

LUIS M. ROCHA - Curriculum Vitae

School of Informatics and Cognitive Science Program
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DADOS PESSOAIS

Luis Rocha é Professor Associado (com “tenure”) de *Informática*, docente votante do *Programa de Ciência Cognitiva*, Professor Associado Adjunto em *Ciência de Computação* e investigador afiliado ao *Biocomplexity Institute* na *Indiana University*, *Bloomington*, EUA. É também director do *FLAD Computational Biology Collaboratorium* e membro da direcção do *PhD program in Computational Biology* no *Instituto Gulbenkian da Ciência*, Portugal.

Data de Nascimento, 5 de Outubro de 1966.

INTERESSES DE INVESTIGAÇÃO

Sistemas Complexos Adaptativos: Análise de redes complexas, autómatos celulares, cognição corporizada, computação bio-inspirada, computação emergente, modelação multi-agentes, origem da informação, robótica, sistemas evolucionários e adaptativos, vida artificial.

Biologia Computacional: Análise de dados de expressão genética, anotação automática de dados, bioinformática, biologia de sistemas, edição de ARN, prospecção inteligente de texto e literatura biomédica.

Inteligência Computacional: Busca de informação, computação evolucionária, conexionismo, informática de busca (search), modelação de incerteza, organização colectiva e adaptativa de conhecimento, prospecção inteligente de dados e texto, redes de conhecimento e documentos, sistemas de recomendação, teoria de conjuntos difusos, teoria de informação generalizada.

FORMAÇÃO ACADÉMICA

STATE UNIVERSITY OF NEW YORK, BINGHAMTON, NEW YORK

Doutoramento em Systems Science e Ciência de Computação (1992-1997)

Equiparação a doutoramento em Informática pelo Instituto Superior Técnico, 1999

Tese: “*Evidence Sets and Contextual Genetic Algorithms: Exploring Uncertainty, Context, and Embodiment in Cognitive and Evolutionary Systems*”.

INSTITUTO SUPERIOR TÉCNICO, LISBOA, PORTUGAL

Licenciatura em Engenharia Mecânica, Ramo de Sistemas (1985-1990)

Incluindo um semestre no STAFFORDSHIRE UNIVERSITY, STAFFORD, ENGLAND, pelo programa ERASMUS com frequência do Mestrado em *Computer Integrated Manufacturing (CIM)*.

EXPERIÊNCIA PROFISSIONAL

INDIANA UNIVERSITY, SCHOOL OF INFORMATICS AND COGNITIVE SCIENCE PROGRAM,

Professor Associado (tenured), Desde Agosto de 2004

- Cadeiras leccionadas:: I101 - Introduction to Informatics (<http://informatics.indiana.edu/rocha/i101>) e I490/590 - Bio-inspired Computing (<http://informatics.indiana.edu/rocha/i-bic/>)
- Investigação na áreas de *Sistemas Complexos* (ver <http://informatics.indiana.edu/rocha/cprojects.html>).
- Trabalho corrente com alunos graduados e assistentes: grupo de 6 alunos de doutoramento, 1 pósdoc, e 3 assistentes.

INSTITUTO GULBENKIAN DA CIÊNCIA, Lisbon Portugal.

Director do Mathematical and Computational Biology Collaboratorium e membro da direcção do PhD in Computational Biology, desde 2005.

Ver <http://bc.igc.gulbenkian.pt/>

LOS ALAMOS NATIONAL LABORATORY, MODELING, ALGORITHMS, AND INFORMATICS GROUP
Pósdoc, Setembro de 1997 a Janeiro de 1999

Investigador Permanente, Fevereiro de 1999 a Julho de 2004

- Chefe do *Complex Systems Team* (<http://informatics.indiana.edu/rocha/complex>)
- Investigador principal e membro de vários projectos de investigação (ver Projectos de Investigação).
- Trabalho com alunos graduados.

