



ROMÂNIA
UNIVERSITATEA BABEŞ-BOLYAI CLUJ-NAPOCA

Str. Mihail Kogălniceanu, nr. 1, 400084 Cluj-Napoca
Tel. (00) 40 - 264 - 40.53.00*; 40.53.01; 40.53.02 ; 40.53.22
Fax: 40 - 264 - 59.19.06
E-mail: staff@staff.ubbcluj.ro

RECTORATUL

Universitatea Babeş-Bolyai Competiția Excelenței 2010

Dosar individual

Notă: Toate datele se referă la perioada 2005-2009

Nume, prenume, grad did.	OLTEAN MIHAI, CONFERENȚIAR
Facultatea, Catedra	Matematica si Informatica, Limbaje de Programare
Domeniul științific	Roboti Inteligenti, Calcul neconventional, Calcul evolutiv
Adresa paginii web personale	www.cs.ubbcluj.ro/~moltean
Adresa e-mail	moltean@cs.ubbcluj.ro

Criteriaul I – Output

1. Articole științifice publicate în reviste indexate ISI (cu menționare factorului de impact în cazul celor cotate)

#	articol	IF
1	Oltean Mihai, Evolving Evolutionary Algorithms using Linear Genetic Programming, Evolutionary Computation, MIT Press, Vol. 13, Issue 3, pp. 387-410, 2005.	3
2	Oana Muntean, Mihai Oltean, Using light for solving the unbounded subset-sum problem, IJICIC, Vol 5, Issue 8, 2159-2167, 2009	2,79
3	Mihai Oltean, Laura Diosan, An autonomous GP-based system for regression and classification problems, Applied Soft Computing, Vol. 9, Issue 1, pp. 49-60, 2009	1,9
4	Oltean Mihai, Evolving Evolutionary Algorithms with Patterns, Soft Computing, Springer-Verlag, Vol. 11, Issue 6, pp. 503-518, 2007	0,98
5	Grosan C., Oltean Mihai, Adaptive Representation for Single Objective Optimization, Soft Computing, Springer-Verlag, 9(8): 594-605, 2005.	0,98
6	Oana Muntean, Mihai Oltean, Deciding whether a linear Diophantine equation has solutions by using a light-based device, Journal of Optoelectronics and Advanced Materials, Vol. 11, Issue 11, pp. 1728-1734, 2009	0,8
7	Mihai Oltean, Crina Grosan, Laura Diosan, Cristina Mihaila, Genetic Programming with linear representation: a survey, International Journal on Artificial Intelligence Tools, World Scientific, Vol. 19, Issue 2, pp. 197-238, 2009	0,67
8	Diosan L., Oltean Mihai, Evolving the Update Strategy of the Particle Swarm Optimisation Algorithms, International Journal on Artificial Intelligent Tools, Vol. 16, Issue 1, pp. 87-110, World-Scientific, 2009	0,67
9	Oltean Mihai, Grosan C., Using Traceless Genetic Programming for Solving Multiobjective Optimization Problems, Journal of Experimental and Theoretical Artificial Intelligence, Taylor & Francis, Vol. 19, pp. 227-248, 2007	0,34
10	Mihai Oltean: A-Brain: a general system for solving data analysis problems. J. Exp. Theor. Artif. Intell. 19(4): 333-353 (2007)	0,34

	Oltean Mihai, Muntean Oana, Exact Cover with Light, New Generation	
11	Computing, Springer-Verlag, Vol. 26, Issue 4, pp. 327-344, 2008	0,2
	Oltean Mihai, Muntean Oana, Solving the subset sum problem with a light-based	
12	computer, Natural Computing, Springer-Verlag, Vol 8, Issue 2, pp. 321-331, 2009	0
	Oltean Mihai, Light-based string matching, Natural Computing, Springer-Verlag, Vol.	
13	8, Issue 2, pp. 121-132, 2009	0
	Diosan Laura, Mihai Oltean, Evolutionary design of Evolutionary Algorithms, Genetic	
14	Programming and Evolvable Machines, Springer, Vol 10, Issue 3, pp. 263-306, 2009	0
	Oltean Mihai, Solving the Hamiltonian path problem with a light-based	
15	computer, Natural Computing, Springer-Verlag, Vol 6, Issue 1, pp. 57-70, 2008	0

