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Position

Professor of Artificial Intelligence, Technical University of Cluj-Napoca	since 2020
Assoc. Prof., Technical University of Cluj-Napoca	2014 –2020
Senior lecturer, Technical University of Cluj-Napoca	2009–2014
Lecturer, Technical University of Cluj-Napoca	2006–2009
Junior lecturer, Technical University of Cluj-Napoca	2004–2006

Teaching experience

Artificial Intelligence (2013-2024),
Intelligent Systems (2014-2024),
Knowledge Based Systems (2008-2024),
Functional Programming, (2003-2016)

Knowledge transfer on artificial intelligence

Member in the technical committee for standardisation ASRO CT 401 Artificial Intelligence (2024)

Invited Lecture on "AI in Software Engineering" at King Danylo University, Ivano-Frankivsk, Ukraine (2024)

Awarded by students from the Computer Science Department, TUCN as decan de suftet (2014)

Best presentation at the 4th Int. Conf. on Artificial Intelligence in Education Technology (AIET2023), Berlin, Germany, Springer, with the paper "Teaching first order logic with friendly puzzles" (2023)

Published book on teaching artificial intelligence: Modelling Puzzles in First Order Logic, Springer, DOI: 10.1007/978-3-030-62547-4, Source code is available at <https://users.utcluj.ro/~agroza/puzzles/maloga/codes.html> (2021)

Developing an education system for personalised ophthalmology residency training. The AI-based systems matches patients with the resident who would most benefit from the specific case, based on their case history and performance. The system is described in "Artificial Intelligence for Personalised Ophthalmology Residency Training", Journal of Clinical Medicine Vol. 12, Iss. 5, DOI: 10.3390/jcm12051825, 2023. The system is currently used by medical residents as a pilot in the Emergency County Hospital, Ophthalmology Department in Cluj-Napoca (2023)

Invited talk at Progress and Innovation in Ophthalmology, 7-9 December 2023, Cluj-Napoca, Romania on the topic of applying AI to ophthalmology. Presentation title: "Eyes on AI"

Invited talk at Targul IMM-IT & Industrii 4.0, 22-24 November, Cluj-Napoca. Presentation title: "Brave new world: AI is more than ML"

Knowledge transfer on AI to DORIE S.R.L under the Transylvania Digital Innovation Hub matching program

Raising awareness on the risks of AI. The art installation called "The Profile" aims to raise awareness about the power of deepfakes, build new technology, understand human behaviour, and present a fresh perspective on intertwining art and AI. The installation is described in "The profile: unleashing your deepfake self", Cheres, Ioana and Groza, Adrian, *Multimedia Tools and Applications Springer Nature*, vol. 82. 3183931854, DOI: <https://doi.org/10.1007/s11042-023-14568-x>. The installation was presented at an "AI and Art" exposition in Cluj-Napoca (2022)

Analysing how Large Language Models are used in teaching and learning. The results of the study were presented at the 16th Int. Conf. of Education, Research and Innovation (ICERI23), Seville, Spain. The paper is available at "Brave new world: AI in teaching and learning" (2023)

Panelist on "Innovation in Romania through AI", Public discussion on the Romanian Strategy on AI, Bucuresti, Romania, 26 September, (2023)

Guest member in the European Digital Education Hub (2023)

Member in the "Romanian Scientific and Ethics Council in Artificial Intelligence" (2023)

Member in the Romanian working group "Education and AI Council" (2023)

Invited to "Tema zilei" radio program at Radio Cluj on the topic of Artificial Intelligence (2023)

Working on the challenge "Accelerating digital innovation with the help of data spaces, Transilvania DIH, Cluj Innovation Camp 2023: 13-15th of October 2023

Contributor as technology expert to the National Strategic Framework for Artificial Intelligence <https://strategie-ia.utcluj.ro/>

