

FERRANTE NERI



Given Name: Ferrante Surname: Neri
Date and place of birth : 22nd June 1978, Bari, Italy -33 years old-
Gender: Male

Department of Mathematical Information Technology, Office Ag. C423.2
Address: Voionmaankatu 8 As. 2, 40700, Jyväskylä, Finland
Contact number : +358-44-0130057
E-mail : ferrante.neri@jyu.fi
Website: <http://people.cc.jyu.fi/~neferran/>

EDUCATIONAL BACKGROUND

Aug 10	Docent (Adjunct Professor, Habilitation) in Computational Intelligence, University of Jyväskylä, Finland.
Nov 07	PhD in Computer Science (Major: Scientific Computing and Optimization) with the Faculty of Information Technology, University of Jyväskylä, Finland. Thesis: "Fitness Diversity Adaptation in Memetic Algorithms", Jyväskylä Studies in Computing, Jyväskylä University Printing House, Number 81.
Aug 07	Lecturer qualifying license received from University of Jyväskylä, Finland. Grade: "Very Good"
Apr 07	PhD in Electro-technical Engineering with the Department of Electrotechnics and Electronics, Technical University of Bari, Italy. Thesis: "Advanced Optimization Algorithms in Electrical Engineering"
Oct 03	Professional qualifying license (Engineer title) received from Technical University of Bari, Italy
Sep 03	Postgraduate Certificate: "Data Base Administrator and Programmer" received from Italian Ministry of Education and Scientific Research
Dec 02	Postgraduate Certificate "Expert in Safety" received from Technical University of Bari, Italy
Nov 02	Master Degree in Electrical Engineering (Laurea Degree) received from Technical University of Bari, Italy. Thesis: "Optimization of grounding systems by means of evolutionary algorithms". Final vote 109/110

WORK EXPERIENCE

Sep 09- Aug 14	Academy Research Fellow (Akatemiatutkija) with Academy of Finland, at the Department of Mathematical Information Technology, University of Jyväskylä, Finland, Research Project: "Algorithmic Design Issues in Memetic Computing"
Nov 07-Today	Assistant Professor (Yliassistentti, Senior Assistant) in Simulation and Optimization , with the Department of Mathematical Information Technology, University of Jyväskylä, Finland (on leave Sep 09 - today)
Jan 07-Nov 07	Doctoral Student Temporary Position (Tohtorikoulutettava) with the Department of Mathematical Information Technology, University of Jyväskylä, Finland
Feb 04-Jan 07	Research Student with the Department of Electrotechnics and Electronics, Technical University of Bari, Italy
Apr 03-Feb 04	Assistant Researcher with the Department of Electrotechnics and Electronics, Technical University of Bari, Italy Research plan: Numerical Analysis and Optimization applied to Current Fields
Nov 02-Apr 03	Data Base Administrator and Visual Basic Programmer with Forma Service, Milano, Italy