2. Articole științifice publicate în ISI proceedings

- Mihai Oltean, Oana Muntean, Evolutionary design of graph-based structures for optical computing, in proceedings of the second workshop on Optical SuperComputing, OSC 2009, LNCS 5882, Springer-Verlag, 2009.
- Mihai Oltean, Oana Muntean, Solving NP-Complete Problems with Delayed Signals: An Overview of Current Research Directions, in proceedings of 1st international workshop on Optical SuperComputing, LNCS 5172, pp. 115-128, Springer-Verlag, 2008
- Muntean, Oana; Oltean, Mihai, Processing Bank Checks with Genetic Programming and Histograms, Bio-inspired, Learning, and Intelligent Systems for Security, BLISS 2007, pp. 102-105, IEEE Press, 2007
- Dioșan, L., Oltean, Mihai, Who's better? PESA or NSGA II?, The International Conference on Intelligent Systems Design and Applications, Workshop on Evolutionary Multiobjective Optimization: Design and Applications, Brazil, October 22th - 24th, 2007, pp. 869-874, IEEE CS Press
- Muntean O., Dioșan, L., Oltean, Mihai, Solving the even-n-parity problems using Best Sub Tree Genetic Programming, Adaptive Hardware Systems 2007, pp. 511-518, IEEE Press, 2007
- Oltean Mihai, Liquid State Genetic Programming, International Conference on Adaptive and Natural Computing Algorithms, Warsaw, Poland, ICANNGA 2007, B. Beliczynski et al. (Eds.), Part I, LNCS 4431, Springer-Verlag, pp. 220-229, 2007
- Diosan L, Oltean Mihai, (et al.), Improving SVM Performance using a Linear Combination of Kernels, International Conference on Adaptive and Natural Computing Algorithms, ICANNGA 2007, B. Beliczynski et al. (Eds.), Part II, LNCS 4432, Springer-Verlag, pp. 218-227, 2007.
- Oltean Mihai, A light-based device for solving the Hamiltonian path problem, Unconventional Computing, Calude C. (et al.)(Eds), LNCS 4135, pp. 217-227, Springer-Verlag, 2006
- Oltean Mihai, Switchable Glass: A possible medium for Evolvable Hardware, NASA conference on Adaptive Hardware Systems, Stoica A., et al. (Eds), pp 81-87, IEEE CS Press, 2006
- Dioșan, L., Oltean, Mihai, Evolving crossover operators for function optimization, European Conference on Genetic Programming, LNCS, Springer-Verlag, pp. 97-108, 2006
- Dioșan, L., Oltean Mihai., Evolving the structure of the Particle Swarm Optimization algorithms, European Conference on Evolutionary Computation in Combinatorial Optimization, LNCS, Springer-Verlag, pp. 25-36, 2006.
- Oltean Mihai, Evolving reversible circuits for the even-parity problem, EvoHOT workshop, Lausanne, Switzerland, Applications of Evolutionary Computing, Rothlauf, F.; et al. (Eds.), LNCS 3449, pp. 225-234, Springer-Verlag, Berlin, 2005.
- Muntean O., Dioșan, L., Oltean, M., Best SubTree Genetic Programming, GECCO 2007, pp. 1667 - 1673, ACM Press, 2007.
- Dioșan, L., Oltean, Mihai, A. Rogozan, J. P. Pecuchet, Genetically Designed Multiple-Kernels

- for Improving the SVM Performance, GECCO 2007, pp. 1873, 2007
Dioşan, L., Oltean, Mihai, Evolving Evolutionary Algorithms using Evolutionary Algorithms,
15 GECCO 2007, 2442-2449, ACM Press
Dioşan, L., Oltean, Mihai, Observing the swarm behavior during its evolutionary
16 design, GECCO 2007, 2667-2674, ACM Press
Oltean, M , et al. Multiobjective optimization using adaptive pareto archived evolution
strategy, 5th International Conference on Intelligent Systems Design and Applications,
17 Proceedings Pages: 558-563: 2005

3. Articole ştiinţifice indexate în BDI (din lista CNCISIS)

Mihai Oltean, *Unconventional Computing: a short introduction*, Studia Universitatis Babes-Bolyai, Vol. LIV, Issue 1, pp. 85-96, 2009

4. Alte articole ştiinţifice/capitole publicate în reviste/volume cu referenţi (peer-reviewed)

-

5. Cărţi ştiinţifice publicate în edituri internaţionale

-

6. Cărţi ştiinţifice publicate în edituri naţionale acreditate

-

7. Editor de volume publicate în edituri naţionale şi internaţionale

1. Optical Supercomputing 2008, LNCS, Springer

2. Optical Supercomputing 2009, LNCS, Springer

8. Brevete internaţionale

-

9. Brevete naţionale

-

10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase în relaţie cu economia

-

11. Realizări artistice naţionale şi internaţionale (Domeniul Arte)

(Expoziţii, spectacole, concerte, publicaţii, filme, înregistrări)

Criteria II – Prestigiu profesional

1. Citări ale articolelor ISI listate la Criteriul I

1. Title: [Evolving evolutionary algorithms using linear genetic programming](#)

Author(s): Oltean, M

Source: **EVOLUTIONARY COMPUTATION** Volume: 13 Issue: 3 Pages: 387-410 Published: FAL 2005