UNIVERSITY OF CALIFORNIA, LOS ANGELES, INSTITUTE FOR PURE AND APPLIED MATHEMATICS

Professor Convidado, Março a Junho de 2004

Programa em “Proteomics: Sequence, Structure, Function”

STATE UNIVERSITY OF NEW YORK AT BINGHAMTON, DEPARTMENT OF SYSTEMS SCIENCE AND INDUSTRIAL ENGINEERING

- *Professor auxiliar adjunto, 1995-1997*. Desenvolvimento e ensino da cadeira “*Evolutionary Systems and Artificial Life*”, aparentemente, o primeiro curso Mundial sobre este tema: <http://informatics.indiana.edu/rocha/alife.html>.
- *Assistente de investigação, 1996*. Modelação, simulação e projecto de requerimentos de prontidão de rota e operação de porto para bases da Marinha Norte-Americana.
- *Assistente de ensino, 1995-1997*. Assistente das aulas práticas das cadeiras de Mestrado e Doutoramento: “*Neural Network and Genetic Models*” e “*Modeling and Simulation*”. Responsável pelo desenvolvimento de trabalhos interactivos para a Web: <http://informatics.indiana.edu/rocha/assign.html>.
- *Gestor de Informação e Web, 1995-1997*.

LABORATÓRIO NACIONAL DE ENGENHARIA CIVIL, LISBOA, PORTUGAL

Bolseiro de investigação:1990 (part-time)

Bolseiro graduado de investigação:1991 (full-time)

Projecto e desenvolvimento de sistema de controlo para mesa sísmica. Desenvolvimento de software para controlo desta mesa em *Fortran* e *C*.

SERVIÇO PRESTADO À COMUNIDADE CIENTÍFICA

Conselhos Editoriais e Científicos (Editorial and Advisory Boards)

Journal of Applied Systems Studies, Journal of Biosemiotics, Ciencia Hoje, Polimetrica Publisher, Principia Cybernetica Project

Editor Ad Hoc

Artificial Life, Biosystems, Communication and Cognition - Artificial Intelligence

Avaliador (Reviewer)

Adaptive Behavior, Advances in Complex Systems, Artificial Intelligence, Artificial Life, Behavioral and Brain Sciences, Biosystems, Clinical Chemistry, Cognitive Science, Complex Systems, Data & Knowledge Engineering journal, Data Mining & Knowledge Discovery, Foundations of Science, IEEE Transactions on Evolutionary Computation, IEEE Transaction on Systems Man and Cybernetics, Interacting with computers journal, International Journal of Human-Computer Studies, International Journal of General Systems, International Journal of Operations Research, Journal of Artificial Societies and Social Simulation, Journal of Theoretical Biology, Molecular Biosystems, Nucleic Acids Research, Proceedings of the National Academy of Sciences (PNAS), Systems Research, Transactions on Information Systems.

Comité Organizador de Conferências (Conference Organizing Committees)

ECAL 2007: European Conference on Artificial Life, September 2007, Lisbon, Portugal
MA4CS07: Multi-Agents for modelling Complex Systems, track chair. Workshop at the European Conference on Complex Systems 2007 (ECCS'07) Dresden, Germany, October 1-6, 2007
Artificial Life X: Bloomington, IN, June 3-7, 2006 (Chair of Organizing Committee)
Genetic Regulatory Networks: Theory and Practice workshop at CEC03, Australia, Dezembro 2003
International interdisciplinary seminar on new robotics, evolution and embodied cognition, Lisboa, Portugal, Novembro 12-15 2002

Comité de Programa de Conferências (Conference Program Committees)

EPIA 2007: 13th Portuguese Conf. on Artificial Intelligence, December 3-7, 2007, Guimarães, Portugal.
WI-07: 2007 IEEE/WIC/ACM Int. Conference on Web Intelligence, Silicon Valley, USA, November 2-5.

