

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Liviu-Adrian Cotfas**
Address 8a, Baba Novac Street, bl. C, 3rd District, Bucharest, 031628, Romania
Phone +40.771.269.599
Email liviu.cotfas@gmail.com
Nationality Romanian
Date of birth 13/06/1985

Work experience

Dates 01/10/2017 →
Name and address of employer **Bucharest University of Economic Studies (Bucharest, Romania)**
Occupation or position held Associate Professor
Main activities and responsibilities Courses taught in **English**: Web and Cloud Applications Security, Windows Applications Programming (.NET Framework / C#), Web Multimedia (HTML5, CSS3, JavaScript).

Dates 17/11/2005 →
Name and address of employer **Softscape Data Solutions SRL (Bucharest, Romania)**
Occupation or position held Owner & Founder
Main activities and responsibilities I have developed or coordinated the development of several ASP.NET Core MVC, ASP.NET MVC, Windows 10 and Windows Phone applications including: CleverTaxi (Windows Phone), CrisTaxi (Windows Phone) and Ziarul Financiar (Windows 8). I have also held several trainings on various Microsoft technologies, including ASP.NET MVC, Windows Presentation Foundation and Silverlight. Some of our clients: Microsoft, ING Bank, European Investment Bank, Generali, CleverTaxi, Intergraph, Best Business Travel, VP Ventures NV, Tremex Consulting.

Dates 17/10/2019 → 31/12/2019
Name and address of employer **University of Naples Federico II (Naples, Italy)**
Occupation or position held Visiting Fellow
Using multi-agent systems for analyzing the companies' behavior in a changing market, the emergency evacuation process and the aircraft boarding process. I have also cooperated in the development of a Master thesis project (Managerial Engineering) aimed at building an agent-based model for the simulation of the evacuation processes in emergency conditions from cruise ships.

Dates 11/09/2018 → 10/10/2018
Name and address of employer **Université de Technologie de Belfort Montbéliard (Montbéliard, France)**
Occupation or position held Invited Professor
Analyzing the opportunities of using IoT and semantic web technologies in an educational context, as well as for creating products with a high degree of personalization and ergonomics.

Dates 01/10/2013 → 30/09/2017
Name and address of employer **Bucharest University of Economic Studies (Bucharest, Romania)**

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| Occupation or position held | Lecturer |
| Main activities and responsibilities | Classes taught: Object Oriented Programming (C++), Windows Applications Programming (C#), Multimedia (HTML5, CSS3, JavaScript). |
| Dates | 01/04/2014 → 30/11/2015 |
| Name and address of employer | Frache-Comté University (Montbéliard, France) |
| Occupation or position held | Researcher |
| Main activities and responsibilities | Apply the technologies of the semantic web to perform sentiment analysis and information extraction from social media networks, as a member of the project "Communication strategies for the management of post nuclear accident situations: social networks (Stratégie de communication en gestion post-accident nucléaire: usage des médias sociaux)". Writing and submitting a project proposal to Microsoft Research, for which I have been awarded a Microsoft Azure Research Grant with a total value of 20.000\$. |
| Dates | 01/01/2014 → 01/10/2015 |
| Name and address of employer | Carol Davila University of Medicine and Pharmacy (Bucharest, Romania) |
| Occupation or position held | Researcher |
| Main activities and responsibilities | Develop a tele-healthcare information system for cardio rehabilitation, as a member of the European project Future Internet Social and Technological Alignment Research (FI-STAR - FP7-604691). |
| Dates | 01/04/2013 → 31/12/2013 |
| Name and address of employer | Polytechnic University of Bucharest (Bucharest, Romania) |
| Occupation or position held | Researcher |
| Main activities and responsibilities | Implement a Supervisory Control and Data Acquisition - SCADA system for monitoring and controlling heating, cooling and ventilation in an experimental Passive House. The system has been developed for the European research project POS-CCE No. 181/18.06.2010: Framework for service composition based on ontologies for the aggregation of knowledge and information for intelligent buildings (FCINT). Technologies used: Windows Presentation Foundation, Entity Framework |
| Dates | 01/02/2012 → 30/09/2013 |
| Name and address of employer | Bucharest University of Economic Studies (Bucharest, Romania) |
| Occupation or position held | Assistant Lecturer |
| Main activities and responsibilities | Classes taught: Object Oriented Programming (C++), Windows Applications Programming (C#), Assembly Languages and Multimedia. |
| Dates | 01/12/2012 - 31/05/2013 |
| Name and address of employer | Frache-Comté University (Montbéliard, France) |
| Occupation or position held | Researcher |
| Main activities and responsibilities | Develop an Alternate Reality Gaming platform that facilitates the creation of immersive learning environments. Highlights: Alternate Reality Games, Transmedia, Gamification, Cloud Computing. |
| Dates | 01/03/2008 → 05/06/2013 |
| Name and address of employer | TotalSoft SA (Bucharest, Romania) |
| Occupation or position held | Software Developer |
| Main activities and responsibilities | I have been involved in several projects, including: <ul style="list-style-type: none"> ▪ Vodafone PCViewer - Develop an ASP.NET MVC project based on S#arp Architecture using jQuery, HTML5 and CSS3. The project integrates data from multiple Java web services and relies on NHibernate as ORM. The application offers excellent performance thanks to the extensive usage of client-side data storage and processing implemented using jQuery and HTML5; |