11 Citari:

- Title: [A Gender-Based Genetic Algorithm for the Automatic Configuration of Algorithms](#)
Author(s): Ansotegui C, Sellmann M, Tierney K
Conference Information: 15th International Conference on Principles and Practice of Constraint Programming (CP 2009), SEP 20-24, 2009 Lisbon, PORTUGAL Source: **PRINCIPLES AND PRACTICE OF CONSTRAINT PROGRAMMING** Book Series: **Lecture Notes in Computer Science** Volume: 5732 Pages: 142-157 Published: 2009
Times Cited: 0
- 3. Title: [GENETIC PROGRAMMING WITH LINEAR REPRESENTATION: A SURVEY](#)
Author(s): Oltean M, Grosan C, Diosan L, et al. Source: **INTERNATIONAL JOURNAL ON ARTIFICIAL INTELLIGENCE TOOLS** Volume: 18 Issue: 2 Pages: 197-238 Published: APR 2009
Times Cited: 0
- 4. Title: [Evolution of Search Algorithms Using Graph Structured Program Evolution](#)
Author(s): Shirakawa S, Nagao T
Conference Information: 12th European Conference on Genetic Programming, APR 15-17, 2009 Eberhard Karls Univ, Tubingen, GERMANY Source: **GENETIC PROGRAMMING** Book Series: **LECTURE NOTES IN COMPUTER SCIENCE** Volume: 5481 Pages: 109-120 Published: 2009
Times Cited: 1
- 5. Title: [There Is a Free Lunch for Hyper-Heuristics, Genetic Programming and Computer Scientists](#)
Author(s): Poli R, Graff M
Conference Information: 12th European Conference on Genetic Programming, APR 15-17, 2009 Eberhard Karls Univ, Tubingen, GERMANY Source: **GENETIC PROGRAMMING** Book Series: **LECTURE NOTES IN COMPUTER SCIENCE** Volume: 5481 Pages: 195-207 Published: 2009
Times Cited: 0
- 6. Title: [Automatic Configuration of Metaheuristic Algorithms for Complex Combinatorial Optimization Problems](#)
Author(s): Xu YL, Lim MH, Ong YS
Conference Information: IEEE Congress on Evolutionary Computation, JUN 01-06, 2008 Hong Kong, PEOPLES R CHINA Source: **2008 IEEE CONGRESS ON EVOLUTIONARY COMPUTATION, VOLS 1-8** Book Series: **IEEE Congress on Evolutionary Computation** Pages: 2380-2387 Published: 2008
Times Cited: 0
- 7. Title: [Toward Subheuristic Search](#)
Author(s): Keller RE, Poli R
Conference Information: IEEE Congress on Evolutionary Computation, JUN 01-06, 2008 Hong Kong, PEOPLES R CHINA Source: **2008 IEEE CONGRESS ON EVOLUTIONARY COMPUTATION, VOLS 1-8** Book Series: **IEEE Congress on Evolutionary Computation** Pages: 3148-3155 Published: 2008
Times Cited: 0
- 8. Title: [Self-adaptive Hyperheuristic and Greedy Search](#)
Author(s): Keller RE, Poli R
Conference Information: IEEE Congress on Evolutionary Computation, JUN 01-06, 2008 Hong Kong, PEOPLES R CHINA Source: **2008 IEEE CONGRESS ON EVOLUTIONARY COMPUTATION, VOLS 1-8** Book Series: **IEEE Congress on Evolutionary Computation** Pages: 3801-3808 Published: 2008
Times Cited: 0
- 10. Title: [Linear Genetic Programming of parsimonious metaheuristics](#)
Author(s): Keller RE, Poli R
Conference Information: IEEE Congress on Evolutionary Computation, SEP 25-28, 2007 Singapore, SINGAPORE Source: **2007 IEEE CONGRESS ON EVOLUTIONARY COMPUTATION, VOLS 1-10, PROCEEDINGS** Book Series: **IEEE Congress on Evolutionary Computation** Pages: 4508-4515 Published: 2007
Times Cited: 2

11. Title: [Cost-benefit investigation of a genetic-programming hyperheuristic](#)
 Author(s): Keller RE, Poli R
 Conference Information: 8th International Conference on Artificial Evolution, OCT 29-31, 2007 Tours, FRANCE
 Source: **ARTIFICIAL EVOLUTION** Book Series: **LECTURE NOTES IN COMPUTER SCIENCE** Volume: **4926** Pages: **13-24** Published: **2008**
 Times Cited: [1](#)
- Title: [Reducing initial edge set of traveling salesman problems](#)
 12. Author(s): Wang D, Wu XB, Mao XC, et al.
 Conference Information: 6th International Conference on Machine Learning and Cybernetics, AUG 19-22, 2007 Hong Kong, PEOPLES R CHINA
 Source: **PROCEEDINGS OF 2007 INTERNATIONAL CONFERENCE ON MACHINE LEARNING AND CYBERNETICS, VOLS 1-7** Pages: **2333-2338** Published: **2007**
 Times Cited: [1](#)

2. Title: [A light-based device for solving the Hamiltonian path problem](#)

Author(s): Oltean, M

Source: **UNCONVENTIONAL COMPUTATION, PROCEEDINGS** Volume: 4135 Pages: 217-227 Published: 2006

4 citari:

- Title: [Optical computing](#)
 2. Author(s): Woods D, Naughton TJ
 Conference Information: International Workshop on Physics and Computation, AUG 25-28, 2008 Vienna, AUSTRIA
 Source: **APPLIED MATHEMATICS AND COMPUTATION** Volume: **215** Issue: **4** Pages: **1417-1430** Published: **OCT 15 2009**
 Times Cited: **0**
- Title: [Ultra-fast wave-optical computing - art. no. 70720M](#)
 4. Author(s): Haist T
 Conference Information: Conference on Optics and Photonics for Information Processing II, AUG 13-14, 2008 San Diego, CA
 Source: **OPTICS AND PHOTONICS FOR INFORMATION PROCESSING II** Book Series: **PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE)** Volume: **7072** Pages: **M720-M720** Published: **2008**
 Times Cited: **0**
- Title: [Ultrafast Digital-Optical Arithmetic Using Wave-Optical Computing](#)
 5. Author(s): Haist T, Osten W
 Conference Information: 1st International Workshop on Optical SuperComputing, AUG 26, 2008 Vienna, AUSTRIA
 Source: **OPTICAL SUPERCOMPUTING, PROCEEDINGS** Book Series: **LECTURE NOTES IN COMPUTER SCIENCE** Volume: **5172** Pages: **33-45** Published: **2008**
 Times Cited: [2](#)
- Title: [An optical solution for the traveling salesman problem \(vol 15, pg 10473, 2007\)](#)
 8. Author(s): Haist T, Osten W
 Source: **OPTICS EXPRESS** Volume: **15** Issue: **20** Pages: **12627-12627** Published: **OCT 1 2007**
 Times Cited: [5](#)