AAAI-07: The 22nd *National Conference on Artificial Intelligence*, July 22–26, 2007, Vancouver, Canada
 BioLINK 2007: *Linking Literature, Information and Knowledge for Biology*. SIG at ISMB 2007, July 19, 2007, Vienna, Austria.
 GECCO 2007: *Genetic and Evolutionary Computation Conference*, July 7-11, 2007, London, England.
 KIMAS '07: *International Conference Integration of Knowledge Intensive Multi-Agent Systems: Modeling, Evolution and Engineering*, April 29 – May 3, 2007 Waltham, Massachusetts
 2006 *IEEE/WIC/ACM International Conference on Web Intelligence (WI-06)*, Hong Kong, Dec. , 2006
 JBB06: *The Joint BioLINK-BioOntologies Meeting*, in association with the *14th International Conference on Intelligent Systems for Molecular Biology (ISMB'06)*, Fortaleza, Brazil, August 4-10, 2006.
 GECCO 2006: *Genetic and Evolutionary Computation Conference*, July 8-12, 2006, Seattle, USA.
 BioNLP06: *Linking Natural Language Processing and Biology: Towards deeper biological literature exploitation*. Special Workshop of the *Human Language Technology conference - North American chapter of the Association for Computational Linguistics (HLT-NAACL06)*, June 8, 2006, New York City, NY, USA
Exploration vs. Exploitation in Naturally Inspired Search: Special workshop for the *UK Society for the Study of Artificial Intelligence and Simulation of Behaviour Conference - AISB 2006*, April 5, 2006, Bristol, England
 EPIA 2005: *12th Portuguese Conference on Artificial Intelligence*, December 5-8, 2005, Covilhã, Portugal
 ALEA05: *Artificial Life and Evolutionary Algorithms - Special Workshop at EPIA'05*
 IROBOT'05: *1st International Workshop on Intelligent Robotics*. Special Workshop at EPIA '05.
 ECAL 2005: *European Conference on Artificial Life*, September 5-9, 2005, University of Kent, UK.
Active agents and their environments as dynamical systems workshop - at ECAL 2005
 CEC 05: *IEEE Congress on Evolutionary Computation*, Edinburgh, UK, September 2-5, 2005.
 GECCO 2005: *Genetic and Evolutionary Computation Conference*, June 25-29, 2005, Washington, D.C.
 KIMAS 05: *IEEE International Conference on Integration of Knowledge Intensive Multi-Agent Systems*. April 18 - 21, 2005, Waltham, Massachusetts.
 CEC 2004: *Congress on Evolutionary Computation*, Portland, Oregon, June 19-23
Agent-Based Simulation 5, Lisbon, Portugal May 3-5, 2004
 CEC 2003: *Congress on Evolutionary Computation*, Canberra, Australia, December 2003
 KIMAS 03: *IEEE Integration of Knowledge Intensive Multi-Agent Systems*, Cambridge, MA., Oct. 2003.
Oeiras Mathematical and Computational Biology Workshop, Oeiras, Portugal, June 20th 2003.
Autonomy, Delegation, and Control: From Inter-agent to Organizations and Institutions Workshop, 2nd *International Conference on Autonomous Agents and Multi-Agent Systems*, Melbourne, Australia, 2003
 EPIA'03: *11th Portuguese Conference on Artificial Intelligence -*, December 4-7, 2003, Beja, Portugal.
Workshop on Distributed Computing Architectures for Digital Libraries, at the *31th International Conference on Parallel Processing ICPP 2002*, Vancouver, Canada August 18-21, 2002.
 CEC 2002: *Congress on Evolutionary Computation, part of the IEEE World Congress on Computational Intelligence*, Hawaii, 2002
10th Mediterranean Conference On Control And Automation Med2002, Lisbon, Portugal July 2002
From Intelligent Networks to the Global Brain: Evolutionary Social Organization through Knowledge Technology, Brussels, July 3-5, 2001.
Complex Systems 2000, Dunedin, New Zealand, November 2000.
1998 Conference on Intelligent Systems and Semiotics, NIST, Gaithersburg, Maryland – Session Chair.
2nd International Symposium On Intelligent Manufacturing Systems, August 1998, Sakarya , Turkey

Painéis de Avaliação

Fundação para a Ciência e Tecnologia, Portugal. Painel de Engenharia de Computadores, 2007.
National Science Foundation, USA, Computer & Information Science & Engineering, 2006
Science Foundation Ireland , President of Ireland Young Researcher Award, 2006
 Coordenador do Painel de avaliação de projectos de investigação em *Robótica e Sistemas Inteligentes e de Informação* para a *Fundação para a Ciência e Tecnologia*, Portugal, 2000, 2003, 2004
Belgian Fund for Scientific Research, 2005 (Vrije Universiteit Brussels - VUB), 2004, 2005, 2006.
UMCEES Review Panel, National Research Council, 2001
 Painel de avaliação de propostas em *Computer Science and Software Engineering* do *Los Alamos National Laboratory* 1998-2000.