Responsible for the report "Analysing regulation on Artificial Intelligence" for the Romanian Agency of Digitalisation. The report is available at <https://strategie-ia.utcluj.ro> and it has been used to support public policies on AI. Parts of the report have been included in the "National Strategic Framework for Artificial Intelligence"

Presenting "Regulation Sandboxes for Artificial Intelligence" to stakeholders from central administration, Bucuresti, 8 December (2022)

Invited talk "Artificial Intelligence for Age-Related Macular Degeneration", Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania, 5 December, 2022

Panelist on "Regulating Artificial Intelligence" Romanian AI Days, Oradea, Romania, 12-13 October, 2022

Presenting "AI tools for public administration" to stakeholders from local public administration, Cluj-Napoca, 5 April (2022)

Presenting the ongoing research on AI to companies from the North-West Region in Romania, Transilvania Digital Innovation Hub, Cluj-Napoca, Romania, 24 November, 2022

Invited talk on "Artificial Intelligence in Ophthalmology", RePatriot, Artificial Intelligence in Healthcare, 21 November, (2022)

Panelist on "Emerging Policies for AI", Romanian AI days, RePatriot, 23 November, 2021

PhD. supervisor since 2019 - 7 PhD. candidates.

Supervising 26 master students in AI (<https://users.utcluj.ro/~agroza/students/index.php>)

Supervising 97 diploma thesis in AI (<https://users.utcluj.ro/~agroza/students/index.php>)

Teaching Artificial Intelligence at Technical University of Kosice and Slovak Academy of Science (Kosice) - 2 weeks Erasmus mobility grant (May 2018)

Teaching Artificial Intelligence at Engineering Summer University, Cluj-Napoca, Cluj-Napoca, Romania, 15-19 July 2018. I had lectures on Semantic Web and Epistemic Games (2018).

Awarded by students from the Computer Science Department, TUCN as "decan de suflet" (2013)

Education

Phd. in Computer Science - *Magna Cum Laude*, Technical University of Cluj-Napoca, 2008 (Thesis title: "Structural Models for Inter-agents Online Dispute Resolution").

Postgraduate Studies "New Generation of Computers", Technical University of Cluj-Napoca, 2004

B.S. Computers, Technical University of Cluj-Napoca, 2003

Membership

Scientific and Ethics Council of Artificial Intelligence	since 2023
ACM	since 2022
International Association for Artificial Intelligence and Law	since 2012
Computer Science Teacher Association @ ACM	since 2011
ROCHI @ ACM	since 2004

Principal investigator

Position	UTCN Responsable (2022-2024)
Project	New Optical Coherence Tomography Biomarkers Identified with Deep Learning for Risk Stratification of Patients with Age-related Macular Degeneration PED616
Beneficiary	Ministry of Education
Webpage	http://users.utcluj.ro/~agroza/projects/delarmad
Position	Director (2016)
Project	Increasing understanding on climate change through public discourse analyse and stakeholders modelling, EEA Grant Romania-Norway
Beneficiary	Ministry of European Funds
Webpage	http://users.utcluj.ro/~agroza/projects/argclime
Position	Director (2013-2014)
Project	LELA: Collaborative Recommendation System in the Tourism Domain Using Semantic Web Technologies and Text Analysis in Romanian Language, Dec 2013-Mai 2014, PN-II-CI, UEFSCDI
Beneficiary	Recognos SRL Romania
Webpage	http://users.utcluj.ro/~agroza/projects/lela
Position	Director (2013-2014)
Project	GREEN-VANETS: Improving transportation using Car-2-X communication and multi agent systems, Oct 2013- Sep 2014
Beneficiary	Technical University of Cluj-Napoca, Romania
Webpage	http://users.utcluj.ro/~agroza/projects/vanets

Position Director (2013-2015)
 Project ARSAFE- Using Argumentation for justifying safeness in complex technical systems, Romania-Argentina Bilateral Contract, July 2013-June 2015.
 Beneficiary UEFSCDI
 Webpage <http://users.utcluj.ro/~agroza/projects/argsafe>