TEACHING EXPERIENCE

Course Organization

2008-2009	Member of the Organizing Committee Representing the department of Mathematical Information Technology, 19 th Jyväskylä Summer School, Finland
International Courses (in English)	
2008-today	Research Project, Department of Mathematical Information Technology, University of Jyväskylä, Finland (Course code TIES505)
2008	Medicine+Computer Science=Computational Medicine; Computational Intelligence for Multi-drug Therapies, Winter School on Mathematical and Computational Biology, University of Newcastle, Australia, 7-11 July
2007	Recent Advances in Evolutionary Computing, 17 th Jyväskylä Summer School, University of Jyväskylä, Finland (20 hours)
2007	Evolutionary Computational Intelligence, University of Jyväskylä, Finland (30 hours)
2005	Overview on Evolutionary Optimization in Engineering, Yaroslavl' State University, Russia (20 hours)
International Seminars (in English)	
2010	A Gentle Introduction to Compact Evolutionary Algorithms, Nanyang Technological University, Singapore
2009	Recent Advances in Differential Evolution, Optimization Group, University of Jyväskylä, Finland
2007	Analysis of Fitness Diversity Measurement in Adaptive Memetic Algorithms, ASAP Seminar, University of Nottingham, UK
2005	Adaptation in Multimeme Algorithms, University of Vaasa, Finland
2005	Introduction to Memetic Algorithms, University of Jyväskylä, Finland
Seminars with the Technical University of Bari (in Italian)	
2005	Exercises of Electrotechnics (20 hours) C++ Programming (20 hours)
2004	Exercises of Electrotechnics (20 hours)
2003	Exercises of Electrotechnics (10 hours) Synchronous Machine (6 hours) PSpice Programming (4 hours)
Supervision	
<i>Current</i>	
2011-today	PhD Student, Ilpo Poikolainen, University of Jyväskylä. Research topic: Automatic Design in Memetic Computing, expected graduation June 2013
2010-today	PhD Student, Giovanni Iacca, University of Jyväskylä, Research topic: Memory-saving Optimization Algorithms for Systems with Limited Hardware, scheduled graduation December 2011
2010-today	PhD Student, Ernesto Mininno, University of Jyväskylä, Research topic: From Algorithmic Design to Software Implementation, scheduled graduation December 2011
2011	MSc student Heikki Salo, University of Jyväskylä, Research topic: Computational Intelligence Optimization for Bio-mass Identification in Agriculture, expected graduation December 2011
2011	Visiting MSc student Fabio Caraffini, University of Perugia, Research topic: memory saving metaheuristics embedded within robots with hardware limitation, scheduled graduation November 2011
<i>Graduated PhD</i>	
2010	PhD thesis in Information Technology of Matthieu Weber, University of Jyväskylä, Thesis: "Parallel Global Optimization, Structuring Populations in Differential Evolution"
2008	PhD thesis in Information Technology of Ville Tirronen with University of Jyväskylä, "Global Optimization using Memetic Differential Evolution with Applications to Low Level Machine Vision"
<i>Graduated Visiting PhD</i>	
2008	Visiting PhD Student Anna Kononova, University of Leeds, UK, hosted at the University of Jyväskylä, Research topic: Memetic Algorithms for Very Large Scale Problems. Thesis defended in 2010.
2007-2009	Andrea Caponio, Technical University of Bari, Italy, hosted at the University of Jyväskylä, Research topic: Computational Intelligence Optimization for Hard to Solve Problems. Thesis defended in 2010.
<i>Graduated MSc</i>	
2010	MSc Thesis in Image Processing of Jarkko Pekkarinen, University of

	Technology of Tampere, Finland, Research topic: Meta-heuristic Optimization for PET
2008	MSc thesis in Scientific Computing and Optimization of Sauli Ruuska with University of Jyväskylä, “Protocol for Comparison of the Performance of Stochastic Global Optimization Algorithms”
2005	MSc thesis in Electrical Engineering of Antonio Lapietra with Technical University of Bari “Hierarchical Evolutionary Algorithms in Electrical Grounding Grids Design by Optimal Compression Ratios”
Evaluation	
2010	PhD Thesis in Signal Processing of Harri Pölönen with the Technical University of Tampere, “Quantification of Biomedical Data with Stochastic Parametric Models and Numerical Optimization”
2008	MSc thesis in Information Technology of Santtu Salmi with the University of Jyväskylä, “Multidisciplinary Design Optimization in an Integrated CAD/FEM Environment”