PALESTRANTE CONVIDADO

NATIONAL SCIENCE FOUNDATION WORKSHOP ON BIO-INSPIRED COMPUTATION, October 29-30, 2007, Arlington, Virginia, USA.

Orador Convidado: "Bio-inspired Computing and New Design Principles from Computational Biology"

EUROPEAN CONFERENCE ON ARTIFICIAL LIFE, 2007, SEPTEMBER 10-15, LISBON, PORTUGAL.

Invited Discussant: "Reality is Stranger than Fiction: What to do in Artificial Life About Advances in Biology?"

INSTITUTO GULBENKIAN DE CIENCIA, July, 2007, Oeiras, Portugal.

Orador Convidado: "The emergence of regulation in artificial models of genotype editing"

INTERNATIONAL WORKSHOP ON PRACTICAL APPLICATIONS OF COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, 20-22 de Junho, 2007, Ourense, Espanha.

Orador Convidado: "Uncovering Protein-Protein Interactions in the Bibliome".

DEPARTAMENTO DE MATEMÁTICA, UNIVERSIDADE DE SEVILHA, 13 de Junho, 2007, Sevilha, Espanha

Orador Convidado: "Transitivity in weighted graphs: effects on network topology".

DEPARTAMENTO DE INFORMÁTICA, UNIVERSIDADE NOVA DE LISBOA, 4 de Junho, 2007, Lisboa, Portugal

Orador Convidado: "Complex Adaptive Systems and Computational Intelligence".

SECOND BIOCREATIVE CHALLENGE WORKSHOP: CRITICAL ASSESSMENT OF INFORMATION EXTRACTION IN MOLECULAR BIOLOGY, 23-25 de Abril, 2007, Madrid, Espanha.

Session Chair

DATA AND SEARCH INSTITUTE, INDIANA UNIVERSITY, 31 de Janeiro, 2007, Bloomington, Indiana, USA

Orador Convidado: "Bibliome Informatics: uncovering inferences by literature mining".

FORUM INTERNACIONAL DE INVESTIGADORES PORTUGUESES, BIOMEDICINA: INVESTIGACAO, ENSINO E IMPACTO NA SOCIEDADE, Setembro 21-23, 2006, Porto, Portugal.

Orador Convidado: "Knowledge Integration in Biomedicine"

JOINT STATISTICAL MEETINGS, COMPLEX NETWORKS SESSION, August 6-20, 2006, Seattle, WA

Orador Convidado: "Effects of Transitive and Metric Closure on Weighted Graphs"

INSTITUTO SUPERIOR TECNICO, INSTITUTO DE SISTEMAS E ROBOTICA, June 19-20, 2006

Professor Convidado: two day course "Brief Introduction to Bioinformatics and Computational Biology"

INSTITUTO GULBENKIAN DE CIENCIA, April 3, 2006

Professor Convidado: "Bibliome Informatics"

UNIVERSITY OF BRAGA, DOCTORAL SYMPOSIUM, February 2006, Braga, Portugal

Orador Convidado: "Bibliome Informatics"

NATIONAL SCIENCE FOUNDATION: WORKSHOP ON DYNAMIC DATA-DRIVEN APPLICATIONS SYSTEMS, Arlington, VA, January 19-20, 2006

Participante Convidado

INDIANA UNIVERSITY, BLOOMINGTON, Cognitive Science Program Seminar Series, November 16, 2005.

Orador Convidado: "The Emergence of Representations".

IEEE/WIC/ACM INTERNATIONAL CONFERENCE ON WEB INTELLIGENCE AND INTELLIGENT AGENT TECHNOLOGY, Compiègne, France, September 19-22, 2005

Coordenador Convidado: "Sessão Intelligent E-Technology".

INDIANA UNIVERSITY, BLOOMINGTON, Biocomplexity Institute Seminar Series, April 16, 2005.

