

## INFORMAȚII PERSONALE

## Groza Adrian



## WORK EXPERIENCE

Since 2013

### Conferentiar

Universitatea Tehnică din Cluj-Napoca

Cursuri: Inteligența Artificială, Sisteme Inteligente, Sistem bazate pe cunoștințe

2011-2013

### Sef lucrari

Universitatea Tehnică din Cluj-Napoca

Cursuri: Programare funcțională, Inteligența artificială, Sistem bazate pe cunoștințe

2008-2011

### Asistent universitar

Universitatea Tehnică din Cluj-Napoca

Cursuri: Programare funcțională, Inteligența artificială, Sistem bazate pe cunoștințe

2003-2008

### Preparator si doctorand

Universitatea Tehnică din Cluj-Napoca

Cercetari in domeniul Rezolvarea online a diisputelor utilizand sisteme multi-agent

## EDUCATIE SI FORMARE

2011-2013

### PostDoc

Tema cercetare: Verificarea formală a proceselor de business

2003-2008

### PhD student

Teza: Modele computationale pentru rezolvarea disputelor inter-agenti (Magna cum Laude)

Conducator: Prof. dr. ing. Ioan Alfred Letia

2003-2004

### Master student

Disertatie: Utilizarea similaritatii regulilor de buisness pentru cooperare in canale de distributie

1998-2003

### Bachelor student

Proiect de diploma: Competia de Agenti Comerciali

**Publicatii** 6 articole in jurnale ISI si 70 lucrari in jurnale si conferinte indexate.

A. Groza. Interleaving Argumentation and Explanation in Dialog. 119-140, In Reasoning: Games, Cognition, Logic, M. Urbański, T. Skura, P. Lupkowski, ed., *College Publications*, 2020

Groza, A., Ozturk, P., Slavescu, R. R., Marginean, A.: Climate Change Opinions in Online Debate Sites. *Computer Science and Information Systems*, vol 17 (I) 2020

Conțiu, Ștefan, and Adrian Groza. "Improving remote sensing crop classification by argumentation-based conflict resolution in ensemble learning." *Expert Systems with Applications* 64, 269-286, 2016

Gómez, S. A., Goron, A., Groza, A., & Letia, I. A.. Assuring safety in air traffic control systems with argumentation and model checking. *Expert systems with applications*, 44, 367-385, 2016

Letia, I. A., & Groza, A.. Compliance checking of integrated business processes. *Data & Knowledge Engineering*, 87, 1-18, 2013.

**Indrumare studenti** 83 proiecte de diploma si 16 lucrari disertatie

**Proiecte/Granturi** Investigator principal/director proiect in 6 proiecte/granturi

ARGCLIME: Increasing understanding on climate change through public discourse analyse and stakeholders modelling, 2016, Romania-Norway EEA-Grant (9200 USD),

- Groza, A., Ozturk, P., Slavescu, R. R., Marginean, A.: Climate Change Opinions in Online Debate Sites. *Computer Science and Information Systems*, vol 17 (I) 2020
- Groza, Adrian, Pinar Ozturk, Radu Razvan Slavescu, Anca Marginean, and Rajendra Prasath. "Analysing Climate Change Arguments Using Subjective Logic." In 2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, Romania, pp. 37-44. IEEE, 2018 ([bib](#)).
- A. Groza, O. Popa. "The impact of summarisation on textual entailment - a case study on global warming arguments", 10th Int. Conference on Electronics, Computers and Artificial Intelligence, Iasi, Romania, 2018
- D. Toniuc, A. Groza, Climebot: an argumentative agent for climate change. *IEEE 13 International Conference on Intelligent Computer Communication and Processing (ICCP2017)*, Cluj-Napoca, Romania, 7-9 September 2017
- R. Szabo, A. Groza - Analysing debates on climate change with textual entailment and ontologies. *IEEE 13 International Conference on Intelligent Computer Communication and Processing (ICCP2017)*, Cluj-Napoca, Romania, 7-9 September 2017

LELA: Collaborative Recommendation System in the Tourism Domain Using Semantic Web Technologies and Text Analysis in Romanian Language, 2013-2014, UEFSCDI (26,559 USD).

