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EDUCATION

- PhD. In Computer Science** 2005-Present
Artificial Intelligence Department, University of Granada (Spain)
Ph. D. Thesis Title: "Predicting prokaryotic and eukaryotic gene networks by fusing domain knowledge with conceptual clustering algorithms"
Advisor: Dr. Igor Zwir
- Project Management (Unfinished)** 2004
Ryerson University, Toronto, Canada
- Master in Computer Science** 1999
Department of Computer Science, University of Buenos Aires, Argentina.
Master Thesis: "Minimal scalable full-adaptive deadlock-free worm-hole routing algorithms for Bruijn topologies"
Advisor: Gustavo Pifarré
- Bachelor in Computer Science** 1993
Department of Computer Science, University of Buenos Aires, Argentina.

PUBLICATIONS

- Igor Zwir, **Oscar Harari**, and Eduardo A. Groisman. "**GENE PROMOTER SCAN (GPS) METHODOLOGY FOR IDENTIFYING AND CLASSIFYING CO-REGULATED PROMOTERS**". *Methods in Enzymology - Two-Component Signaling Systems, Part A* Vol. 422. 2007. Academic Press – Elsevier Inc.
 - Rocio Romero Zaliz, **Oscar Harari**, Cristina Rubio Escudero, and Igor Zwir. "**IDENTIFYING THE PROMOTER FEATURES GOVERNING DIFFERENTIAL KINETICS OF CO-REGULATED GENES USING FUZZY EXPRESSIONS**". Proceedings of IEEE International Conference on Fuzzy Systems 2007. London, UK.
 - Rocio Romero Zaliz, **Oscar Harari**, Cristina Rubio Escudero, and Igor Zwir. "**IDENTIFYING THE PROMOTER FEATURES GOVERNING DIFFERENTIAL KINETICS OF CO-REGULATED GENES USING FUZZY EXPRESSIONS**". Proceedings of IEEE International Conference on Fuzzy Systems 2007. pp 1167-1173. London, UK.
 - Christopher Previti, **Oscar Harari**, and Coral del Vall. "**MINING AND PREDICTING CPG ISLANDS**". Proceedings of IEEE International Conference on Fuzzy Systems 2007. pp 1216-1221. London, UK.
 - **Oscar Harari**, Igor Zwir. "**DISSECTING NETWORK MOTIFS BY IDENTIFYING PROMOTER FEATURES THAT GOVERN DIFFERENTIAL GENE EXPRESSION**". Proceedings of Summer Computer Simulation Conference 2007 (SCSC'07). San Diego, California, USA.
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- **Oscar Harari**, Cristina Rubio-Escudero, Igor Zwir, “**TARGETING DIFFERENTIALLY CO-REGULATED GENES BY MULTIOBJECTIVE AND MULTIMODAL OPTIMIZATION**”. *Evolutionary Computation, Machine Learning and Data Mining in Bioinformatics - Lecture Notes in Computer Science*. Vol. 4447 – pp. 68-77. 2007. Springer – Verlag Berlin, Heidelberg.
- Cristina Rubio-Escudero, **Oscar Harari** , Oscar Córdón, Igor Zwir. “**MODELING GENETIC NETWORKS: COMPARISON OF STATIC AND DYNAMIC MODELS**”. *Evolutionary Computation, Machine Learning and Data Mining in Bioinformatics - Lecture Notes in Computer Science*. Vol.4447 –pp. 78-89. 2007. Springer – Verlag Berlin, Heidelberg
- **Oscar Harari**, Coral del Val, and Igor Zwir. “**FUSING GENETIC KNOWLEDGE BY DYNAMIC LEARNING REGULATORY PROFILES: VISUALIZING THE STRATEGY**”, *Current Research in Information Sciences and Technologies Multidisciplinary approaches to global information systems*, Vol. 1 – 47-51. 2006. Open Institute of Knowledge.
- Cristina Rubio-Escudero, Coral del Val, Oscar Córdón, **Oscar Harari**, Igor Zwir, “**DECISION MAKING ASSOCIATION RULES FOR RECOGNITION OF DIFFERENTIAL GENE EXPRESSION PROFILES**”. *Intelligent Data Engineering and Automated Learning - Lecture Notes in Computer Science*. Vol.4224 – pp. 1137-1149. 2006. Springer – Verlag Berlin, Heidelberg
- **Oscar Harari**, Rocio Romero-Záliz, Cristina Rubio-Escudero, Igor Zwir, “**FUSION OF DOMAIN KNOWLEDGE FOR DYNAMIC LEARNING IN TRANSCRIPTIONAL NETWORKS**”. *Intelligent Data Engineering and Automated Learning - Lecture Notes in Computer Science*. Vol.4424 –pp.1067-1078. 2006. Springer – Verlag Berlin, Heidelberg
- R. Romero-Zaliz, C. Rubio-Escudero, O. Córdón, **O. Harari**, C. del Val, I. Zwir. “**MINING STRUCTURAL DATABASES: AN EVOLUTIONARY MULTI-OBJECTIVE CONCEPTUAL CLUSTERING METHODOLOGY**”. *Applications of Evolutionary Computing - Lecture Notes in Computer Science*. Vol.3907 – pp. 159-171. 2006. Springer – Verlag Berlin, Heidelberg.
- C. Rubio-Escudero, R. Romero-Zaliz, O. Cordon, **O. Harari**, C. del Val, and I. Zwir, “**OPTIMAL SELECTION OF MICROARRAY ANALYSIS METHODS USING A CONCEPTUAL CLUSTERING ALGORITHM**” *Applications of Evolutionary Computing, Lecture Notes in Computer Science*. Vol. 3907 - pp. 172-183. 2006. Springer-Verlag Berlin, Heidelberg

