

**CANDIDAT: Luciana MOROGAN**

**Post: Conferențiar universitar (civil), poziția 12**  
**Disciplinele: Inteligență artificială; Analiza datelor**  
**Domeniul: Calculatoare și tehnologia informației**

## ***LISTA DE LUCRĂRI***

### **LUCRĂRI RELEVANTE:**

1. Stefan Daniel Dumitrescu, Petru Rebeja, Beata Lorincz, Mihaela Gaman, Andrei Avram, Mihai Ilie, Andrei Pruteanu, Adriana Stan, Lorena Rosia, Cristina Iacobescu, **Luciana Morogan**, George Dima, Gabriel Marchidan, Traian Rebedea, Madalina Chitez, Dani Yogatama, Sebastian Ruder, Radu Tudor Ionescu, Razvan Pascanu, Viorica Patraucean, “*LiRo: Benchmark and leaderboard for Romanian language tasks*”, Thirty-fifth Conference on Neural Information Processing (NeurIPS 2021), Systems Datasets and Benchmarks Track (Round 1), [https://openreview.net/group?id=NeurIPS.cc/2021/Track/Datasets\\_and\\_Benchmarks/Round1](https://openreview.net/group?id=NeurIPS.cc/2021/Track/Datasets_and_Benchmarks/Round1), **accepted (ISI A+)**.
2. Frațiță Ruxandra, **Luciana Morogan**, “*Enhanced models in deep image steganography*”, 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 01-03 July 2021, Conference Record Number: #52376, in printing. (**IEEE Xplore**, Web of Science, Claryvate Analytics, **ISI Conference**).
3. M. Togan, **L. Morogan**, C. Pleșca, „*Comparison-Based Applications for Fully Homomorphic Encrypted Data*”, PROCEEDINGS OF THE ROMANIAN ACADEMY Series A: Mathematics, Physics, Technical Sciences, Information Science (P ROMANIAN ACAD A), ISSN 1454-9069, Vol. 16, SI Cryptology, pp. 329-338, 2015 (**ISI Jurnal, Fac. Impact 1.735**).
4. C. Chilipirea, **L. Morogan**, S.A. Toma, *A Scalable COVID-19 Screening Platform*, IEEE Global Communications Conference (GlobeCOM 2020), Taipei, Taiwan, 7-11 December 2020, Communications for Human and Machine Intelligence. (**IEEE Explore, ISI – in curs de publicare**).
5. A. Avram, **L. Morogan** and S. Toma, “*OpenNIG - Open Neural Image Generator*,” 2020 13th International Conference on Communications (COMM2020), Bucharest, Romania, 2020, pp. 177-181, doi: 10.1109/COMM48946.2020.9142009. (**IEEE Explore, ISI**).
6. S. D. Dumitrescu, A. M. Avram, **L. Morogan** and S. Toma, “*RoWordNet – A Python API for the Romanian WordNet*,” 2018 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iasi, Romania, 2018, pp. 1-6, doi: 10.1109/ECAI.2018.8679089. (**IEEE Xplore**, Web of Science, Claryvate Analytics, **Inspecc Accession Number: 18566056, ISI Conference**).
7. Mihai Lica Pura, **Luciana Morogan**, Didier Buchs, “*Generation of the Path to Counter-Examples by Backward State Space Traversal in Symbolic Model Checking based on Term Rewriting*”, Proceedings of the 11th IEEE International Conference on Communications