- A. Marginean, A. Groza, R. R. Slavescu, I. A. Letia - "Romanian2SPARQL: A Grammatical Framework approach for querying Linked Data in Romanian language", *DAS 2014*, Suceava, Romania, May 15-17, 2014
- Bernadette Varga, Alina Dia Trambitas-Miron, Andrei Roth, Anca Marginean, Radu Razvan Slavescu, Adrian Groza - A natural language processing system for Romanian tourism, *Fedcsis. ASIR*, Warsaw, Polonia, 7-10 September, 2014
- A. Groza, R. Slavescu, I. Dragoste, B. Varga. Engineering a Comprehensive Romanian Tourism Ontology, *2nd Workshop on Intelligent Systems: concepts, models, services and applications* at *ICMCS2014*, Chisinau, Republic of Moldova, 22-25 October 2014
- R. Slavescu, A. Groza, M., I. Barbantan. Generation training sets for conditional random fields with morphological labels for Romanian, *2nd Workshop on Intelligent Systems: concepts, models, services and applications* at *ICMCS2014*, Chisinau, Moldova, 22-25 October 2014

GREEN-VANETS: Improving transportation using Car-2-X communication and multi agent systems, 2013-2014, UTCN internal project (9,063 USD)

- A. Groza, A. Marginean, V. Muresan - An ontology-based model for vehicular ad-hoc networks, 18th IEEE International Conference on Intelligent Engineering Systems (INES2014), 3-5 July, Tihany, Hungary
- V. Muresan, A. Groza, B. Iancu and I. Clitan. Simulation and Control of the Vehicles Movement in the Case of the Overtaking Procedures, ICMERA2014, Bucuresti, Romania, 24-27 October 2014 (BEST PAPER)
- A. Groza, I. A. Letia, A. Goron and S. Zaporojan - A formal approach for identifying assurance deficits in unmanned aerial vehicle software, In Proceedings of 23 International Conference on Systems Engineering, Las Vegas, USA, Ed. H. Selvaraj, D. Zydek, G. Chmaj, Advances in Intelligent Systems & Computing Series, Vol 1089, ISBN 978-3-319-08421-3, Springer
- A. Groza, N. Marc - Consistency Checking of Safety Arguments in the Goal Structuring Notation Standard, IEEE 10th Int. Conf. on Intelligent Computer Communication and Processing (ICCP2014), Cluj-Napoca, Romania, 4-6 September 2014, pp 59-66
- I. Jimborean, A. Groza - Ranking Ontologies in the Ontology Building Competition BOC 2014, IEEE 10th International Conference on Intelligent Computer Communication and Processing (ICCP2014), Cluj-Napoca, Romania, 4-6 September 2014, pp. 75-82
- A. Groza, B. Iancu, A. Marginean - A multi-agent approach towards overtaking in vehicular networks, WASA@WIMS14, Thessaloniki, Greece, June 2-4, 2014
- A. Groza, A. Marginean, B. Iancu, Towards improving situation awareness during emergency transportation through Ambulance-2-X communication and semantic stream

ARGSAFE: Using Argumentation for justifying safeness in complex technical systems, Romania-Argentina Bilateral Contract, 2013-2015. UEFSCDI (16,320 USD)

- S. A. Gómez, A. Goron, A. Groza, I. A. Letia - [Assuring safety in air traffic control systems with argumentation and model checking](#), Expert Systems with Applications, vol. 44, pp. 367-385, 2016
- A. Groza, N. Mandy - Harmonization of conflicting medical opinions using argumentation protocols and textual entailment - a case study on Parkinson disease, IEEE 12 Int Conf. on Intelligent Computer Communication and Processing (ICCP2016), Cluj-Napoca, Romania, 8-10 Sep. 2016
- C. Cara, A. Groza, S. Zaporojan, I. Calmicov - Assisting Drivers During Overtaking Using Car-2-Car Communication and Multi-Agent Systems, IEEE 12 Int. Conf. on Intelligent Computer Communication and Processing (ICCP2016), Cluj-Napoca, Romania, 8-10 September 2016.
- S.A. Gomez, A. Groza, C.I. Chesnevar - An Argumentative Approach to Assessing Safety in Medical Device Software using Defeasible Logic Programming, International Conference on Advancements of Medicine and Health Care through Technology (MEDITECH2014), Ed. S. Vlad, R. Ciupa, ISBN 978-3-319-07652-2, IFMBE, Vol 44, Springer, pp. 167-172
- S. Gomez, A. Groza, C Chesnevar, I. A. Letia, A. Goron, M Lucero - [ARGSAFE: Usando Argumentacion para Garantizar Seguridad en Sistemas Tecnicos Complejos](#), WICC, Ushuaia, Tierra del Fuego, Argentina, 7-8 May 2014
- A. Goron, A. Groza, S. A. Gomez, I. A. Letia - Towards an argumentative approach for repair of hybrid logics models, ARGMAS@AAMAS, Paris, France, 5-9 May 2014
- A. Groza, N. Marc - Consistency Checking of Safety Arguments in the Goal Structuring Notation Standard, IEEE 10th Int. Conf. on Int. Computer Communication and Processing (ICCP2014), Cluj-Napoca, Romania, 4-6 September 2014, pp, 59-66
- Letia, Ioan Alfred, and Anca Goron. "A temporal view on Model Checking Hybrid Logics." Intelligent Computer Communication and Processing, 2014