Orador Convidado: "Artificial Life Models of Genotype Editing".

INDIANA UNIVERSITY, BLOOMINGTON, Networks Science Seminar, January 24, 2005

Orador Convidado: "Proximity Networks and Semi-Metric Behavior"

UNIVERSIDADE NOVA DE LISBOA, Lisbon, Portugal. December, 10th, 2004.

Orador Convidado: "Proximity Networks and Fuzzy Graphs"

INSTITUTO GULBENKIAN DE CIENCIA, Lisbon, Portugal. December, 22nd 2004

Orador Convidado: "Mathematical and Computational Biology"

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN. Nonlinear Dynamics and Complex Systems Seminar, October 29th, 2004.

Orador Convidado: "Extraction and Semi-metric Analysis of Social and Biological Networks"

INDIANA UNIVERSITY, BLOOMINGTON, School of Informatics and Computer Science Department Colloquium, October 8th, 2004.

Orador Convidado: "From Document Networks to the Adaptive Web"

COGNITIVE SYSTEMS: HUMAN COGNITIVE MODELS IN SYSTEM DESIGN CONFERENCE. Santa Fe, NM, June 30th, 2004

Orador Convidado: "Evidence sets: Using uncertainty as an engine for adaptive recommendation".

INDIANA UNIVERSITY, BLOOMINGTON, SCHOOL OF INFORMATICS AND COGNITIVE SCIENCE PROGRAM, February 16th, 2004
Orador Convidado

GENETIC REGULATORY NETWORKS: THEORY AND PRACTICE, Canberra, Australia, 8th - 12th December 2003
Co-Chair: http://www.itee.uq.edu.au/~complexity/CEC_Special_Session/

OEIRAS MATHEMATICAL AND COMPUTATIONAL BIOLOGY WORKSHOP, Oeiras, Portugal, June 20th 2003.
Co-Chair: <http://informatics.indiana.edu/rocha/cbigc>

INFORMATION SCIENCE AND TECHNOLOGY COLLOQUIUM, NASA GODDARD SPACE FLIGHT CENTER, Jan. 29, 2003
Orador Principal

CENTER FOR THE STUDY OF COMPLEX SYSTEMS, UNIVERSITY OF MICHIGAN, ANN ARBOR, December 5, 2002
Orador Convidado

ENTREPRENEURSHIP IN BIOTECHNOLOGY, VENTURING IDEAS ACROSS THE ATLANTIC WORKSHOP, Newark, NJ, January 31, 2003
Orador Convidado

INTERNATIONAL INTERDISCIPLINARY SEMINAR ON NEW ROBOTICS, EVOLUTION AND EMBODIED COGNITION, LISBON, PORTUGAL, NOVEMBER 12-15 2002.
Co-Chair e Orador Convidado: <http://wwwinformatics.indiana.edu/rocha/embrob>

2002 INNOVATIVE STUDIES RESEARCH PROGRAM WORKSHOP, Santa Fe, NM October 15th
Orador Convidado

WORKSHOP ON ENABLING CONCEPTS IN BIOSYSTEMS ANALYSIS, SEPTEMBER 19-20, 2002, SANTA FE, NM
Orador Convidado

CRITICAL STUDIES WORKSHOP, STANFORD UNIVERSITY, MAY 8, 2002.
Orador Convidado.

WORKSHOP OF THE SYSTEMS THEORY OF BIO-INFORMATICS AND ITS EXTENSION TOWARDS ENGINEERING DESIGN THEORY PROJECT, GRADUATE SCHOOL OF ENGINEERING, KYOTO UNIVERSITY, JAPAN, NOVEMBER 2001.
Orador Convidado

1ST PORTUGUESE MEETING ON THEORETICAL AND COMPUTATIONAL BIOLOGY. INSTITUTO GULBENKIAN DE CIENCIA, OEIRAS, PORTUGAL, 23RD-26TH OF OCTOBER 2001
Orador Convidado

NATO ADVANCED RESEARCH WORKSHOP ON SYSTEMATIC ORGANISATION OF INFORMATION USING FUZZY SYSTEMS, VILA REAL, PORTUGAL, 24TH-26TH OF OCTOBER 2001
Orador Convidado

