionary fuzzy system for promoter discovery in *e. coli*. In *I International Workshop on Genetic Fuzzy Systems*, pages 68–75, Granada, España, March 2005.

R. Romero Zaliz and I. Zwir. Automated biological sequence description and recognition by a localized multiobjective genetic algorithm. In *FEA 2002 (The Fourth International Workshop on Frontiers in Evolutionary Algorithms)*, pages 586–589, North Carolina, USA, March 2002.

R. Romero Zaliz, I. Zwir, and I. Loiseau. Automated biological sequence description and recognition: Studies of quality and extension features. In *Proceedings of the 2001 International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences (METMBS'2001)*, pages 132–138, Las Vegas, USA, 2001.

Book Chapters R. Romero-Zaliz, I. Zwir, and E. Ruspini. *Applications of Multi-Objective Evolutionary Algorithms*, chapter Generalized Analysis of Promoters (GAP): A method for DNA sequence description, pages 427–450. World Scientific, 2004.

AWARDS

Student Research Fellowship (Beca Estímulo)

Secretaria de Ciencia y Técnica, Universidad de Buenos Aires (UBACyT)
Title: "Algorithms for DNA repeated sequence recognition"
Tutor: Dr. I. Loiseau
Institution: Department of Computer Science. Facultad de Ciencias Exactas y Naturales. Universidad de Buenos Aires, Argentina.
Date: October 2000 - March 2002

FOMEC Scholarship

Provides funds for short term visits to academic institutions outside Argentina.
Institution: Department of Computer Science an Artificial Intelligence (DECSAI). E.T.S. Ingeniería Informática. Universidad de Granada, España.
Date: 16/05/2002 - 27/06/2002

PhD Scholarship

Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Secretaría de Ciencia, Tecnología e Innovación Productiva, Ministerio de Educación, Ciencia y Tecnología, Presidencia de la Nación, Argentina.
Title: "Distributed multi-objective genetic algorithms for pattern recognition in bioinformatics"
External tutor: Dr. F. Herrera Triguero
Internal tutor: Dr. I. Zwir

External institution: Department of Computer Science an Artificial Intelligence (DECSAI). E.T.S. Ingeniería Informática. Universidad de Granada, España.
Internal institution: Department of Computer Science. Facultad de Ciencias Exactas y Naturales. Universidad de Buenos Aires, Argentina.
Date: September 2002 - August 2006

TUTOR IN MASTER THESIS

Aplicación de clustering generalizado al problema de gene ontology

Student: Juan Pablo Grassi
Tutors: I. Zwir, R. Romero Zaliz
Date: December 2005
Department of Computer Science. Facultad de Ciencias Exactas y Naturales. Universidad de Buenos Aires, Argentina.

LANGUAGES

English Good spoken and written skills in English.

Spanish Native.