RESEARCH EXPERIENCE

2011-today	Leader of the Computational Intelligence Optimization Group at the Department of Mathematical Information Technology, University of Jyväskylä, Finland
Journal Editorial Boards	
2011-today	International Journal of Information Science and Computer Applications
2009-today	Journal of Engineering, Design and Technology, Emerald
2008-today	International Journal of Organizational and Collective Intelligence, IGI Publishers
2007-today	Memetic Computing Journal, Springer
Conference Organization	
Apr 13	IEEE Symposium on Differential Evolution, with Swagatam Das, Ponnuthurai N. Suganthan, and J. Brest, Singapore
Apr 12	Symposium on Differential Evolution and Swarm Intelligence, Zakopane, Poland, with J. Brest and M. Clerc
Apr 11	8 th Europ. Workshop on Evolutionary Computation in Stochastic and Dynamic Environments, EvoStoc2011 within EvoStar2011, Turin, Italy with Hendrik Richter
Dec 10	International Conference on Computational Problem-Solving, Li-Jang, China, Competition Chair with Ernesto Mininno
Jul 10	2010 IEEE World Congress on Computational Intelligence, Co-organizer of the Special Session on Hybrid Evolutionary Algorithms, Hyper-Heuristics and Memetic Computation, Barcelona, Spain with Gabriela Ochoa, Shaheen Fatima, and Yew-Soon Ong
Apr 10	7 th Europ. Workshop on Evolutionary Computation in Stochastic and Dynamic Environments, EvoStoc2010 within EvoStar2010, Istanbul, Turkey with Chi-Keong Goh
May 09	2009 IEEE Congress on Evolutionary Computation, Co-organizer of the Special Session on Memetic Algorithms for Hard to Solve Problems with Pablo Moscato and Hisao Ishibuchi
Apr 09	Competition Chair within EvoStar2009, Tübingen, Germany with Ville Tirronen
Apr 09	6 th Europ. Workshop on Evolutionary Computation in Stochastic and Dynamic Environments, EvoStoc2009 within EvoStar2009, Tübingen, Germany with Shengxiang Yang
Jun 08	2008 IEEE World Congress on Computational Intelligence, Co-organizer of the Special Session on Memetic Algorithms with Yew-Soon Ong, Meng Hiot Lim and Hisao Ishibuchi
Sep 07	2007 IEEE Congress on Evolutionary Computation, Co-organizer of the Special Session on Memetic Algorithms with Yew-Soon Ong, Meng Hiot Lim and Hisao Ishibuchi
Sep 07	2007 IEEE Congress on Evolutionary Computation Vice Chair
Scientific Committees	

Jul 11 Genetic and Evolutionary Computation Conference, GECCO 2011, Dublin, Ireland

Apr 11 IEEE Symposium on Differential Evolution, IEEE Symposium on Memetic Computing, Paris, France

Jan 11 International Conference for Computational Learning for Aerospace, Singapore

Dec 10 International Conference on Soft Computing and Pattern Recognition, Cergy Pontoise, France

Oct 10 IEEE Conference on Systems Man and Cybernetics, Istanbul, Turkey

Sep 10 Parallel Problem-Solving in Nature, Krakow, Poland

Jul 10 Genetic and Evolutionary Computation Conference, GECCO 2010, Portland, USA

Jul 10 IEEE Conference on Evolutionary Computation, Barcelona, Spain

Apr 10 3rd European event on Bio-inspired algorithms for continuous parameter optimisation, Istanbul, Turkey

Dec 09 World Congress on Nature and Biologically Inspired Computing, Coimbatore, India

Dec 09 International Conference on Soft Computing and Pattern Recognition, Malacca, Malaysia

Oct 09 Workshop on Computational Optimization, International Multiconference on Computer Science and Information Technology, Mragowo, Poland

Oct 09 IEEE Conference on Systems, Man and Cybernetics, San Antonio, USA

Jul 09 Genetic and Evolutionary Computation Conference, GECCO 2009, Montreal, Canada

May 09 2009 IEEE Congress on Evolutionary Computation, Special Session on Evolutionary Computation in Dynamic and Uncertain Environments, Track BioComputing & Complex Adaptive Systems: From Theory to Practice, Track System Design and Analysis, and Track Evolutionary Optimization, Trondheim, Norway

Apr 09 11th European Workshop on Evolutionary Computation in Image Analysis and Signal Processing, Tübingen, Germany

Mar 09 6th International Workshop on Memetic Algorithms, IEEE Symposium Series on Computational Intelligence, Nashville, USA

Feb-Apr 09 Member of the Review Team for the book "Computational Intelligence in Expensive Optimization Problems", Y. Tenne and C.-K. Goh eds., Studies in Evolutionary Learning and Optimization, Springer

Jul-Nov 08 Member of the Review Team for the book "Nature-Inspired Algorithms for Optimisation", R. Chiong ed., Studies in Computational Intelligence, Springer

Jul-Nov 08 Member of the Review Team for the book "Nature-Inspired Informatics for Intelligent Applications and Knowledge Discovery: Implications in Business, Science and Engineering", R. Chiong ed., IGI Publisher

Oct 08 2008 IEEE International Conference on System Man and Cybernetics, Singapore

Oct 08 Workshop on Computational Optimization, International Multiconference on Computer Science and Information Technology, Wisla, Poland