ASDEC: Structured Argumentation for Decision Support Under Normative Constraints, Romania - Moldova Bilateral Research Project, 2013-2014, UEFSCDI (19,066 USD)

- A. Groza, R. Slavescu, I. Dragoste, B. Varga. Engineering a Comprehensive Romanian Tourism Ontology, 2nd Workshop on Intelligent Systems: concepts, models, services and applications at ICMCS2014, Chisinau, Republic of Moldova, 22-25 October 2014
- R. Slavescu, A. Groza, M., I. Barbantan. Generating training sets for conditional random fields with morphological labels for Romanian, 2nd Workshop on Intelligent Systems: concepts, models, services and applications at ICMCS2014, Chisinau, Moldova, 22-25 Octobe
- V. Moraru, S. Zaporojan, D. Stoian. O metodă bazată pe funcții de complementaritate pentru optimizarea pătratică, 2nd Workshop on Intelligent Systems: concepts, models, services and applications at ICMCS2014, Chisinau, Republic of Moldova, 22-25 October 2014

- S. Zaporojan, C. Plotnic V. Larin. Planning system for microwires fabrication, 2nd Workshop on Intelligent Systems: concepts, models, services and applications at ICMCS2014, Chisinau, Republic of Moldova, 22-25 October 2014
- A. Groza, I. A. Letia, A. Goron and S. Zaporojan - A formal approach for identifying assurance deficits in unmanned aerial vehicle software, In Proceedings of 23 International Conference on Systems Engineering, Las Vegas, USA, Ed. H. Selvaraj, D. Zydek, G. Chmaj, Advances in Intelligent Systems & Computing Series, Springer
- S. Zaporojan, V. Moraru, A. Groza - An approach to schedule Production Using Reservation Tables. In Proceedings of 23 International Conference on Systems Engineering, Las Vegas, USA, Ed. H. Selvaraj, D. Zydek, G. Chmaj, Advances in Intelligent Systems & Computing Series, Springer
- V. Moraru, S. Zaporojan, A. Groza - A Second Order-Cone Programming relaxation for facility location problem, DAS2014, Suceava, Romania, May 15-17, 2014
- Radu Balaj and Adrian Groza. Detecting influenza epidemics based on real-time semantic analysis of Twitter streams. Modelling and Development of Intelligent Systems, Oct. 2013, Sibiu, Romania
- Gabriela Visinari and Adrian Groza. Semantic-based monitoring of e-contracts. Proceedings of the 10th National Conf. on Human Computer Interaction, Cluj-Napoca, Romania, 2-3 September 2013, Ed. Teodor Stefanut and Cristian Rusu, ISSN 2344-1690, Matrix, Bucuresti, pp 161-164
- Adrian Popescu and Anca Marginean. Multi-agent system for traffic monitoring. Proceedings of the 10th National Conf. on Human Computer Interaction, Cluj-Napoca, Romania, 2-3 September 2013, Ed. Teodor Stefanut and Cristian Rusu, ISSN 2344-1690, Matrix, Bucuresti, pp 181-184.
- Anca Marginean and Oana Marc. Querying LinkData collection with natural language. Proceedings of the 10th Conference on Human Computer Interaction, Cluj-Napoca, Romania, 2-3 September 2013, Ed. Teodor Stefanut and Cristian Rusu, ISSN 2344-1690, Matrix, Bucuresti, pP 165-168.
- Radu Razvan Slavescu and Adrian Coapsi. Detecting Tourist Preferences for a Recommendation System. Proceedings of the 10th Conf. on Human Computer Interaction, Cluj-Napoca, 169-172.
- Zaporojan Sergiu, Calmicos Igor, Plotnic Constantin, Carbune Viorel. Monitoring the fabrication process of microwires. Proceedings of the 10th National Conference on Human Computer Interaction, Cluj-Napoca, Romania, 2-3 September 2013, Ed. Teodor Stefanut and Cristian Rusu, ISSN 2344-1690, Matrix, Bucuresti, pages 173-176.
- Vasile Moraru, Sergiu Zaporojan. Relaxarea semidefinita pentru problema echilibrarii liniilor de asamblare. Proceedings of the 10th National Conference on Human Computer Interaction, Cluj-Napoca, Romania, 2-3 September 2013, Ed. Teodor Stefanut and Cristian Rusu, ISSN 2344-1690, Matrix, Bucuresti, pages 177-180.
- Oxana Hotea and Adrian Groza. Reasoning on semantic sensor streams for smart city. In International Conference on Intelligent Information Systems, 22-25 August 2013, Chisinau, Moldova, 2013, Ed. C Gaidric and S. Cojocar, ISBN 978-9975-4237-1-7, pages 219-222.