FROM INTELLIGENT NETWORKS TO THE GLOBAL BRAIN: EVOLUTIONARY SOCIAL ORGANIZATION THROUGH KNOWLEDGE TECHNOLOGY, BRUSSELS, JULY 3-5, 2001.
Orador Convidado

III ENCONTRO DO FORUM INTERNACIONAL DE INVESTIGADORES PORTUGUESES, FARO, PORTUGAL ABRIL, 2001.
Orador Convidado da Sessão sobre Informática

INSTITUTO GULBENKIAN DA CIENCIA, LISBON PORTUGAL, MARÇO 2001.
Orador Convidado

GORDON RESEARCH CONFERENCE ON RNA EDITING, JANUARY 21-26, 2001, VENTURA, CA.
Orador da Sessão de Abertura (Keynote).

HETERARCHIES: DISTRIBUTED INTELLIGENCE AND THE ORGANIZATION OF DIVERSITY, SANTA FE INSTITUTE WORKSHOP OCTOBER 13 AND 14, 2000, SANTA FE, NM.
Orador Convidado

INSTITUTO DE SISTEMAS E ROBOTICA, INSTITUTO SUPERIOR TECNICO, LISBON, PORTUGAL. AUGUST 2000 AND SEPTEMBER 2001.
Orador Convidado

XEROX PARC, PALO ALTO. JUNE 2000
Orador Convidado no User-Interaction Group

DESIGN PRINCIPLES FOR THE IMMUNE SYSTEM AND OTHER DISTRIBUTED AUTONOMOUS SYSTEMS, SANTA FE INSTITUTE, JULY 1999, SANTA FE, NEW MEXICO.
Orador Convidado

INTERNATIONAL MEETING ON EMERGENT ORGANIZATIONS AND THEIR DYNAMICS, MAY 1999, UNIVERSITY OF GHENT, GHENT, BELGIUM
Orador Convidado

ISIC/CIRA/ISAS '98: IEEE INTERNATIONAL SYMPOSIUM ON INTELLIGENT CONTROL (ISIC), INTERNATIONAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE IN ROBOTICS AND AUTOMATION (CIRA), INTELLIGENT SYSTEMS AND SEMIOTICS (ISAS), SEPTEMBER 1998, GAITHERSBURG, MARYLAND U.S.A.

Co-Chair da sessão “Semiotics of Autonomous Information Systems”

WORKSHOP ON EMERGENT SEMANTIC AND COMPUTATIONAL PROCESSES IN DISTRIBUTED INFORMATION SYSTEMS, AUGUST 1998, LOS ALAMOS, NEW MEXICO

Co-organizador (<http://www.c3.lanl.gov/~joslyn/pcp/workshop98.html>)

2ND INTERNATIONAL SYMPOSIUM ON INTELLIGENT MANUFACTURING SYSTEMS, AUGUST 1998, SAKARYA , TURKEY

Chair da sessão “Emergent Computation and Intelligent Manufacturing Systems”

THE PHILOSOPHY OF ARTIFICIAL LIFE, MARCH 1997. CHRIST CHURCH, OXFORD, UNITED KINGDOM

Participante Convidado

WORKSHOP ON CONTROL MECHANISMS FOR COMPLEX SYSTEMS, DECEMBER 1996, U.S. AIR FORCE BASE, LAS CRUCES, NEW MEXICO, U.S.A.

Orador Convidado

THE LOS ALAMOS NATIONAL LABORATORY, (CNLS/XCM), AUGUST 1996, LOS ALAMOS, NEW MEXICO, U.S.A.

Orador Convidado

THE SANTA FE INSTITUTE, AUGUST 1996, SANTA FE, NEW MEXICO, U.S.A.

Orador Convidado

WASHINGTON EVOLUTIONARY SYSTEMS SOCIETY, SEPTEMBER 21, 1995 WASHINGTON D.C., U.S.A.