Jun 08 2008 IEEE World Congress on Computational Intelligence, Member of Technical Committee and Special Session Committee, Hong Kong

Mar 08 5th Europ. Works. on Evolutionary Computation in Stochastic and Dynamic Environments, EvoStoc2008, Naples, Italy

Feb 08 External Assessor of the Research Committee, Research Grants Office, City University of Hong Kong

Sep 07 2007 IEEE Congress on Evolutionary Computation, Special Session on Evolutionary Computation for Expensive Optimization Problems, Singapore

Jul 07 EvoDOP-2007, Evolutionary Algorithms for Dynamic Optimization Problems, Workshop as part of the Genetic and Evolutionary Computation Conference (GECCO-2007), London UK

Apr 07 4th Europ. Works. on Evolutionary Algorithms in Stochastic and Dynamic Environments

Jul 06 IEEE WCCI, Special Session Evolutionary Computation in Dynamic And Uncertain Environments (EciDUE06), Vancouver, Canada

Apr 06 3rd Europ. Works. on Evolutionary Algorithms in Stochastic and Dynamic Environments, Budapest, Hungary

Dec 05 1st Intern. Works. on Optimization Problems in Engineering IWOPE 2005, Yaroslavl, Russia

Jul 05 12th ISPE International Conference on Concurrent Engineering: Research and Applications CE2005

Apr 05 2nd Europ. Works. on Evolutionary Algorithms in Stochastic and Dynamic Environments, Lausanne, Switzerland

Scientific Societies

Jan 11-today **Chair of the Task Force on Memetic Computing**, Technical Committee on Emergent Technologies IEEE Computational Intelligence Society

Sep 08- today Member of the Task Force on Evolutionary Computation in Dynamic and Uncertain Environments (ECiDUE), Technical Committee on Evolutionary Computation, IEEE Computational Intelligence Society

Oct 07-today Member of the Task Force on Memetic Computing, Technical Committee on Emergent Technologies IEEE Computational Intelligence Society

Jul 04-today Founding Member of Stochastic Cybernetics Adaptive Logistic Engineering (SCALE) society

Oct 03-today IEEE Member

Journal Reviewer

Information Sciences, Elsevier

Applied Soft Computing, Elsevier

The Open Access Signal Processing Journal

IEEE Transactions on Parallel and Distributed Systems

Journal of Algorithms, Elsevier

Memetic Computing Journal, Springer

Iranian Journal of Electrical and Computer Engineering (IJECE)

Modelling and Simulation in Engineering, Hidawi Press

Evolutionary Computation Journal, MIT Press

IEEE Transactions on Evolutionary Computation

Soft Computing Journal, Springer

IEEE Computational Intelligence Magazine

International Journal of Systems Science, Taylor & Francis

IEEE Industrial Electronics Magazine

IEEE Transactions on Industrial Electronics

IEEE Transactions on System Man and Cybernetics – part B and C

International Journal of Computational Science and Engineering (IJCSE), Inderscience Publisher

Externally Funded Projects

Sep 2009 - Aug 2014 Academy Research Fellowship, Academy of Finland, project “Algorithmic Design Issues in Memetic Computing”, amount 381830 €, Principal Investigator

Jan 2011-Dec 2013 Postdoctoral Project, Academy of Finland, project “Algorithmic Design and Software Implementation: a Novel Optimization Platform”, amount 287831 €, Group Leader

Jan-Dec 2009 INRIA project “Shape Optimization with Uncertainties and Multicriterion Optimization in Concurrent Engineering”, amount 10000 €, Responsible Scientist for Finland

Aug – Sep 2008 Walter Karplus Summer Research Grant, IEEE Computational Intelligence Society, amount 3000\$, Supervisor

Awards and Bursaries

Jan-Mar 2011 Research Mobility Program to Nanyang Technological University, Singapore received from University of Jyväskylä, amount 4000€

Feb 09 Most Active Researcher Award, received from the Faculty Information Technology, University of Jyväskylä, Finland

Sep 07 Student Travel Grant IEEE CEC 2007, received from IEEE Computational Intelligence Society, amount 700\$

Apr 07 Travel Bursary EvoStar2007 received from Napier University, UK, amount 400€

Apr 06 Travel Bursary EuroGP2006, EvoCOP2006, EvoWorkshops 2006, received from Napier University, UK, amount 400€