Title: [Evolving the structure of the particle swarm optimization algorithms](#)

Author(s): Diosan, Oltean

Source: **EVOLUTIONARY COMPUTATION IN COMBINATORIAL OPTIMIZATION, PROCEEDINGS** Volume: 3906 Pages: 25-36, **2006**

4 Citari :

1. Title: [PSOGP: A GENETIC PROGRAMMING BASED ADAPTABLE EVOLUTIONARY HYBRID PARTICLE SWARM OPTIMIZATION](#)
 Author(s): Rashid M, Baig AR
 Source: **INTERNATIONAL JOURNAL OF INNOVATIVE COMPUTING INFORMATION AND CONTROL** Volume: **6** Issue: **1** Special Issue: **Sp. Iss. SI** Pages: **287-296** Published: **JAN 2010**
 Times Cited: **0**
- Title: [Circular Representations of a Valued Preference Matrix](#)
 2. Author(s): Lidouh K, De Smet Y, Huynh MT
 Conference Information: 1st International Conference Algorithmic Decision Theory, OCT 20-23, 2009 Venice,

ITALY Source: **ALGORITHMIC DECISION THEORY, PROCEEDINGS** Book Series: **Lecture Notes in Artificial Intelligence** Volume: **5783** Pages: **261-271** Published: **2009**
Times Cited: **0**

- Title: [NATURE-INSPIRED INTELLIGENCE: A REVIEW OF SELECTED METHODS AND APPLICATIONS](#)
3. Author(s): Vassiliadis V, Dounias G Source: **INTERNATIONAL JOURNAL ON ARTIFICIAL INTELLIGENCE TOOLS** Volume: **18** Issue: **4** Pages: **487-516** Published: **AUG 2009**
Times Cited: **1**

- Title: [Evolution of Search Algorithms Using Graph Structured Program Evolution](#)
4. Author(s): Shirakawa S, Nagao T
Conference Information: 12th European Conference on Genetic Programming, APR 15-17, 2009 Eberhard Karls Univ, Tübingen, GERMANY Source: **GENETIC PROGRAMMING** Book Series: **LECTURE NOTES IN COMPUTER SCIENCE** Volume: **5481** Pages: **109-120** Published: **2009**
Times Cited: **1**

Title: [Improving SVM performance using a linear combination of kernels](#)

Author(s): Diosan, L Oltean M

Source: **Adaptive and Natural Computing Algorithms, Pt 2** Volume: 4432 Pages: 218-227 Published: 2007
2 citari:

1. Title: [An evolutionary method for constructing complex SVM kernels](#)
Author(s): Simian D, Stoica F
Conference Information: 10th WSEAS International Conference on Mathematics and Computers in Biology and Chemistry, MAR 23-25, 2009 Prague, CZECH REPUBLIC Source: **MCBC'09: PROCEEDINGS OF THE 10TH WSEAS INTERNATIONAL CONFERENCE ON MATHEMATICS AND COMPUTERS IN BIOLOGY AND CHEMISTRY** Book Series: **Recent Advances in Biology and Biomedicine** Pages: **172-177** Published: **2009**
Times Cited: **0**

- Title: [A model for a complex polynomial SVM kernel](#)
2. Author(s): Simian D
Conference Information: 8th WSEAS International Conference on Simulation, Modelling and Optimization, SEP 23-25, 2008 Santander, SPAIN Source: **SMO 08: PROCEEDINGS OF THE 8TH WSEAS INTERNATIONAL CONFERENCE ON SIMULATION, MODELLING AND OPTIMIZATION** Book Series: **Mathematics and Computers in Science and Engineering** Pages: **164-169** Published: **2008**
Times Cited: **1**

Title: [Using traceless genetic programming for solving multi-objective optimization problems](#)

Author(s): Oltean,

M

Source: **JOURNAL OF EXPERIMENTAL & THEORETICAL ARTIFICIAL INTELLIGENCE** Volume: 19 Issue: 3 Pages: 227-248 Published: 2007

- Title: [A Multiobjective Evolutionary Conceptual Clustering Methodology for Gene Annotation Within Structural Databases: A Case of Study on the Gene Ontology Database](#)
2. Author(s): Romero-Zaliz RC, Rubio-Escudero C, Cobb JP, et al. Source: **IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION** Volume: **12** Issue: **6** Pages: **679-701** Published: **DEC 2008**
Times Cited: **0**

Title: [Evolving crossover operators for function optimization](#)

Author(s): Diosan, L Oltean M,

Source: **GENETIC PROGRAMMING, PROCEEDINGS** Volume: 3905 Pages: 97-108 Published: 2006

1. Title: [Evolution of Search Algorithms Using Graph Structured Program Evolution](#)
Author(s): Shirakawa S, Nagao T
Conference Information: 12th European Conference on Genetic Programming, APR 15-17, 2009 Eberhard Karls Univ, Tübingen, GERMANY Source: **GENETIC PROGRAMMING** Book Series: **LECTURE NOTES IN COMPUTER SCIENCE** Volume: **5481** Pages: **109-120** Published: **2009**
Times Cited: **1**

Title: [Best SubTree Genetic Programming](#)

Author(s): Muntean, O, Diosan, Oltean

Source: **GECCO 2007: GENETIC AND EVOLUTIONARY COMPUTATION CONFERENCE, VOL 1 AND 2** Pages: 1667-1673 Published: 2007