Orador Convidado

INTERNATIONAL MEETING ON EVOLVING SYSTEMS, MARCH 1995, KONRAD LORENZ INSTITUTE, VIENNA, AUSTRIA

Orador Convidado

JOINT CONFERENCE OF THE NORTH AMERICAN FUZZY INFORMATION PROCESSING SOCIETY (NAFIPS), INTERNATIONAL FEDERATION OF INFORMATION SYSTEMS (IFIS), AND NORTH AMERICAN SPACE AGENCY (NASA): NAFIPS/IFIS/NASA'94, DECEMBER 1994, SAN ANTONIO, TEXAS, U.S.A.

Session Chair

ARTIFICIAL LIFE: A BRIDGE TOWARDS A NEW ARTIFICIAL INTELLIGENCE, DECEMBER 1993, SAN SEBASTIAN, SPAIN

Participante Convidado

PROJECTOS DE INVESTIGAÇÃO PATROCINADOS

NATIONAL SCIENCE FOUNDATION, HUMAN AND SOCIAL DYNAMICS PROGRAM, OCTOBER 2005/SEPTEMBER 2008

DHB: Dynamics of Information Flow and Decisions in Social Networks

Co-PI com Eliot Smith, Robert Goldstone, Hugh Kelly, US\$ 530.000.

FLAD COMPUTATIONAL BIOLOGY COLLABORATORIUM E PhD PROGRAM IN COMPUTATIONAL BIOLOGY NO INSTITUTO GULBENKIAN DA CIENCIA, PORTUGAL. Patrocínios obtidos de: *Fundação Gulbenkian, Fundação para a Ciência e Tecnologia, Siemens Academic, Fundação Luso-Americana para o Desenvolvimento, e Portugal Telecom.*

Membro da direcção destas iniciativas. A totalidade dos patrocínios chega a vários milhões de euros para um período de quatro anos.

DEPARTMENT OF ENERGY/LOS ALAMOS NATIONAL LABORATORY, LDRD-DR, 2002-2005

Structural Bioinformatics: Inferring protein function from sequence and structure on a genomic scale

Co-PI, US\$ 3.100.000

DEPARTMENT OF ENERGY/LOS ALAMOS NATIONAL LABORATORY, RESEARCH LIBRARY, 1998-2004

Research and Development of Active Recommendations Systems for the Library Without Walls Project.

PI, US\$ 1.800.000. (<http://arp.lanl.gov>).

DEPARTMENT OF ENERGY/LOS ALAMOS NATIONAL LABORATORY - LDRD-ER, 2001-2004

Identification of Interests, Trends and Dynamics in Document Networks.

PI. US\$ 315.000 (<http://www.informatics.indiana.edu/rocha/DN/>)

DEPARTMENT OF ENERGY/LOS ALAMOS NATIONAL LABORATORY - LDRD- DR, 2002
Discovering Signatures of Human Infection by Biothreat Agents with Application to Bioterrorism Countermeasures– Literature Analysis Component
Cientista convidado: US\$ 20.000

DEPARTMENT OF ENERGY/LOS ALAMOS NATIONAL LABORATORY - LDRD- DR, 2002
Advanced Knowledge Integration In Assessing Terrorist Threats – Network Analysis Component
Co-PI. US\$ 250.000

DEPARTMENT OF ENERGY/LOS ALAMOS NATIONAL LABORATORY, 1998-2001
Gene Expression Array Analysis as Part of the Functional Genomics Research Program
Cientista Convidado, US\$ 90.000. (<http://informatics.indiana.edu/rocha/fungen>)

XEROX CORPORATION/DEPARTMENT OF ENERGY/LOS ALAMOS NATIONAL LABORATORY, 2000-2001
Knowledge Management
Membro de equipa de 8 cientistas: US\$ 1.000.000.

PHYSICAL SCIENCE LABORATORY AT NEW MEXICO STATE UNIVERSITY (NMSU), 1998-2000
Agent-based modeling of socio-technical organizations
Co-PI, US\$ 120.000

U.S. NAVY (CINCLANFLT) AND RESEARCH FOUNDATION OF THE STATE UNIVERISTY OF NEW YORK AT BINGHAMTON, 1996-1997
Model design of budget and fleet readiness requirements and Simulation of Port Operations
Assistente de Investigação de Prof. Donald Gause

NATO INTERNATIONAL SCIENTIFIC EXCHANGE PROGRAMMES, ENGLAND-THE NETHERLANDS- IST PORTUGAL, 1990-1992
Inference Mechanisms in Artificial Intelligenc

COBERTURA MEDIÁTICA, PRÉMIOS E BOLSAS

RADIO TELEVISÃO PORTUGUESA (RTP): Interview for 2010 program on Artificial Life. : September 24, 2007, Portugal.