AODR: Agents for Online Dispute Resolution, PhD grant, CNCSIS-534, 2007-2009 (8,333 USD)

- I. A. Letia, A. Groza - "Modelling Imprecise Arguments in Description Logic", Advances in Electrical and Computer Engineering, ISSN 1582-7445, vol. 9, no. 3, pp. 94-99, 2009
- A. Groza - Modelling Imprecise Arguments in a Weighted Argument System, IEEE 5th International Conference on Intelligent Computer Communication and Processing (ICCP09), pages 51-54, Cluj-Napoca, Romania, August, 2009
- I. A. Letia, A. Groza - Contextual Extension with Concept Maps in the Argument Interchange Format Ontology, in I Rahwan and P. Moraitis (eds) Argumentation in Multi-Agent Systemes, LNAI 5384, pages 72-89, Springer, 2009
- A. Letia, A. Groza - A Planning-based Approach for Enacting World Wide Argument Web, in 2nd International Symposium on Intelligent Distributed Computing (IDC08), Catania, Italy, September, Studies in Computational Intelligence, pages 137-146, Springer, 2008.
- A. Groza - Q-learn Argumentation Schemes for Car Sales Dialogues in the IEEE (ICCP08), 257-260, Cluj-Napoca, Romania, August, 2008
- A. Groza - Designing Electronic Markets for Defeasible-based Contractual Agents, European Summer School in Logic, Language, and Information (ESSLLI), Hamburg, Germany, August, 2008
- I. A. Letia, A. Groza - Contextual Extension with Concept Maps in the Argument Interchange Format Ontology, Argumentation in Multi-Agent Systems (ArgMAS), Estoril, Portugal, May, 2008.
- I. A. Letia, A. Groza - Structured Argumentation in a Mediator for Online Dispute Resolution, In M. Boldoni, T. Son, B. Riemdsdijk, M. Winikoff (eds.) Declarative Agents, Languages and Technologies V, Selected, Revised and Invited Papers LNAI 4897, pages 193-200, Springer, 2008.
- I.A. Letia, A. Groza - Planning with Argumentation Schemes in Online Dispute Resolution, 3rd IEEE Int. Conf. on Int. Computer, Communication and Processing, Cluj-Napoca, Romania, Sep., 2007.
- I. A. Letia, A. Groza - Exploiting Rough Argumentation in an Online Dispute Resolution Mediator, International Conference on Rough Sets and Emerging Intelligent Systems Paradigms (RSEISPO7), Warsaw, Poland, June, 2007, LNAI 4585, Springer, 2007, 697-706
- I. A. Letia, A. Marginean, A. Groza - Z-Based Agents for Service Oriented Computing, In: J Huang,

Organizare evinamente stiintifice	<p>General co-chair at 6<sup>th</sup> Int. Conf. On Mining Intelligence and Knowledge Exploration -MIKE2018 Cluj-Napoca, 2018, (<a href="http://www.mike.org.in/2018/">http://www.mike.org.in/2018/</a>),</p> <ul style="list-style-type: none"><li>Groza, A. and Prasath, R. eds., 2018. Mining Intelligence and Knowledge Exploration: 6th International Conference, MIKE 2018, Cluj-Napoca, Romania, December 20–22, 2018, Proceedings (LNAI Vol. 11308). Springer</li></ul> <p>General chair <a href="#">2nd Workshop on Intelligent Systems: concepts, models, services and applications</a> at CFAUAS workshop @ICMCS, Chisinau, 2014 (<a href="http://lcdic.utm.md/Ateliere/atelierul_de_lucru_chisinau_2014.htm">http://lcdic.utm.md/Ateliere/atelierul_de_lucru_chisinau_2014.htm</a>)</p> <p>General chair “Comunicare flexibila agenti umani - agenti software” @ ROCHI (Cluj-Napoca, 2013) (<a href="http://rochi2013.utcluj.ro/ateliere-de-lucru/">http://rochi2013.utcluj.ro/ateliere-de-lucru/</a>)</p>
Distinctii	Best paper at FEDCSIS2015, Warsaw, Poland
Cursuri	Technical University of Kosice (2018), Engineer Summer University (2018)
Afilieri	Computer Science Teacher Association (2013) International Association for Artificial Intelligence and Law (2008) ASAIA: Asociatia pentru Stiinta si Aplicarea Inteligentei Artificiale (din 2020)
Alte	PhD. supervisor since 2019 Knowledge on: artificial intelligence, logics and reasoning, multi-agent systems, machine learning