- COMM 2016, Bucharest, Romania, 9-11 June, 2016 (**ISI Conference**), ISBN 976-1-4673-819-3, PP. 373-376.
8. Diana Getuta Oancea, Mihai Lica Pura, **Luciana Morogan**, “*Using gamma formalism for model-based testing for the routing protocols for mobile ad-hoc networks*”, Proceedings of the 11th IEEE International Conference on Communications – COMM 2016, Bucharest, Romania, 9-11 June, 2016 (**ISI Conference**), ISBN 976-1-4673-819-3, PP. 373-376.
  9. C. Peșca, **L. Morogan**, M. Togan, „*Fast Searching in Image Databases Using Multi-Index Robust Fingerprinting*”, Security for Information Technology and Communication SECITC'15, Bucharest, 11-12 June, 2015 (**ISI Proceedings, SpringerLink**).
  10. C. Plesca and **L. Morogan**, “*Efficient and Robust Perceptual Hashing Using Log-Polar Image Representation*”, Proceedings of the 10th International Conference on Communications (COMM2014, Bucharest, Romania, May 29-31), AGIR Publishing House, pp. 151-156, ISBN: 978-1-4799-2385-4, IEEE catalog number: CFP1441J-ART. (**ISI, IEEE Conference Database, IEEE Xplore Database**).
  11. **L. Morogan** and A. Abraham, “*A Formalism Of The Object Compounds Viewed As Information Processing Support*”, Proceedings of the 12th International Conference on Intelligent Systems Design and Applications (ISDA 2012), Kochi, India, November 27-29, 2012. (**ISI, IEEE Xplore, Abstracting and Indexing (A&I) databases**).
  12. **L. Morogan**, “*View from inside one neuron*”, Communications in Computer and Information Science (CCIS188), V. Snasel, J. Platos, and E. El-Qawasmeh (Eds.), Part I, Springer-Verlag Berlin Heidelberg, pp. 176-188, 2011, Proceedings of the International Conference on Digital Information Processing and Communications (ICDIPC2011, Ostrava, Czech Republic, July 7-9). (**Indexat ISI, Scopus, INSPEC Database, EI Compendex**).

#### **TEZA DE DOCTORAT:**

1. ***A prion based model of a neural – like system*** (Engleza), Coordonator stiintific Prof. dr. Adrian Atanasiu, Universitatea din Bucuresti. Sunt doctor în informatică conform OMECTS Nr. 5743 din 12.09.2012, în domeniul de specializare Informatică/Information Sciences, iar susținerea publică a avut loc în decembrie 2011.  
*Domenii:* Cryptography, Natural Computing and Bio-inspired Computation, Artificial Intelligence, Molecular Cryptography, Genetics

#### **CARTI PUBLICATE:**

1. S. Barza, L. M. Morogan, „*Algoritmica grafurilor*”, Ed. FRM, Bucuresti, 2008, ISBN 978-973-163-147-9.
2. S. Barza, L. M. Morogan, „*Structuri de date*”, Ed. FRM, Bucuresti, 2007, ISBN 978-973-725-689-8.

#### **LUCRARI PUBLICATE IN JURNALE DE SPECIALITATE:**

1. M. Togan, **L. Morogan**, C. Pleșca, „*Comparison-Based Applications for Fully Homomorphic Encrypted Data*”, PROCEEDINGS OF THE ROMANIAN ACADEMY Series A: Mathematics, Physics, Technical Sciences, Information Science (P ROMANIAN ACAD A), ISSN 1454-9069, Vol. 16, SI Cryptology, pp. 329-338, 2015 (ISI Jurnal, *Fac. Impact* 1.735).
2. **L. Morogan**, “*Tracing one neuron activity from the inside of its structure*”, International Journal of New Computer Architectures and their Applications (IJNCAA), Vol. 2, No. 1, pp. 8- 22, ISSN: 2220-9085, published by: The Society of Digital Information and Wireless Communications, 2012 (**Indexat Ulrichsweb, INSPEC, etc.**). Web: <http://www.sdiwc.net/ijncaa/>.
3. **L. Morogan**, “*Introduction to the Prion Neural System*”, MTA Review, Vol. XXI, No. 3, pp. 189-208, Septembrie 2011, ISSN 1843-339 (**Indexat Ulrich's Periodicals Directory, Index Copernicus International, CNCSIS (cod 842, B+), The Lancaster Index**).
4. **L. Morogan**, “*A Model of Synaptic Formation between Neurons in a Network*”, International Journal of Computer Information Systems and Industrial Management Applications, ISSN 2150-7988, pp. 88-95, 2011. (**Indexat SCOPUS, INSPEC Database, Google Scholar**).
5. **L. Morogan**, “*Codificarea informatiei in noile modele de calcul. Calculul bazat pe ADN si calculul cu membrane celulare*”, Analele Universitatii Spiru Haret, Seria Matematica-Informatica, Anul II, Nr. 2, FRM, Bucharest, ISSN 1841-7833, pp. 59-73, 2007. (**CNCSIS (cod 842, B+), Index Copernicus (ID 5753), Zentralblatt Math, Mathematical Reviews, Google Scholar**)