1. Title: [A survey and taxonomy of performance improvement of canonical genetic programming](#)

Author(s): Kouchakpour P, Zaknich A, Braunl T Source: **KNOWLEDGE AND INFORMATION**

SYSTEMS Volume: 21 Issue: 1 Pages: 1-39 Published: **OCT 2009**

Times Cited: 0

Title: [An autonomous GP-based system for regression and classification problems](#)

Author(s): Oltean, M

Source: **APPLIED SOFT COMPUTING** Volume: 9 Issue: 1 Pages: 49-60 Published: JAN 2009

1. Title: [A Survey on the Application of Genetic Programming to Classification](#)

Author(s): Espejo PG, Ventura S, Herrera F Source: **IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART C-APPLICATIONS AND REVIEWS** Volume: 40 Issue: 2 Pages: 121-144 Published: **MAR 2010**

Times Cited: 0

Title: [Multiobjective optimization using adaptive pareto archived evolution strategy](#)

Author(s): Oltean, M

Source: **5th International Conference on Intelligent Systems Design and Applications, Proceedings** Pages: 558-563 Published: 2005

1. Title: [An efficient multi-objective evolutionary algorithm with steady-state replacement model](#)

Author(s): Srinivasan D, Rachmawati L

Conference Information: 8th Annual Genetic and Evolutionary Computation Conference, JUL 08-12, 2006 Seattle, WA

Source: **GECCO 2006: Genetic and Evolutionary Computation Conference, Vol 1 and 2** Pages: 715-722 Published: 2006

Times Cited: 1

2. Alte citări ale lucrărilor listate mai sus

Harzing's Publish or Perish

Author impact analysis
Perform a citation analysis for one or more authors

Query

Author's name: Biology, Life Sciences, Environmental Science
 Business, Administration, Finance, Economics
 Chemistry and Materials Science
 Engineering, Computer Science, Mathematics
 Medicine, Pharmacology, Veterinary Science
 Physics, Astronomy, Planetary Science
 Social Sciences, Arts, Humanities

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Year of publication between: and:

Results

Papers:	92	Cites/paper:	4.53	h-index:	10	AWCR:	68.93
Citations:	417	Cites/author:	273.33	g-index:	18	AW-index:	8.30
Years:	11	Papers/author:	56.65	hc-index:	10	AWCRpA:	45.07
Cites/year:	37.91	Authors/paper:	2.01	hI-index:	6.67	e-index:	12.77
				hI,norm:	9	hm-index:	8.00

Cites	Per year	Rank	Authors	Title	Year	Publication	Publisher
<input checked="" type="checkbox"/>	60	7.50	1	M Oltean, C Grosan	2003	Lecture notes in computer s...	Springer
<input checked="" type="checkbox"/>	37	4.63	2	M Oltean, C Grosan	2003	Complex Systems	Citeseer
<input checked="" type="checkbox"/>	36	6.00	3	M Oltean	2005	Evolutionary Computation	MIT Press
<input checked="" type="checkbox"/>	29	3.22	4	M Oltean, D Dumitr...	2002	Journal of Genetic Program...	Citeseer
<input checked="" type="checkbox"/>	23	3.29	6	M Oltean, C Grosan	2004	NASA/DoD Conference on E...	Citeseer
<input checked="" type="checkbox"/>	19	3.80	7	M Oltean	2006	Lecture Notes in Computer ...	Springer
<input checked="" type="checkbox"/>	19	0.00	5	M Oltean		Proceedings of the 5th Inter...	Citeseer
<input checked="" type="checkbox"/>	18	6.00	9	M Oltean	2008	Natural Computing	Springer
<input checked="" type="checkbox"/>	11	1.57	8	M Oltean	2004	IEEE Congress on Evolution...	Citeseer
<input checked="" type="checkbox"/>	11	5.50	23	M Oltean, O Muntean	2009	Natural Computing	Springer
<input checked="" type="checkbox"/>	10	1.43	15	M Oltean, D Dumitr...	2004	Lecture Notes in Computer ...	Springer
<input type="checkbox"/>	9	1.13	11	..., H Liden, G Kurlb...	2003	...	interscience.w
<input type="checkbox"/>	9	2.25	22	M Oltean, R Pullerit...	2007	Surgery	Elsevier
<input checked="" type="checkbox"/>	8	1.60	10	L Diosan, M Oltean	2006	Lecture Notes in Computer ...	Springer
<input checked="" type="checkbox"/>	8	2.67	25	M Oltean, O Muntean	2008	New Generation Computing	Springer
<input checked="" type="checkbox"/>	8	1.33	12	M Oltean, C Grosan...	2005	Proceedings of the 5th ...	Citeseer
<input checked="" type="checkbox"/>	7	1.75	24	M Oltean	2007	Soft Computing-A Fusion of ...	Springer
<input checked="" type="checkbox"/>	7	1.00	13	C Grosan, M Oltean	2004	LECTURE NOTES IN COMPU...	Springer
<input checked="" type="checkbox"/>	7	1.00	16	M Oltean, C Grosan...	2004	Lecture Notes in Computer ...	Springer
<input checked="" type="checkbox"/>	7	0.70	14	D Dumitrescu, C Gr...	2001	Studia Universitatis Babes--B...	Citeseer
<input checked="" type="checkbox"/>	6	0.75	19	M Oltean	2003	Proceedings of the 5th Inter...	Citeseer
<input checked="" type="checkbox"/>	6	0.86	20	M Oltean	2004	Lecture notes in computer s...	Springer
<input checked="" type="checkbox"/>	6	0.55	38	M Oltean	2000	Computer Libris Agora, Cluj...	
<input checked="" type="checkbox"/>	6	1.00	17	C Grosan, M Oltean	2005	Soft Computing-A Fusion of ...	Springer
<input checked="" type="checkbox"/>	5	0.00	28	O Mihai		Technical Report, Babes-Bol...	
<input checked="" type="checkbox"/>	5	1.00	21	L Diosan, M Oltean	2006	Lecture Notes in Computer ...	Springer
<input checked="" type="checkbox"/>	5	0.63	18	M Oltean, C Grosan	2003	Lecture notes in computer s...	Springer
<input type="checkbox"/>	5	1.67	29	..., M Olausson, M ...	2008	...	journals.lww.c
<input checked="" type="checkbox"/>	5	1.25	30	L Diosan, M Oltean, ...	2007	Lecture Notes in Computer ...	Springer
<input checked="" type="checkbox"/>	4	0.57	32	M Oltean	2004	STUDIES IN FUZZINESS AN...	Springer
<input checked="" type="checkbox"/>	4	1.33	72	M Oltean, O Muntean	2008	Lecture Notes in Computer ...	Springer
<input checked="" type="checkbox"/>	3	1.50	91	M Oltean	2009	Natural Computing	Springer
<input checked="" type="checkbox"/>	3	1.00	34	L Diosan, M Oltean	2008	Journal of Artificial Evolution...	downloads.hir
<input checked="" type="checkbox"/>	3	0.75	26	O Muntean, L Dios...	2007	... of the 9th annual confere...	portal.acm.or
<input checked="" type="checkbox"/>	3	0.75	27	L Dioş, M Oltean, A ...	2007	Proceedings of the 8th ...	portal.acm.or
<input type="checkbox"/>	3	0.38	39	..., I Ghizdavu, G M...	2003	Journal Central ...	en.scientificc
<input checked="" type="checkbox"/>	2	0.00	42	M Oltean		EvoHOT workshop, Rothlauf...	Springer