Position Director (2012-2014)
 Project ASDEC - Structural Argumentation for Decision Support with Normative Constraints, Romania - Republic of Moldova Bilateral Contract, Mai 2013-Dec 2014.
 Beneficiary UEFSCDI
 Webpage <http://users.utcluj.ro/~agroza/projects/asdec>

Position Postdoc (2010–2013)
 Project "EXCEL: Postdoctoral Programs for Knowledge Driven Society", research theme: Structured Argumentation in Semantic Web Oriented E-Business
 Beneficiary POSDRU/89/1.5/S/62557 Romanian Ministry of Education and Research

Position Director (2007-2008)
 Project "Automating Online Dispute Resolution for B2B Using Multi-Agent Systems"
 Beneficiary CNCSIS, TD534/2007 of the Romanian Ministry of Education and Research

Researcher

Position Technology expert (2021-2023)
 Project "EXTRAS"
 Beneficiary EUT+
 Webpage

Position Technology expert (2021-2023)
 Project "Cadru strategic pentru adoptarea i utilizarea de tehnologii inovative n administraia public 2021 2027 – soluii pentru eficientizarea activitii, cod SIPOCA 704"
 Beneficiary Autoritatea pentru Digitalizarea Romniei
 Webpage <https://strategie-ia.utcluj.ro/>

Position Technology expert (2021-2022)
 Project "Practic Avansat pentru succesul n cariera INGINereasc - PAVING, cod SMIS:130354"
 Beneficiary Universitatea Tehnic din Cluj-Napoca
 Webpage <https://ctfs.utcluj.ro/index.php/anunturi/finalizarea-implementarii-proiectului-practica-avansata-pentru-succesul-in-cariera.html>

Position Research Assistant (2005-2007)
 Project "Collaborative/Competitive Multi-Agent System Oriented on E-Business"
 Beneficiary CNCSIS, Romanian Ministry of Education and Research

Position Research Assistant (2003-2004)
 Project "Software Agents for Processing the Semantic Web"
 Beneficiary CNCSIS, Romanian Ministry of Education and Research

Research Assistant
 Technical University of Cluj-Napoca

Director: Ioan Alfred Letia
 2005-2007

Collaborative/Competitive Multi-Agent System Oriented on E-Business, 2005-2007

PC Chair

MIKE 2018, Cluj-Napoca, Romania, December 2018

1st CFAUAS, Cluj-Napoca, Romania, September 2013

2nd CFAUAS, Chisinau, Republic of Moldova, 23 October 2014

PC Member/Reviewer

Journals (reviewer): Information Technology Research J., Argument&Computation, Expert Systems with Applications,

2024: CAiSE, AIET, ICCP

2023: CAiSE, xAI, KSEM, ISM, GNAC, ICCP

2022: IDC, ACIIDS

2021: ICCP

2020: WASA 2020 Workshop on Applications of Software Agents INISTA 2020 (Novi Sad, Serbia)

2019: MIKE (Sri City, India) ICCP, (Cluj-Napoca, RO), WASA, BCI (Sofia, Bulgaria)

2017: ICCP, (Cluj-Napoca, RO)

2016: ICCP, (Cluj-Napoca, RO), ICDT (Lisbon, Portugal), INISTA (Sinaia, RO)

2015: ICCP, (Cluj-Napoca, RO), BCI (Craioava, Romania), WASA (Craiova, Romania),

2014: ICCP, (Cluj-Napoca, RO), WBC (Lisbon, PO), WASA (Thessaloniki, GR), MEI (LV, USA)

2013: ICCP, (Cluj-Napoca, RO), CT (Prague, Czech), ICDT (Venice, Italy), ICASCE (Jakarta)

2012: SSW, (Barcelona, Spain), ICCP, (Cluj-Napoca, Romania), MCCSIS, (Lisbon, Portugal)

2011: ICCP, (Cluj-Napoca, Romania)

2010: ICCT (Freiburg, Germany), ICCP (Cluj-Napoca, Romania)

2009: NDT (Ostrava, Cehia), ICCP (Cluj-Napoca, Romania), ICADIWT (London, UK),

2008: ROCHI (Iasi, Romania)

Proceedings Editor

Groza, Adrian, and Rajendra Prasath, eds. Mining Intelligence and Knowledge Exploration: 6th International Conference, MIKE 2018, Cluj-Napoca, Romania, December 20–22, 2018, Proceedings. Vol. 11308. Springer, 2018.