CONGRESSES AND CONFERENCES

- **IEEE International Conference on Fuzzy Systems** 2007
Rocio Romero Zaliz, Oscar Harari, Cristina Rubio Escudero and Igor Zwir “**IDENTIFYING THE PROMOTER FEATURES GOVERNING DIFFERENTIAL KINETICS OF CO-REGULATED GENES USING FUZZY EXPRESSIONS**”. Oral presentation, London, UK
- **Bioinformatics Session of the Evolutionary Computation Conference** 2007
Oscar Harari, Cristina Rubio-Escudero, Igor Zwir “**TARGETING DIFFERENTIALLY CO-REGULATED GENES BY MULTIOBJECTIVE AND MULTIMODAL OPTIMIZATION**”. Oral presentation, Valencia, Spain

- **7th. Spanish Symposium on Bioinformatics and Computacional Biology.** 2006
Oscar Harari, and Igor Zwir. “**IDENTIFYING THE PROMOTER FEATURES GOVERNING DIFFERENTIAL EXPRESSION OF CO-REGULATED GENES**”. Poster presentation. Zaragoza, Spain
- **I Internacional Conference on Multidisciplinary Information Sciences** 2006
Oscar Harari, Coral del Val, Igor Zwir. “**FUSING GENETIC KNOWLEDGE BY DYNAMIC LEARNING REGULATORY PROFILES: VISUALIZING THE STRATEGY**”. Oral presentation, Mérida, Spain
- **ESF-EMBO: Joining the Strengths of Structural – and System Biology to reach ‘Synthetic’ Biology** 2006
Oscar Harari, and Igor Zwir. “**IDENTIFYING THE PROMOTER FEATURES GOVERNING DIFFERENTIAL EXPRESSION OF CO-REGULATED GENES WITH SIMILAR NETWORK MOTIFS**”. Invited speaker, Barcelona, Spain

SCOLARSHIPS AND AWARDS

BECAS MAE-AECI 2006-Present
Scholarship for Graduate Studies of foreigners in Spanish Universities.
Agencia Española de Cooperación Internacional, Ministerio de Asuntos Exteriores,

Travel grants for IEEE FUZZ-IEEE 2007 conference 2007

Summer Computer Simulation Conference 2007 Best paper award. 2007

MASTER THESIS ADVISOR

Marcelo Santos 2006
Co-directed thesis entitled: “Learning Robust Dynamic Networks in Bacterial Genomes”
Computer Science Department, University of Buenos Aires, Argentina

RESEARCH PROJECTS

Project title: Identification of complex information in Biology: from data collections to knowledge-based networks (TIN2006-12879), 2006- 2009
Financial provider: Programa Nacional de Cooperación Internacional de Ciencia y Tecnología, Spain
Head of research: Dr. Igor Zwir

PROFESSIONAL ACTIVITIES/MEMBERSHIP

Reviewer of “IEEE Transactions on Fuzzy Systems” journal and the “2007 IEEE International Conference on Fuzzy Systems”.

WORK EXPERIENCE

Baufest 2004 – 2006
Project Leader and Architect for J2EE and .NET applications

Software Developer 2003 – 2004
Toronto, Canada

- Senior Software Developer for alt234, a Toronto base web content publisher.
- System design and coding of a business to business (B2B) site for Phone Cards Online a prepaid phone card company based in London, UK

- Development of distributed systems for the Secretary of Education of Dominican Republic (Project financed by the Inter-American Development Bank)
- Dynamic content site publishing for webscreen technologies (UK & USA)
- Distributed system for RJ Reynolds, Puerto Rico

Technology Director

1999 – 2002

Illo Tempore, Buenos Aires, Argentina

Formal partner in the start-up of Illo Tempore, a software company, focused on providing distributed systems and web solutions.

Research & Software Developer Leader,

1995 – 1998

XG Tecnologia, Buenos Aires, Argentina

Research & Developing Manager in XG Tecnología, a leading Multimedia & Web solutions company in Argentina.

Programmer

1993 – 1995

Weber Ferro SRL, Buenos Aires, Argentina

The company provided multimedia solutions.

PROFESSIONAL EXPERIENCE

- Leded projects following PMI recommendations and RUP methodology.
- Evaluated technologies and environments for distributed and web systems.
- Designed high load web systems.
- Web system development on several platforms.
- Designed data bases for high volume access.
- Maintained company's and third party developed software systems
- Helped customers to troubleshoot problems and bugs.
- Installed and configured operating systems, databases, application servers, and development tools.
- Evaluated and customized general purpose open source software.
- Hired, coached and trained IT professionals.
- Standardized development coding libraries that improve systems performance, reliability and reduced development time

TECHNICAL SKILLS

- **Languages, Development platforms and Technologies:**
 - Java: Applications
 - J2EE: EJB & Web applications.
 - Perl: Scripting, Bioperl
 - Web Services: J2EE and .NET platforms
 - Microsoft DOT.NET - C#: Core & Web System development
 - Microsoft ASP.NET: Web System development
 - Beowulf/Condor cluster installation.
 - Maui/PBS clusters usage
 - C/C++: General System development
 - PHP: Web Systems Development
 - MS SQL 7/2000: Development, Installation and Maintenance
 - Oracle 8i: PL/SQL Development
 - MySQL: Installation, Development and Maintenance

LANGUAGES

Spanish (First language), English (Computer based English TOEFL examination 270/300).