May 04	Young Researcher Award received from IEEE, Industrial Electronics Society, amount, amount 500\$
Aug 03	Travel Bursary 13 th Jyväskylä Summer School, Finland, amount 300€
International Visits	
Feb-Mar 11	Nanyang Technological University, Singapore, Visiting Professor, Project “Ockham Razor in Memetic Computing”
Feb 10	Nanyang Technological University, Singapore, Visiting Professor, Project “Algorithmic Design Issues in Memetic Computing”
Jul 08	University of Newcastle, Australia, Visiting Research Associate
Dec 06-Jan 07	University of Jyväskylä, Finland, Department of Mathematical Information Technology, Research Project: “Memetic Differential Evolution in Image Processing”
Apr-Oct 06	University of Jyväskylä, Finland, Department of Mathematical Information Technology, Research Project: “Memetic Algorithms in P2P Networks and Image Processing”
Dec 05-Jan 06	Yaroslavl’ State University, Laboratory of Digital Circuits and Signals, Research Project “Advanced Optimization Methods in Image Processing”
Aug-Sep 05	University of Jyväskylä, Finland, Department of Mathematical Information Technology, Research Project: “Hierarchical Evolutionary Algorithms and Noise Compensation via Adaptation”
May-Jun 05	University of Jyväskylä, Finland, Department of Mathematical Information Technology, Research Project: “An Evolutionary Approach in HIV Therapy”
Jan-May 04	Yaroslavl’ State University, Russia, Laboratory of Theoretical Probabilistic Methods, Research Project: “Stochastic Control of the Population in Quasi-Genetic Algorithms”

RESEARCH INTERESTS

Memetic Algorithms, Differential Evolution, Evolutionary Optimization in the presence of Uncertainties, Computationally Expensive Optimization Problems

LANGUAGES

Italian	Native Speaker
English	Excellent. Certificates in English as a Foreign Language received from the International Language Centre, 6 th and 7 th level (top level), Southampton, UK, 1994, Brighton, UK, 1995, respectively
French	Fair
Russian	Fair
Finnish	Fair, Suomi Henk. 1, Suomi Henk. 2, Suomi 1 Keskustelua

COMPUTER LITERACY

Programming Languages	C/C++, Fortran, Matlab, Visual Basic
Technical Software	MathCad, AutoCad, Pspice, Ansys Serenade, PLC Programming
Data Base	Oracle (SQL, SQL*PLUS, PL/SQL)

LIST OF PUBLICATIONS

Books

- [B1] F. Neri, C. Cotta, P. Moscato (Eds.), Handbook of Memetic Algorithms, Studies in Computational Intelligence, Springer, Vol. 379, October 2011
- [B2] C. Di Chio, S. Cagnoni, C. Cotta, M. Ebner, A. Ekárt, A. I. Esparcia-Alcázar, J. J. Merelo, F. Neri, M. Preuss, H. Richter, J. Togelius, G. N. Yannakakis (Eds.), Applications of Evolutionary Computation, part I, Lecture Notes in Computer Science, Volume 6624, Springer, April 2011
- [B3] C. Di Chio, S. Cagnoni, C. Cotta, M. Ebner, A. Ekart, A. I. Esparcia-Alcazar, C.-K. Goh, J. J. Merelo, F. Neri, M. Preuss, J. Togelius, G. N. Yannakakis (Eds.), Applications of Evolutionary Computation, Lecture Notes in Computer Science, Volume 6024, Springer, April 2010
- [B4] M. Giacobini, A. Brabazon, S. Cagnoni, G. A. Di Caro, A. Ekart, A. I. Esparcia-Alcazar, M. Farooq, A. Fink, P.