Books

A. Groza. Modelling Puzzles in First Order Logics. DOI 10.1007/978-3-030-62547-4, ISBN 978-3-030-62547-4, Springer, 2021, (accompanying website)

A. Groza. Artificial Intelligence. Exercises. U.T. Press, 2019, ISBN 978-606-737-374-5

A. Groza, R.R. Slavescu, A. Marginean. Introduction to Artificial Intelligence, U.T. Press, 2019, ISBN 978-606-737-290-8

A. Groza. Ontology Engineering with RacerPro - An Activity Based Approach, U.T. Press, 2014, ISBN 978-973-662-991-4

ISI Journals

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References

- [1] George Adrian Muntean, Adrian Groza, Anca Marginean, Radu Razvan Slavescu, Mihaela Gabriel Steiu, Valentin Muntean, and Simona Delia Nicoara. Artificial intelligence for personalised ophthalmology residency training. *Journal of Clinical Medicine*, 12(5), 2023.
- [2] Ioana Cheres and Adrian Groza. The profile: unleashing your deepfake self. *Multimedia Tools and Applications*, pages 1–16, 2023.
- [3] G.A. Muntean, A. Marginean, A. Groza, I. Damian, Roman S.A., M.C. Hapca, M.V. Muntean, and S.D. Nicoar. The predictive capabilities of artificial intelligence-based oct analysis for age-related macular degeneration progression: a systematic review. *Diagnostics*, 13(14), 2023.
- [4] Beatrice-Andreea Marginean, Adrian Groza, George Muntean, and Simona Delia Nicoara. Predicting visual acuity in patients treated for amd. *Diagnostics*, 12(6):1504, 2022.
- [5] Sergiu Bilc, Adrian Groza, George Muntean, and Simona Delia Nicoara. Interleaving automatic segmentation and expert opinion for retinal conditions. *Diagnostics*, 12(1):22, 2021.
- [6] Anca Nicoleta Marginean, Delia Doris Muntean, George Adrian Muntean, Adelina Priscu, Adrian Groza, Radu Razvan Slavescu, Calin Lucian Timbus, Gabriel Zeno Munteanu, Cezar Octavian Morosan, Maria Margareta Cosnarovici, et al. Reliable learning with pde-based cnns and densenets for detecting covid-19, pneumonia, and tuberculosis from chest x-ray images. *Mathematics*, 9(4):434, 2021.
- [7] Adrian Groza, Liana Todorean, George Adrian Muntean, and Simona Delia Nicoara. Agents that argue and explain classifications of retinal conditions. *Journal of Medical and Biological Engineering*, 41(5):730–741, 2021.
- [8] Cristina Nica, Victor-Petru Almășan, and Adrian Groza. Fastrca-seq: An efficient approach for extracting hierarchies of multilevel closed partially-ordered patterns. *Knowledge-Based Systems*, 210:106533, 2020.
- [9] Adrian Groza, Pinar Ozturk, Radu Razvan-Slavescu, and Anca Marginean. Climate change opinions in online debate sites. *Computer Science and Information Systems*, 17(1):93–116, 2020.
- [10] Ștefan Conțiu and Adrian Groza. Improving remote sensing crop classification by argumentation-based conflict resolution in ensemble learning. *Expert Systems with Applications*, 64:269–286, 2016.
- [11] Sergio Alejandro Gomez, Anca Goron, Adrian Groza, and Ioan Alfred Letia. Assuring safety in air traffic control systems with argumentation and model checking. *Expert Systems with Applications*, 44:367 – 385, 2016.
- [12] Ioan Alfred Letia and Adrian Groza. Compliance checking of integrated business processes. *Data & Knowledge Engineering*, 87(0):1 – 18, 2013.
- [13] Ioan Alfred Letia and Adrian Groza. Argumentative support for structured HACCP plans. *Advances in Electrical and Computer Engineering*, 10(2):115–120, 2010.
- [14] Ioan Alfred Letia and Adrian Groza. Modelling imprecise arguments in description logic. *Advances in Electrical and Computer Engineering*, 9(3):94–99, 2009.