artie 2010

3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005

Title: [Evolving evolutionary algorithms using multi expression programming](#)

Author(s): Oltean,

M

Source: **ADVANCES IN ARTIFICIAL LIFE, PROCEEDINGS** Volume: 2801 Pages: 651-658 Published: 2003

5 citari:

- Title: [MERGE: A Novel Evolutionary Algorithm based on Multi Expression Gene Programming](#)
 3. Author(s): Dai SC, Tang CJ, Zhu MF, et al.
 Conference Information: 4th International Conference on Natural Computation (ICNC 2008), OCT 18-20, 2008 Jian, PEOPLES R CHINA
 Source: **ICNC 2008: FOURTH INTERNATIONAL CONFERENCE ON NATURAL COMPUTATION, VOL 1, PROCEEDINGS** Pages: 320-324 Published: 2008
 Times Cited: 0

- Title: [A MEP and IP Based Flexible Neural Tree Model for Exchange Rate Forecasting](#)
 4. Author(s): Ja GF, Chen YH, Wu Q
 Conference Information: 4th International Conference on Natural Computation (ICNC 2008), OCT 18-20, 2008 Jian, PEOPLES R CHINA
 Source: **ICNC 2008: FOURTH INTERNATIONAL CONFERENCE ON NATURAL COMPUTATION, VOL 5, PROCEEDINGS** Pages: 299-303 Published: 2008
 Times Cited: 0

- Title: [Design of Flexible Neural Trees using Multi Expression Programming](#)
 5. Author(s): Chen YH, Jia GF, Xiu M
 Conference Information: 20th Chinese Control and Decision Conference, JUL 02-04, 2008 Yantai, PEOPLES R CHINA
 Source: **2008 CHINESE CONTROL AND DECISION CONFERENCE, VOLS 1-11** Pages: 1429-1434 Published: 2008
 Times Cited: 0

- Title: [Prediction of compressive and tensile strength of limestone via genetic programming](#)
 7. Author(s): Baykasoglu A, Gullu H, Canakci H, et al.
 Source: **EXPERT SYSTEMS WITH APPLICATIONS** Volume: 35 Issue: 1-2 Pages: 111-123 Published: JUL-AUG 2008
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- Title: [MEPAR-miner: Multi-expression programming for classification rule mining](#)
 9. Author(s): Baykasoglu A, Ozbakir L
 Source: **EUROPEAN JOURNAL OF OPERATIONAL RESEARCH** Volume: 183 Issue: 2 Pages: 767-784 Published: DEC 1 2007
 Times Cited: 8

Title: [Encoding multiple solutions in a linear genetic programming chromosome](#)

Author(s): Oltean,

M

Source: **COMPUTATIONAL SCIENCE - ICCS 2004, PT 3, PROCEEDINGS** Volume: 3038 Pages: 1281-1288 Published: 2004

4 Citari :

- 1. Title: [AdaGEP - An Adaptive Gene Expression Programming Algorithm](#)
 Author(s): Bautu E, Bautu A, Luchian H
 Conference Information: 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SEP 26-29, 2007 W Univ Timisoara, Timisoara, ROMANIA
 Source: **NINTH INTERNATIONAL SYMPOSIUM ON SYMBOLIC AND NUMERIC ALGORITHMS FOR SCIENTIFIC COMPUTING, PROCEEDINGS** Pages: 403-406 Published: 2007
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- Title: [A Linear Genetic Programming with Reusable Gene](#)
 2. Author(s): Wang ZY, Ma HC
 Conference Information: 2nd International Symposium on Intelligent Information Technology Application, DEC 21-22, 2008 Shanghai, PEOPLES R CHINA
 Source: **2008 INTERNATIONAL SYMPOSIUM ON INTELLIGENT INFORMATION TECHNOLOGY APPLICATION WORKSHOP: IITA 2008 WORKSHOPS, PROCEEDINGS** Pages: 328-331 Published: 2008
 Times Cited: 0