Journal Editorship

[JE1] C.-K. Goh, F. Neri. Special Issue on Computational Intelligence in the Presence of Uncertainties, International Journal of Systems Science, Taylor and Francis, to appear

[JE2] F. Neri, S. Yang, Thematic Issue on Memetic Computing in the Presence of Uncertainties, Memetic Computing Journal, Springer, Volume 2, Issue 2, June 2010, editorial published at pages 85-86

[JE3] Y.-S. Ong, M. H. Lim, F. Neri, H. Ishibuchi, Special Issue on Emerging Trends in Soft Computing - Memetic Algorithms, Soft Computing - A Fusion of Foundations, Methodologies and Applications, Springer, Volume 13, Issue 8, July 2009, editorial published at pages 739-740

Refereed Journal Articles

[J1] G. Iacca, F. Neri, E. Mininno, "Noise Analysis Compact Differential Evolution", International Journal of Systems Science, Taylor and Francis, to appear

[J2] G. Iacca, F. Neri, E. Mininno, Y.S. Ong, M.H. Lim, "Ockham's Razor in Memetic Computing: Three Stage Optimal Memetic Exploration", Information Sciences, Elsevier, to appear

[J3] F. Neri, C. Cotta, "Memetic Algorithms and Memetic Computing Optimization: A Literature Review", Swarm and Evolutionary Computation, Elsevier, to appear

[J4] M. Weber, F. Neri, V. Tirronen, "A Study on Scale Factor/Crossover Interaction in Distributed Differential Evolution", Artificial Intelligence Review, to appear

[J5] M. Weber, F. Neri, V. Tirronen, "Shuffle Or Update Parallel Differential Evolution for Large Scale Optimization", Soft Computing-A Fusion of Foundations, Methodologies and Applications, Springer, Volume 15, Number 11, pages 2089-2107, October 2011

[J6] F. Neri, G. Iacca, E. Mininno, "Disturbed Exploitation Compact Differential Evolution for Limited Memory Optimization Problems", Information Sciences, Elsevier, Volume 181, Issue 12, pages 2469-2487, June 2011

[J7] M. Weber, F. Neri, V. Tirronen, "A Study on Scale Factor in Distributed Differential Evolution", Information Sciences, Elsevier, Volume 181, Issue 12, pages 2488-2511, June 2011

[J8] G. Iacca, E. Mininno, F. Neri, "G. Iacca, E. Mininno, F. Neri, Composed compact Differential Evolution", Evolutionary Intelligence, Springer, Volume 4, Issue 1, pages 17-29, March 2011

[J9] E. Mininno, F. Neri, F. Cupertino, D. Naso, "Compact Differential Evolution", IEEE Transactions on Evolutionary Computation, Volume 15, Issue 1, pages 32-54, February 2011

[J10] M. Weber, F. Neri, V. Tirronen, "Two Algorithmic Enhancements for Parallel Differential Evolution", International Journal of Innovative Computing and Applications, Inderscience, Volume 3, Issue 1, pages 20-30, January 2011

[J11] M. Weber, V. Tirronen, F. Neri, "Scale Factor Inheritance Mechanism in Distributed Differential Evolution", Soft Computing-A Fusion of Foundations, Methodologies and Applications, Springer, Volume 14, Issue 11, pages 1187-1207, September 2010

[J12] E. Mininno, F. Neri, "A Memetic Differential Evolution Approach in Noisy Optimization", Memetic Computing Journal, Springer, Volume 2, Issue 2, pages 111-135, June 2010

[J13] F. Neri, E. Mininno, "Memetic Compact Differential Evolution for Cartesian Robot Control", IEEE Computational Intelligence Magazine, Volume 5, Issue 2, pages 54-65, May 2010

[J14] F. Neri, A. Caponio, "A Differential Evolution for Optimisation in Noisy Environment", International Journal of Bio-inspired Computation, Inderscience, Volume 2, Issue 3/4, pages 152-168, May 2010

[J15] F. Neri, V. Tirronen, "Recent Advances in Differential Evolution: A Review and Experimental Analysis", Artificial Intelligence Review, Springer, Volume 33, Issue 1, pages 61-106, February 2010

[J16] N. Salvatore, A. Caponio, F. Neri, S. Stasi, G. L. Cascella, "Optimization of Delayed-State Kalman Filter-based Algorithm via Differential Evolution for Sensorless Control of Induction Motors", IEEE Transactions on Industrial Electronics, Volume 57, Issue 1, pages 385-394, January 2010

[J17] M. Weber, F. Neri, V. Tirronen, "Distributed Differential Evolution with Explorative-Exploitative Population Families", Genetic Programming and Evolvable Machines, Springer, Volume 10, Issue 4, pages 343-371, December 2009