#### **LUCRARI PREZENTATE SI PUBLICATE LA CONFERINTE INTERNATIONALE:**

1. Stefan Daniel Dumitrescu, Petru Rebeja, Beata Lorincz, Mihaela Gaman, Andrei Avram, Mihai Ilie, Andrei Pruteanu, Adriana Stan, Lorena Rosia, Cristina Iacobescu, **Luciana Morogan**, George Dima, Gabriel Marchidan, Traian Rebedea, Madalina Chitez, Dani Yogatama, Sebastian Ruder, Radu Tudor Ionescu, Razvan Pascanu, Viorica Patraucean, “*LiRo: Benchmark and leaderboard for Romanian language tasks*”, Thirty-fifth Conference on Neural Information Processing (NeurIPS 2021), Systems Datasets and Benchmarks Track (Round 1), [https://openreview.net/group?id=NeurIPS.cc/2021/Track/Datasets\\_and\\_Benchmarks/Round1](https://openreview.net/group?id=NeurIPS.cc/2021/Track/Datasets_and_Benchmarks/Round1), **accepted (ISI A+)**.
2. Frațiță Ruxandra, **Luciana Morogan**, “*Enhanced models in deep image steganography*”, 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 01-03 July 2021, Conference Record Number: #52376, in printing. (**IEEE Xplore, Web of Science, Claryvate Analytics, ISI Conference**).
3. Chilipirea, **L. Morogan**, S.A. Toma, *A Scalable COVID-19 Screening Platform*, IEEE Global Communications Conference (GlobeCOM 2020), Taipei, Taiwan, 7-11 December 2020,

- Communications for Human and Machine Intelligence. (IEEE Explore, ISI – in curs de publicare).
4. A. Avram, **L. Morogan** and S. Toma, "*OpenNIG - Open Neural Image Generator*," 2020 13th International Conference on Communications (COMM2020), Bucharest, Romania, 2020, pp. 177-181, doi: 10.1109/COMM48946.2020.9142009. (IEEE Explore, ISI)
  5. S. D. Dumitrescu, A. M. Avram, **L. Morogan** and S. Toma, "*RoWordNet – A Python API for the Romanian WordNet*," 2018 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iasi, Romania, 2018, pp. 1-6, doi: 10.1109/ECAI.2018.8679089. (**IEEE Xplore**, , Web of Science, Claryvate Analytics, **Inspecc Accession Number: 18566056, ISI Conference**)
  6. Mihai Lica Pura, **Luciana Morogan**, Didier Buchs, "*Generation of the Path to Counter-Examples by Backward State Space Traversal in Symbolic Model Checking based on Term Rewriting*", Proceedings of the 11th IEEE International Conference on Communications – COMM 2016, Bucharest, Romania, 9-11 June, 2016 (**ISI Conference**), ISBN 976-1-4673-819-3, PP. 373-376
  7. Diana Getuta Oancea, Mihai Lica Pura, **Luciana Morogan**, "*Using gamma formalism for model-based testing for the routing protocols for mobile ad-hoc networks*", Proceedings of the 11th IEEE International Conference on Communications – COMM 2016, Bucharest, Romania, 9-11 June, 2016 (**ISI Conference**), ISBN 976-1-4673-819-3, PP. 373-376
  8. C. Peșca, **L. Morogan**, M. Togan, „*Fast Searching in Image Databases Using Multi-Index Robust Fingerprinting*”, Security for Information Technology and Communication SECITC'15, Bucharest, 11-12 June, 2015 (**ISI Proceedings, SpringerLink**).
  9. C. Plesca and **L. Morogan**, "*Efficient and Robust Perceptual Hashing Using Log-Polar Image Representation*", Proceedings of the 10th International Conference on Communications (COMM2014, Bucharest, Romania, May 29-31), AGIR Publishing House, pp. 151-156, ISBN: 978-1-4799-2385-4, IEEE catalog number: CFP1441J-ART. (**ISI, IEEE Conference Database, IEEE Xplore Database**)
  10. M. V. Grigoras and **L. Morogan**, "*Password Cracking using P Systems with Active Membranes*", Proceedings of the 7th International Conference on Security for Information Technoloz and Communications (SECITC2014, Bucharest, Romania, June 12-13).
  11. **L. Morogan** and A. Abraham, "*A Formalism Of The Object Compounds Viewed As Information Processing Support*", Proceedings of the 12th International Conference on Intelligent Systems Design and Applications (ISDA 2012), Kochi, India, November 27-29, 2012. (**ISI, IEEE Xplore, Abstracting and Indexing (A&I) databases**)
  12. **L. Morogan**, "*View from inside one neuron*", Communications in Computer and Information Science (CCIS188), V. Snasel, J. Platos, and E. El-Qawasmeh (Eds.), Part I, Springer-Verlag Berlin Heidelberg, pp. 176-188, 2011, Proceedings of the International Conference on Digital Information Processing and Communications (ICDIPC2011, Ostrava, Czech Republic, July 7-9). (**Indexat ISI, Scopus, INSPEC Database, EI Compendex**)