- Title: [A linear structured approach and a refined fitness function in genetic programming for multi-class object classification](#)
 3. Author(s): Zhang MJ, Fogelberg CG, Ma YJ
 Conference Information: 6th International Conference on Simulated Evolution and Learning, OCT 15-18, 2006 Univ Sci & Technol China, Hefei, PEOPLES R CHINA
 Source: **CONNECTION SCIENCE** Volume: 19 Issue: 4 Pages: 339-359 Published: 2007
 Times Cited: 0

- Title: [Genetic programming for image recognition: An LGP approach](#)
 4. Author(s): Zhang MJ, Fogelberg CG
 Conference Information: EvoWorkshops 2007, APR 11-13, 2007 Valencia, SPAIN
 Source: **Applications of Evolutionary Computing, Proceedings** Book Series: **LECTURE NOTES IN COMPUTER SCIENCE** Volume: 4448 Pages: 340-350 Published: 2007
 Times Cited: 1

Title: [Searching for a practical evidence of the no free lunch theorems](#)

Author(s): Oltean, M

Source: **BIOLOGICALLY INSPIRED APPROACHES TO ADVANCED INFORMATION TECHNOLOGY** Volume: 3141 Pages: 472-483 Published: 2004

3 citari:

1. Title: [Quality Measures to Adapt the Participation in MOS](#)
Author(s): LaTorre A, Pena JM, Muelas S, et al.
Conference Information: IEEE Congress on Evolutionary Computation, MAY 18-21, 2009 Trondheim, NORWAY
Source: **2009 IEEE CONGRESS ON EVOLUTIONARY COMPUTATION, VOLS 1-5** Book Series: **IEEE Congress on Evolutionary Computation** Pages: **888-895** Published: **2009**
Times Cited: **0**
3. Title: [Evolving problems to learn about particle swarm optimizers and other search algorithms](#)
Author(s): Langdon WB, Poli R
Source: **IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION** Volume: **11** Issue: **5** Pages: **561-578** Published: **OCT 2007**
Times Cited: **7**
4. Title: [Coevolutionary free lunches](#)
Author(s): Wolpert DH, Macready WG
Source: **IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION** Volume: **9** Issue: **6** Pages: **721-735** Published: **DEC 2005**
Times Cited: **4**

Title: [Evolving TSP heuristics using multi expression programming](#)

Author(s): Oltean, M

Source: **COMPUTATIONAL SCIENCE - ICCS 2004, PT 2, PROCEEDINGS** Volume: 3037 Pages: 670-673 Published: 2004

2 citari

2. Title: [There Is a Free Lunch for Hyper-Heuristics, Genetic Programming and Computer Scientists](#)
Author(s): Poli R, Graff M
Conference Information: 12th European Conference on Genetic Programming, APR 15-17, 2009 Eberhard Karls Univ, Tubingen, GERMANY
Source: **GENETIC PROGRAMMING** Book Series: **LECTURE NOTES IN COMPUTER SCIENCE** Volume: **5481** Pages: **195-207** Published: **2009**
Times Cited: **0**
3. Title: [A heuristic interface wiring designment based on minimum spanning tree variable population genetic algorithm](#)
Author(s): Jia HP, Zheng LY
Conference Information: International Symposium on Computer Science and Technology, MAY 18-24, 2007 Ningbo, PEOPLES R CHINA
Source: **2007 International Symposium on Computer Science & Technology, Proceedings** Pages: **187-189** Published: **2007**
Times Cited: **0**

Title: [Designing digital circuits for the knapsack problem](#)

Author(s): Oltean, M

Source: **COMPUTATIONAL SCIENCE - ICCS 2004, PT 3, PROCEEDINGS** Volume: 3038 Pages: 1257-1264 Published: 2004

2 citari:

1. Title: [Parallel evolution using multi-chromosome cartesian genetic programming](#)
Author(s): Walker JA, Volk K, Smith SL, et al.
Source: **GENETIC PROGRAMMING AND EVOLVABLE MACHINES** Volume: **10** Issue: **4** Pages: **417-445** Published: **DEC 2009**
Times Cited: **0**
3. Title: [A multi-chromosome approach Cartesian genetic to standard and embedded programming](#)
Author(s): Walker JA, Miller JF, Cavill R
Conference Information: 8th Annual Genetic and Evolutionary Computation Conference, JUL 08-12, 2006 Seattle, WA
Source: **GECCO 2006: Genetic and Evolutionary Computation Conference, Vol 1 and 2** Pages: **903-910** Published: **2006**
Times Cited: **1**

Title: [Solving classification problems using infix form genetic programming](#)

Author(s): Oltean,

M

Source: **ADVANCES IN INTELLIGENT DATA ANALYSIS V** Volume: 2810 Pages: 242-253 Published: 2003