BDI Conferences/Journals

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References

- [1] Aurelian Ionescu, Luciana Morogan, and Adrian Groza. Artificial intelligence in teaching and learning for student-centered education. FOHE-BPRC5.
- [2] Groza Adrian. First order logic for command understanding. ICARA 2024.
- [3] Groza Adrian. Measuring reasoning capabilities of chatgpt.

- [4] Marco Pop-Mihali and Adrian Groza. Forest mixing: investigating the impact of multiple search trees and a shared refinements pool on ontology learning. In *10th International Conference on Artificial Intelligence & Applications*, ARIA23.
- [5] Alexandru Motogna and Groza Adrian. Interleaving gans with knowledge graphs to support design creativity for book covers. 2023.
- [6] Dan Lupu, Groza Adrian, and Adam Pease. Cross-validation of answers with sumo and gpt. In *Knowledge Base Construction from Pre-Trained Language Models*, Workshop @ 22nd International Semantic Web Conference (ISWC 2023).
- [7] Mircea Serban Vasiliniuc and Adrian Groza. Case study: Using ai-assisted code generation in mobile teams. ICCP'23.
- [8] Patricia Mateiu and Adrian Groza. Ontology engineering with large language models. In *25th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*, SYNASC23.
- [9] Stefan Morar, Adrian Groza, and Mihai Pomarlan. Formalising natural language quantifiers for human-robot interactions. In *9th International Workshop on Artificial Intelligence and Cognition*, AIC23.
- [10] Eugen Popescu, Adrian Groza, and Damian Ioana. Detecting diabetic retinopathy through fundus images using an ensemble of classifiers. In *11th International Conference on Advanced Technologies*, ICAT23.
- [11] Adrian Groza. Teaching first order logic with friendly puzzles. In Cheng E.C.K. Wang T. Schlippe, T., editor, *Artificial Intelligence in Education Technologies: New Development and Innovative Practices. AIET 2023. Lecture Notes on Data Engineering and Communications Technologies*, AIET2023.
- [12] Raluca Brehar, Adrian Groza, Ioana Damian, George Muntean, and Simona Delia Nicoară. Age-related macular degeneration biomarker segmentation from oct images. In *2023 24th International Conference on Control Systems and Computer Science (CSCS)*, pages 444–451. IEEE, 2023.
- [13] Anca Marginean Groza, Adrian and Simona Delia Nicoara. An ontology for age-related macular degeneration using ophthalmologists and language models. In *14th Int. Conf. on Semantic Web Applications and Tools for Health Care and Life Sciences*, SWAT4LS,23, 2023.
- [14] Adrian Groza and Mihai Pomarlan. Towards an ontology of explanations. In Rubina Polovina, Simon Polovina, and Neil Kemp, editors, *Measuring Ontologies for Value Enhancement: Aligning Computing Productivity with Human Creativity for Societal Adaptation*, pages 73–85, Cham, 2023. Springer Nature Switzerland.
- [15] Adrian Groza Borbla Fazakas, Beta Keresztes. Generating and solving the lights out! game in first order logic. In *IEEE 18th International Conference on Intelligent Computer Communication and Processing*, ICCP'22, 2022.
- [16] Iulia Dragan and Adrian Groza. Ensemble-based knowledge distillation for semantic segmentation in autonomous driving. In *IEEE 18th International Conference on Intelligent Computer Communication and Processing*, ICCP'22, 2022.
- [17] Vlad Cofaru and Adrian Groza. Detecting clickbaits using deep forest. In *IEEE 18th International Conference on Intelligent Computer Communication and Processing*, ICCP'22, 2022.
- [18] Aron Katona Adrian Groza. Face: Fact checker with explanations. In *24th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*, SYNASC22, 2022.
- [19] Adrian Groza. Detecting fake news using machine learning and reasoning in description logic. In *6th Workshop on Complexity in Engineering*, COMPENG22, pages 1–4, 2022.
- [20] Ioan Alfred Letia and Adrian Groza. Modeling and simulation with ontology streams for agents interactions. In *6th Workshop on Complexity in Engineering*, ESM22, 2022.