13. **L. Morogan**, “*Prion Neural System: Modeling the binding affinities between neurons of a network*”, Proceedings of the 9th International Conference on Computer Information Systems and Industrial Management Applications With Applications to Ambient Intelligence and Ubiquitous Systems (CISIM2010, Cracow, Poland, October 8-10), Ajith Abraham, Khalid Saeed and Vaclav Snasel (Eds.), IEEE Computer Society Press, pp. 143-147, 2010, ISBN: 978-1-4244-7816-3. **(Indexat IEEE Xplore, INSPEC)**.
14. **L. Morogan**, “*Prion Neural Systems: Synaptic Level*”, Infusing Research and Knowledge in South-East Europe, Proceedings of the 5th Annual South-East European Doctoral Student Conference (DSC2010, Thessaloniki, Greece, September), South-East European Research Centre (SEERC), pp. 436-444, 2010, ISBN: 978-9609416-03-0. Web: <https://www.seerc.org/new/component/entities/?view=book&layout=details&id=25>
15. **L. Morogan**, “*Prion Neural Systems: Why Choosing a Hybrid Approach of Natural Computing?*”, Infusing Research and Knowledge in South-East Europe, Proceedings of the 4th Annual South-East European Doctoral Student Conference (DSC2009, Thessaloniki, Greece, July), South-East European Research Centre (SEERC), Vol.1, pp.381-392, 2009, ISBN: 978-960-9416-00-9/ 978-960-9416-02-3, ISSN: 1791-3578. Web: <https://www.seerc.org/new/component/entities/?view=book&layout=details&id=21>
16. **L. Morogan**, “*A subliminal channel in the framework of P systems*”, Infusing Research and Knowledge in South-East Europe, Proceedings of the 3rd Annual South-East European Doctoral Student Conference (DSC2008, Thessaloniki, Greece, June), South-East European Research Centre (SEERC), Vol.2, pp. 79-90, 2008, ISBN: 978-960-89629-7-2. Web: <https://www.seerc.org/new/component/entities/?view=book&layout=details&id=17>
17. **L. Morogan**, “*A model of a one bit subliminal channel in the framework of a tissue-like P system*”, Proceedings of the Workshop on Natural Computing and Graph Transformations (NCGT 2008), Satellite event to the 4th International Conference on Graph Transformations (ICGT 2008, Leicester, UK, September), I. Petre, G. Rozenberg (Eds.), pp. 43-53. **(indexat Citeseerx, ResearchGate, Google Scholar)**. Web: <https://www.cs.le.ac.uk/events/icgt2008/Satellite.html>
18. **L. Morogan**, “*Codificarea informatiei in noile modele de calcul. Calculul bazat pe ADN si calculul cu membrane celulare*”, Conferinta Anuala de Matematica Aplicata si Informatica (CAMAI2007, Bucharest, Romania, December).