[J18] A. Caponio, F. Neri, V. Tirronen, "Super-fit Control Adaptation in Memetic Differential Evolution Frameworks", Soft Computing-A Fusion of Foundations, Methodologies and Applications, Springer, Volume 13, Issue 8, pages 811-831, July 2009

[J19] F. Neri, V. Tirronen, "Scale Factor Local Search in Differential Evolution", Memetic Computing Journal, Springer, Volume 1, Issue 2, pages 153-171, June 2009

[J20] V. Tirronen, F. Neri, T. Kärkkäinen, K. Majava, T. Rossi, "An Enhanced Memetic Differential Evolution in Filter Design for Defect Detection in Paper Production", Evolutionary Computation Journal, MIT Press, Volume 16, Issue 4, pages 529-555, Winter 2008

[J21] F. Neri, X. del Toro Garcia, G. L. Cascella, N. Salvatore, "Surrogate Assisted Local Search on PMSM Drive

- Design” , COMPEL: International Journal for Computation and Mathematics in Electrical and Electronic Engineering, Volume 27, Issue 3, pages 573-592, July 2008
- [J22] F. Neri, J. Toivanen, R. Mäkinen, “An Adaptive Evolutionary Algorithm with Intelligent Mutation Local Searchers for Designing Multidrug Therapies for HIV”, Applied Intelligence, Springer, Volume 27, Issue 3, pages 219-235, December 2007
- [J23] F. Neri, J. Toivanen, G. L. Cascella, Y.-S. Ong, “An Adaptive Multimeme Algorithm for Designing HIV Multidrug Therapies”, IEEE/ACM Transactions on Computational Biology and Bioinformatics, Volume 4, Issue 2, pages 264-278, April 2007
- [J24] A. Caponio, G. L. Cascella, F. Neri, N. Salvatore, M. Sumner, “A Fast Adaptive Memetic Algorithm for Off-line and On-line Control Design of PMSM Drives”, IEEE Transactions on Systems, Man and Cybernetics – Part B, Volume 37, Issue 1, pages 28-41, February 2007
- [J25] G. Delvecchio, C. Lofrumento, F. Neri, M. Sylos Labini “A Fast Evolutionary-Deterministic Algorithm to study Multimodal Current Fields under Safety Level Constraints”, COMPEL: International Journal for Computation and Mathematics in Electrical and Electronic Engineering, Volume 25, Issue 3, pages 599-608, Emerald, July 2006
- [J26] M. Sylos Labini, M. Castellitti, G. Delvecchio, F. Neri, “A Genetic Algorithm to Design Meshed Square Grounding Grids Having the Conductors Arranged with Exponential Regularity”, GESTS International Transaction on Computer Science and Engineering, Volume 26, Number 1, pages 95-106, Sunjin Publishing Co, January 2006
- [J27] G. L. Cascella, F. Neri, N. Salvatore, G. Acciani, F. Cupertino, “Hybrid Eas For Backup Sensorless Control of Pmsm Drives” WSEAS Transactions on Systems, Volume 5, Issue 1, pages 131–135, January 2006
- [J28] F. Neri, G. L. Cascella, N. Salvatore, G. Acciani, D. A. Gassi, “A Hierarchical Evolutionary-Deterministic Algorithm in Topological Optimization of Electrical Grounding Grids” WSEAS Transactions on Systems, Volume 4, Issue 12, pages 2338–2345, December 2005
- [J29] G. Delvecchio, E. Di Sciascio, S. Grassi, F. Neri, M. Sylos Labini “Some Geometrical and Evolutionary Procedures for Optimizing the Calculation Times of 3-D Current Fields by the Finite Element Method”, COMPEL: International Journal for Computation and Mathematics in Electrical and Electronic Engineering, Volume 24, Issue 3, pages 984-996, Emerald, July 2005
- [J30] F. Neri, A. Kononova “The Role of the Population Size in Quasi-Genetic Algorithms”, GESTS International Transaction on Computer Science and Engineering, Volume 10, Number 1, pages 61-72, Sunjin Publishing Co., June 2005
- [J31] F. Neri, A. Kononova, G. Delvecchio, M. Sylos Labini, A. Uglanov “A Hierarchical Evolutionary Algorithm with Uncertain Fitness and Decision Space Restriction in Structural Optimization Problems”, GESTS International Transaction on Computer Science and Engineering, Volume 7, Number 1, pages 39-50, Sunjin Publishing Co., May 2005
- [J32] M. Sylos Labini, A. Covitti, G. Delvecchio, F. Neri “A <<Quasi-Genetic>> Algorithm for searching the dangerous areas generated by a grounding system”. COMPEL: International Journal for Computation and Mathematics in Electrical and Electronic Engineering , Volume 23, Issue 3, pages 724-732, Emerald, July 2004