RADIODIFUSÃO PORTUGUESA ANTENA 1: Interview for news service about Artificial Life. September 12, 2007, Portugal.

RADIO CLUBE PORTUGUÊS: Interview in "Janela Aberta", apresentado por Ana Sousa Dias, September 10, 2007, Portugal.

FUNDAÇÃO CALOUSTE GULBENKIAN NEWSLETTER: “Tecendo Redes Para A Biologia Computacional”, September, 2007, Portugal. <http://www.gulbenkian.pt/v1/newsletters/86.pdf>

CIÊNCIA HOJE WEB PORTAL: “Luis Rocha: FLAD and the Portuguese Scientists in America”, 1 de Outubro, 2006
<http://www.cienciahoje.pt/index.php?oid=9116&op=all>

CORREIO DA MANHÃ NEWSPAPER: “Aposta na investigação”, Portugal, 22 de Junho, 2006.
<http://www.correiomanha.pt/noticia.asp?id=205996&idCanal=10>

CIÊNCIA HOJE WEB PORTAL: “IGC e FLAD criam laboratório de biologia computacional”, 22 de Junho 2006.
<http://www.cienciahoje.pt/index.php?oid=3452&op=all>

LUSA NEWS AGENCY: “Biologia Computacional: Parceria luso-americana para co-laboratório”, 21 de Junho 2006. <http://www.lusa.pt/print.asp?id=SIR-8102084>

COMPLEXITY DIGEST WEB PORTAL: "Interview at the Alife X Conference", 6 de Junho, 2006.
<http://complexity.vub.ac.be/~comdig/ALifeX/>

INDIANA DAILY STUDENT: "IU to showcase AI technology", 1 de Junho, 2006
<http://www.idsnews.com/news/story.php?id=36111&adid=news>

DE FRENTE WEB PORTAL: "Luis Rocha": 29 de Maio, 2006
<http://www.algebraica.pt/Arquivo/Newsletters/defrente/44/index.htm>

THE INDIANAPOLIS STAR NEWSPAPER: "Indiana noteworthy": 22 de Maio, 2006
<http://www.indystar.com/apps/pbcs.dll/article?AID=/20060522/BUSINESS/605220344&SearchID=73245320450948>

INDIANA UNIVERSITY, SCHOOL OF INFORMATICS, Maio de 2006
Teaching Excellence Award 2006

LABORATORYTALK WEB PORTAL: "Integrating artificial life simulation with synthetic biology": 22 de Maio, 2006
<http://www.laboratorytalk.com/news/iqd/iqd126.html>

BIOHEALTHMATHEMATICS WEB PORTAL: "Integrating artificial life simulation with synthetic biology", 19 de Maio, 2006
<http://news.biohealthmatics.com/PressReleases/2006/05/20/000000004557.aspx>

TECHPOINT WEB PORTAL: "Scientists to Get 'Alife' at International Conference", 15 de Março, 2006
<http://www.techpoint.org/pressreleasesdetails.aspx?id=293>

CIENCIA HOJE WEB PORTAL: "Luís Rocha preside a conferência sobre duas décadas de Vida Artificial", 15 de Março, 2006, Portugal
<http://www.cienciahoje.pt/index.php?oid=2703&op=all>

COMPLEXITY DIGEST WEB PORTAL: "Interview at the Artificial Life 9 Conference", Boston, MA, 14 de Setembro, 2004
<http://complexity.vub.ac.be/~comdig/ALife9/Rocha.asf>

UNIVERSITY OF CALIFORNIA, LOS ANGELES, INSTITUTE FOR PURE AND APPLIED MATHEMATICS
Fellowship, March-June 2004, Program on "Proteomics: Sequence, Structure, Function"

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