#### **ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE:**

#### **PROIECTE:**

1. **IT4Innovations** - BIOM project, reg. no. CZ.1.07/2.3.00/20.0073 co-financed by ESF and Czech state budget, **invited professor**, 2013.

2. **ADECS** - Advanced models for the design and evaluation of modern cryptographic systems. National Plan for Research, Development and Innovation PN II (PN-II-PT-PCCA-2011-3), 2011-2015, **membru**.
3. **PPIE** - Sistem de extragere de informatii pentru limba romana cu pastrarea confidentialitatii datelor (PPIE). Numar contract: 225PED din 05/09/2017. Codul proiectului: PN-III-P2-2.1-PED-2016-1799. Coordonator proiect: ACADEMIA TEHNICĂ MILITARĂ. Data inceperii contractului: 05/09/2017. Data încheierii contractului: 17/12/2018. Proiect realizat cu sprijinul Dcnews. Partener: CertSign Finantat de catre UEFISCDI – PNIII, Programul Proiect Experimental Demonstrativ (PED) 2016. Valoarea totala a contractului: 627.928,00 RON, link site: <https://ppie.certsig.ro/>, **Director de proiect**.
4. **PSTool** - Persistent Scatterers Time-Series Analysis and Post-processing Tool with Application to Infrastructure Threat Detection, contract 126/2017, ROSA. Coordonator: Terrasigna. Partener: ATM. Data inceperii contractului: 20/07/2017. Data încheierii contractului: 31/10/2017. Buget: 802.398 lei, **membru**.
5. **Heimdallr** - Key word spotting for real time surveillance in telephone conversations in Romanian. Contract PED229/2017. Buget: 471.068 lei. Coordonator: Academia Română. Partener: ATM. (finalizat 31.12.2018), 2017-2018, **membru**.
6. **MC3Ex** - Mecanisme criptografice in cloud sub controlul exclusiv al utilizatorului, PN-III-P2-2.1-PTE-2016-0191, UEFISCDI; Inst. Gazda: ATM, 2016-2017 (2 ani), **membru**.
7. **CovShield** - SOL-2020-2 9. Dezvoltarea de tehnologii și sisteme de diagnostic local și la distanta eficiente al infectării cu virusul SARS-CoV-2. Numar contract: 25Sol/2020 din 01/07/2020. Codul proiectului: PN-III-P2-2.1-SOL-2020-2-0360. Coordonator proiect: ACADEMIA TEHNICĂ MILITARĂ “Ferdinand I”. Data inceperii contractului: 01/07/2020. Data încheierii contractului: 30/10/2020. Parteneri : Spitalul Universita de Urgenta Elias, Terrasigna. Finantat de catre UEFISCDI – PN-III-P2-2.1-SOL-2020. Valoarea totala a contractului: 543.750,00 RON, link site prezentare proiect: <https://mta.ro/scutcov/> sau <https://www.brainmap.ro/sp-7-pn-iii-p2-2-1-sol-2020-2-0360?&wtok=c8d7f5d070a98c1aeaedd0a719733206fb86b63e&wtkps=hZBLbsMgEibvwj4ub2K86QmqSD0B5IFRY6DGrtNEvnuxW2XRTVfD/Prm0zBKCnkvkqhQvAFdkQxLQG6rcfNb75OarA38+kHDJxzbfnMwN41jzml01fjwzWcEFz7TMQ+S6sl/2hQtey12p5n0Kka3I90fdQP2ssz46jbtgoICYzJ8fL6hCkhLT4LiA4flOBPwg705V+wcus8hLK/Sd1HU4cRYkIQTDHDAorWaa205QYSR/jv2qs9vlQvMyazBNuMysem2OKX6PNkbzb09TxNXvrg9WVKzoc6sn0D&wchk=7a2bb89179c66a8f6cb11f454f73e52ec606d0de>, **Director de proiect**
8. **S14Ro** - Serviciu inovativ pentru monitorizarea infrastructurii la nivel național (S14Ro), contract nr. 64PTE/2020. Perioada de implementare: octombrie 2021 - februarie 2022, ATMFI – partener, **membru**
9. **MASSA** - MECANISME AVANSATE DE SECURITATE PENTRU SISTEME AUTONOME (MASSA), cod proiect PN-III-P2-2.1-PTE-2019-0817, contract 56PTE/2020, valoare totala: 1.681.655,00, valoare ATMFI 327.002,00 RON, perioada proiect, 2020 – 2022, **membru**