Refereed Book Chapters

- [BC1] F. Neri, G. Iacca, E. Mininno, “Compact Optimization”, I. Zelinka, V. Snasel, A. Abraham (Eds.) Handbook of Optimization, Intelligent Systems, Springer, to appear
- [BC2] T. Weise, R. Chiong, Z. Michalewicz, F. Neri, M. Clerc, C. Blum, K. De Jong, “Evolutionary Optimization”, T. Weise, R. Chiong (Eds.), Variants of Evolutionary Algorithms for Real World Applications, pages 1-29, Springer, November 2011
- [BC3] F. Neri, C. Cotta, “Basic Concepts”, F. Neri, C. Cotta, P. Moscato (Eds.), Handbook of Memetic Algorithms, Studies in Computational Intelligence, Vol. 379, pages 3-9, Springer, October 2011
- [BC4] F. Neri, C. Cotta, “A Primer on Memetic Algorithms”, F. Neri, C. Cotta, P. Moscato (Eds.), Handbook of Memetic Algorithms, Studies in Computational Intelligence, Vol. 379, pages 43-52, Springer, October 2011
- [BC5] M. Montes de Oca, C. Cotta, F. Neri, “Local Search”, F. Neri, C. Cotta, P. Moscato (Eds.), Handbook of Memetic Algorithms, Studies in Computational Intelligence, Vol. 379, pages 29-41, Springer, October 2011
- [BC6] C. Cotta, F. Neri, “Memetic Algorithms in Continuous Optimization”, F. Neri, C. Cotta, P. Moscato (Eds.), Handbook of Memetic Algorithms, Studies in Computational Intelligence, Vol. 379, pages 121-134, Springer, October 2011
- [BC7] F. Neri, “Diversity Management in Memetic Algorithms”, F. Neri, C. Cotta, P. Moscato (Eds.), Handbook of Memetic Algorithms, Studies in Computational Intelligence, Vol. 379, pages 153-165, Springer, October 2011
- [BC8] A. Caponio, F. Neri, “MAs in Engineering and Design”, F. Neri, C. Cotta, P. Moscato (Eds.), Handbook of Memetic Algorithms, Studies in Computational Intelligence, Vol. 379, pages 241-260, Springer, October 2011
- [BC9] A. Caponio, A. Kononova, F. Neri, “Differential Evolution with Scale Factor Local Search for Large Scale Problems”, Y. Tenne, C.-K. Goh eds. Computational Intelligence in Expensive Optimization Problems, Studies in Evolutionary Learning and Optimization, Vol. 2, pages 297-323, chapter 12, Springer, February 2010
- [BC10] R. Chiong, F. Neri, R. McKay, “Nature that Breeds Solutions”, R Chiong ed., Nature-Inspired Informatics for Intelligent Applications and Knowledge Discovery: Implications in Business, Science and Engineering, pages 1-24,

IGI, July 2009

[BC11] F. Neri, V. Tirronen, "Memetic Differential Evolution Frameworks in Filter Design for Defect Detection in Paper Production", S. Cagnoni ed., *Evolutionary Image Analysis and Signal Processing, Studies in Computational Intelligence*, Vol. 213, pages 113-131, Springer, August 2009

[BC12] V. Tirronen, F. Neri, "Differential Evolution with Fitness Diversity Self-Adaptation", R. Chiong ed., *Nature-Inspired Algorithms for Optimisation, Studies in Computational Intelligence*, Vol. 193, pages 199-234, Springer, May 2009

[BC13] A. Caponio, F. Neri, "Integrating Cross-Dominance Adaptation in Multi-objective Memetic Algorithms", Y.-S. Ong, K. C. Tan, C.-K. Goh eds., *Multi-Objective Memetic Algorithms, Studies in Computational Intelligence*, Vol. 171, pages 325-351, Springer, January 2009

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