1. Title: [A Survey on the Application of Genetic Programming to Classification](#)
Author(s): Espejo PG, Ventura S, Herrera F
Source: **IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART C-APPLICATIONS AND REVIEWS** Volume: 40 Issue: 2 Pages: 121-144 Published: MAR 2010
Times Cited: 0
2. Title: [On the impact of migration parameters on DIMEP for designing combinational circuits](#)
Author(s): Hadjam FZ, Moraga C, Rahmouni MK
Conference Information: 26th International Conference of the Chilean-Society-of-Computer-Science, NOV 08-09, 2007 Iquique, CHILE
Source: **SCCC 2007: XXVI INTERNATIONAL CONFERENCE OF THE CHILEAN SOCIETY OF COMPUTER SCIENCE, PROCEEDINGS** Book Series: **Proceedings of the International Conference of the Chilean Computer Science Society** Pages: 73-82 Published: 2007
Times Cited:

4. Distincții, premii și alte recunoașteri naționale și internaționale

Oltean Mihai, [Liquid State Genetic Programming](#), *International Conference on Adaptive and Natural Computing Algorithms, Warsaw, Poland, ICANNGA 2007, B. Beliczynski et al. (Eds.), Part I, LNCS 4431, Springer-Verlag, pp. 220-229, 2007. (best paper award)*

5. Studenți naționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licență (număr lucrări susținute) - 20
- Îndrumare lucrări de disertație (număr lucrări susținute)- 5
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute) 0
- Post-doctoranzi (lista nominală) 0

6. Studenți internaționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licență (număr lucrări susținute) - 0
- Îndrumare lucrări de disertație (număr lucrări susținute) - 0
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute) 0
- Post-doctoranzi (lista nominală) - 0

7. Membru in comitetul de redacție la reviste ISI

-

8. Membru in comitetul de redacție la reviste BDI

-

9. Participări la programe/granturi de cercetare finanțate din sursă internațională (se menționează și valoarea)

-

10. Participări la programe/granturi finanțate din sursă națională (se menționează și valoarea)

-

11. Coordonări de programe/granturi finanțate din sursă internațională (se menționează și valoarea)

-

12. Coordonări de programe/granturi finanțate din sursă națională (se menționează și valoarea)

1	<i>NATURAL COMPUTING OF EXCELLENCE</i> , CNCSIS, 2007-2010	526000
2	<i>GENETIC PROGRAMMING OF EXCELLENCE</i> , MCT, 2006-2008	124000
3	<i>ALGORITMI SI MODELE DE CALCUL AVAND CA SURSA DE INSPIRATIE PROCESE BIOLOGICE SI FIZICE</i> , Intern UBB <i>NOI MODELE DE CALCUL EVOLUTIV PENTRU GENERAREA AUTOMATA A PROGRAMELOR DE CALCULATOR, PREDICTII, PROIECTAREA CIRCUITELOR DIGITALE, ANALIZA DATELOR SI GENERAREA EURISTICILOR</i> , TD CNCSIS, 2004-2005	73600
4		6360

13. Profesor invitat la universitati de prestigiu, cu titlu oficial

-

14. Membru în comisii profesionale relevante, cu titlu oficial

-

15. Conferințe invitate internaționale

-

16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale

1. Optical Supercomputing, 2008, Viena, Austria.
2. Optical Supercomputing, 2009, Bertinoro, Italy
3. 19th International Joint Conference on Artificial Intelligence, Edinburgh, UK, 30 July - 5 August, 2005.
4. Hybrid Intelligent Systems, Rio de Janeiro, Brazil, 2005
5. Hardware Optimization Tools, EvoHot, 2006, 2007.
6. SYNASC, International Workshop on Symbolic and Numeric Algorithms for Scientific Computing, Timisoara, Romania, 2006

III. Realizare remarcabilă

(Descrieți într-o manieră cât mai accesibilă (în maximum 1 pagină) cea mai importantă realizare științifică/tehnică/artistică din ultimii 5 ani și impactul acesteia.)

Majoritatea dispozitivelor de calcul sunt digitale și folosesc curentul electric pentru a efectua operații. O altă idee este de a folosi lumina (sau alte semnale) pentru a rezolva probleme. Cursa pentru calculatoarele optice a început în 1939 când au fost patentate primele dispozitive pentru Recunoașterea Optică a Caracterelor. Calculul optic prezintă avantaje în unele situații. Un avantaj este faptul că fotonii sunt nativ în mișcare, pe când electronilor le trebuie o diferență de potențial.

Am propus în 2006 un dispozitiv optic care rezolva o problemă NP-completă în timp polinomial.

Principala dificultate este legată de construirea unui graf care să indice felul în care lumina trebuie să parcurgă acel graf pentru a genera toate posibilele soluții ale unei probleme. Pentru problema drumului hamiltonian, graf-ul-dispozitiv are aceeași structură ca și graf-ul pe care se cere soluția. În fiecare din noduri raza de lumina este marcată cu o anumită valoare. Pe arce fiecare semnal este întârziat cu o anumită cantitate.

Am propus (împreună cu Oana Muntean) mai multe dispozitive optice care să rezolve anumite probleme NP-complete: submultime de sumă dată (simple și generalizată), rezolvare de ecuații Diofantine, acoperire exactă, acoperirea unei suprafețe cu piese de orice formă etc.

Pe această idee cu dispozitive optice am publicat mai multe articole (4 în reviste ISI) și 3 în conferințe ISI proceedings.

De asemenea am organizat 2 workshop-uri de calcul optic: în 2008 în Viena și 2009 în Bertinoro, Italia.

Data: 15.03.2010

Semnătura:

Certific validitatea datelor prezentate

Sef de catedră,