**10. LTPS** - Serviciu electronic pentru pastrarea si garantarea pe termen lung a semnatuurilor electronice (LTPS), cod proiect SMIS 2014: 123423, PROGRAMUL OPERATIONAL COMPETITIVITATE, axa "Cercetare, dezvoltare tehnologica si inovare, (CDI) în sprijinul competitivității economice, si dezvoltării afacerilor", valoare totala 6.170.317 RON, valoare ATMFI 1.294.987 RON , perioada iulie 2020 – iulie 2022, **membru**

**Lucrare de disertație:** "*Evoluție și genomul uman*", Coordonator Prof. dr. V. Mitrana, Universitatea din București, iunie 2006.

**Lucrare de licență:** "*Utilizarea tehnologiilor MFC în realizarea de jocuri pe calculator*", Coordonator Conf. dr. A. S. Baranga, Universitatea din București, iunie 2004.

**Lista comunicărilor/referatelor/rapoartelor (stiintifice, tehnice)/proiectelor prezentate în fața comisiilor doctorale/masterale/de licență:**

1. Diseminarea activității științifice doctorale în cadrul Scolii Doctorale de Informatică, Universitatea București, în vederea efectuării lucrării de doctorat cu titlul A prion based model of a neural-like system (lucrare ce se încadrează în domeniul de cercetare al modelelor criptografice cu orientare către arhitecturile inspirate din biologie), am depus activitate de cercetare, îndeplinind pe parcursul anilor universitari 2006-2010 următoarele referate și rapoarte:
  - a. Referate și proiecte susținute pe parcursul anului I (2006-2007)
    - i. Generatori de numere pseudo-aleatoare, referat, februarie 2007
    - ii. Calcul molecular, referat, iunie 2007
    - iii. Criptografie moleculară, referat, iunie 2007
    - iv. Criptografie moleculară, Proiect de Doctorat, septembrie 2007
  - b. Referate și proiecte susținute pe parcursul anului II (2007-2008)
    - v. Raport de progres asupra tezei de doctorat I: A prion based model of a neural-like system, iunie 2008
    - vi. Raport de progres asupra tezei de doctorat II: A prion based model of a neural-like system, ianuarie 2009
  - c. Referate și proiecte susținute pe parcursul anului III (2008-2009)
    - vii. Raport de progres asupra tezei de doctorat III: A prion based model of a neural-like system, iunie 2009
2. În urma unei burse de studii la Université de Provence Aix-Marseille I, Marseille, Franța, ianuarie - iunie 2005, am finalizat studiile de masterat prin susținerea publică a următoarelor proiecte:
  - a. Recunoașterea automată de mare fiabilitate a cifrelor manuscrise și Categorizarea textelor (recunoașterea automată a categoriilor – de exemplu subiectul, autorul, limba, stilul – unui text, plecând de la conținutul acestuia), proiect susținut pentru promovarea la materia intitulată Invatare Automata
  - b. Tapestry, infrastructura de rutare peer-to-peer ce oferă localizarea, într-o rețea distribuită, a unui fișier, direct prin copii ale acestuia în imediată vecinătate (recuperarea de obiecte distanțe într-o rețea distribuită, concret, recuperarea unui fișier aflat în această rețea de pe alte mașini decât cea utilizată), proiect susținut pentru promovarea la materia intitulată Programare paralelă și Distribuie
  - c. Proiectul de gestiune al unui club de tenis, proiect susținut pentru promovarea la materia intitulată Instrumentele Internetului

- d. Realizarea unui filmulet de desene animate de maxim 5 minute, proiect sustinut pentru promovarea la materia intitulata Imagini
- e. Realizarea si reprezentarea virtuala a pietrelor geme folosind Blender, proiect de semestru

06.08.2021

Luciana MOROGAN