- [21] Loredana Coroama and Adrian Groza. Evaluation metrics in explainable artificial intelligence (xai). In Teresa Guarda, Filipe Portela, and Maria Fernanda Augusto, editors, *Advanced Research in Technologies, Information, Innovation and Sustainability*, ARTIIS'22, pages 401–413, Cham, 2022. Springer Nature Switzerland.
- [22] S. Uscov and A. Groza. Cat de inteligent este artificial intelligence act? *Curierul judiciar*, (2):70–83, 2022.
- [23] Adrian Groza and Cristian Nitu. Question answering over logic puzzles using theorem proving. In *Proceedings of the 37th ACM/SIGAPP Symposium on Applied Computing*, pages 871–874, 2022.
- [24] A. Groza P. Mateiu and C. Nica. Learning ontologies with relational concept analysis. In *IEEE 20th Jubilee World Symposium on Applied Machine Intelligence and Informatics (SAMI), 3-5 March 2022, Poprad, Slovakia* (. IEEE, 2022.
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- [26] Roxana Szomiu and Adrian Groza. A puzzle-based dataset for natural language inference. *The 16th Int. Conf. on Linguistic Resources and Tools for Natural Language Processing, 13-14 December 2021, Iasi, Romania*, 2021.
- [27] Loredana Coroama and Adrian Groza. Explainable artificial intelligence for person identification. In *2021 IEEE 17th International Conference on Intelligent Computer Communication and Processing (ICCP)*, pages 375–382. IEEE, 2021.
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- [31] Anca Marginean, Adrian Groza, Simona Delia Nicoara, George Muntean, Radu Razvan Slavescu, and Ioan Alfred Letia. Towards balancing the complexity of convolutional neural network with the role of optical coherence tomography in retinal conditions. In *2019 IEEE 15th International Conference on Intelligent Computer Communication and Processing (ICCP)*, pages 475–482. IEEE, 2019.
- [32] Adrian Groza, 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)*, pages 37–44. IEEE, 2018.
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- [34] Adrian Groza and Iulia Ungur. Improving conflict resolution in version spaces for precision agriculture. *International Journal of Agricultural Science*, 3, 2018.
- [35] Sergiu Redeca and Adrian Groza. Designing agents for the stratego game. In *2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP)*, pages 97–104. IEEE, 2018.

- [36] Daniel Toniuc and Adrian Groza. Climebot: An argumentative agent for climate change. In *Intelligent Computer Communication and Processing (ICCP), 2017 13th IEEE International Conference on*, pages 63–70. IEEE, 2017.
- [37] Roxana Szabo and Adrian Groza. Analysing debates on climate change with textual entailment and ontologies. In *Intelligent Computer Communication and Processing (ICCP), 2017 13th IEEE International Conference on*, pages 39–46. IEEE, 2017.
- [38] Adrian Groza and Madalina Mandy Nagy. Harmonization of conflicting medical opinions using argumentation protocols and textual entailment—a case study on parkinson disease. In *Intelligent Computer Communication and Processing (ICCP), 2016 IEEE 12th International Conference on*, pages 163–170. IEEE, 2016.
- [39] Adrian Groza and Oana Maria Popa. Mining arguments from cancer documents using natural language processing and ontologies. In *Intelligent Computer Communication and Processing (ICCP), 2016 IEEE 12th International Conference on*, pages 77–84. IEEE, 2016.
- [40] Calin Cara, Adrian Groza, Sergiu Zaporojan, and Igor Calmicov. Assisting drivers during overtaking using car-2-car communication and multi-agent systems. In *Intelligent Computer Communication and Processing (ICCP), 2016 IEEE 12th International Conference on*, pages 293–299. IEEE, 2016.
- [41] A. Groza, I. A. Letia, A. Goron, and S. Zaporojan. A formal approach for identifying assurance deficits in unmanned aerial vehicle software. In H. Selvaraj, D. Zydek, and G. Chmaj, editors, *In Proceedings of 23 International Conference on Systems Engineering, Las Vegas, USA*, volume 1089 of *Advances in Intelligent Systems & Computing Series*. Springer International Publishing, 2015.
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- [45] Adrian Groza and Szabo Roxana. Enacting textual entailment and ontologies for automated essay grading in chemical domain. In *16th Int. Symposium on Computational Intelligence and Informatics (CINTI2015), Budapest, Hungary, 19-21 November*. IEEE, 2015.
- [46] Adrian Groza. Data structuring for the ontological modelling of wind energy systems. In *4th Int. Conf. on Modelling and Development of Intelligent Systems (MDIS2015), Sibiu, Romania, 28 Oct. - 1 Nov. 2015*, 2015.
- [47] A. Groza, I. Dragoste, I. Sincai, and I. Jimborean. An ontology selection and ranking system based on analytical hierarchy process. In *16th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC2014), Timisoara, Romania, 22-25 September 2014.*, 2014.
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- [49] Ioana Jimborean and Adrian Groza. Ranking ontologies in the ontology building competition boc 2014. In *IEEE 10th International Conference on Intelligent Computer Communication and Processing (ICCP2014)*, Cluj-Napoca, Romania, 4-6 September 2014, pages 75–82. IEEE, 2014.
- [50] Daniel Suciu and Adrian Groza. Interleaving ontology-based reasoning and natural language processing for character identification in folktales. In *IEEE 10th International Conference on Intelligent Computer Communication and Processing (ICCP2014)*, Cluj-Napoca, Romania, 4-6 September 2014, pages 67–74. IEEE, 2014.
- [51] S. A. Gomez, A. Goron, and A. Groza. Assuring safety in an air traffic control system with defeasible logic programming. In *Argentine Symposium on Artificial Intelligence (ASAI14)*, 1-5 September 2014, Buenos Aires, Argentina, 2014.
- [52] V. Muresan, A. Abrudean, and A. Groza. Numerical simulation and automatic control of the ph value in an industrial blunting system. In *ICINCO2014*, 1-3 September, Vienna, Austria, 2014.
- [53] A. Groza, A. Marginean, and V. Muresan. An ontology-based model for vehicular ad-hoc networks. In *18th IEEE International Conference on Intelligent Engineering Systems (INES2014)*, 3-5 July, Tihany, Hungary. IEEE, 2014.
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- [55] Vasile Moraru, Sergiu Zaporojan., and Adrian Groza. A second order-cone programming relaxation for facility location problem. In *Development and Application Systems (DAS), 2014 International Conference on*, pages 189–191, May 2014.
- [56] Adrian Groza, Bogdan Iancu, and Anca Marginean. A multi-agent approach towards cooperative overtaking in vehicular networks. In Rajendra Akerkar, Nick Bassiliades, John Davies, and Vadim Ermolayev, editors, *WIMS*, page 48. ACM, 2014.
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A handwritten signature in black ink, consisting of a stylized, cursive script that appears to be the name 'Ioan' followed by a surname, possibly 'Leția'.