- **ExtraFilm** - develop a complex Silverlight project in Belgium between May – Oct. 2010 which has won the **Gold Prize** at Microsoft Shape 2010 - The Web & Cloud Conference;
- **Medicover/CMS** - develop web and desktop applications involving specialized medical protocols like HL7 and DICOM between Jan. 2009 – Apr. 2010;
- **eLicitation** - develop new modules for a complex web application between Sept. – Dec. 2008 and Oct. – Dec. 2011 which has won the Prize for the most complex project developed by TotalSoft in 2008;
- **Ipsos** - develop a web issue tracking application between Mar. – Aug. 2008.

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| Dates | 01/10/2008 → 31/01/2012 |
| Name and address of employer | Bucharest University of Economic Studies (Bucharest, Romania) |
| Occupation or position held | Pre-Assistant Lecturer |
| Main activities and responsibilities | Classes taught: Object Oriented Programming (C++), Windows Applications Programming (C#), Assembly Languages and Multimedia. |
| Dates | 01/10/2008 - 01/10/2011 |
| Name and address of employer | Bucharest University of Economic Studies (Bucharest, Romania) |
| Occupation or position held | Researcher |
| Dates | 05/06/2002 - 01/11/2005 |
| Name and address of employer | Web Expert Pro SRL (Bucharest, Romania) |
| Occupation or position held | Web Developer |
| Main activities and responsibilities | Development of web applications using PHP and Flash. |
| Education and training | |
| Dates | 09/04/2020 |
| Title of qualification awarded | Habilitation |
| Principal subjects / occupational skills covered | Thesis title - "Recent Advancements in the Artificial Intelligence Domain: Semantic Web, Natural Language Processing and Multi-Agent Systems" |
| Name and type of organization providing education and training | Bucharest University of Economic Studies |
| Dates | 01/10/2008 - 01/07/2011 |
| Title of qualification awarded | PhD / Doctor of Philosophy |
| Principal subjects / occupational skills covered | Thesis title - "Distributed Architectures for Collaborative Geographic Information Systems" |
| Name and type of organization providing education and training | Bucharest University of Economic Studies |
| Dates | 01/10/2010 - 01/06/2011 |
| Title of qualification awarded | PhD Mobility |
| Principal subjects / occupational skills covered | Main topics: Personalized Recommender Systems and Location Based Services |
| Name and type of organization providing education and training | Free University of Bozen-Bolzano (Italy) |
| Dates | 01/10/2004 - 01/07/2008 |
| Title of qualification awarded | Bucharest University of Economic Studies |
| Principal subjects / occupational skills covered | Faculty average 9.58. Bachelor's degree graded with 10. |

Name and type of organization providing education and training

Faculty of Cybernetics, Statistics and Informatics, Bucharest University of Economic Studies

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment
European level ()*

English

French

| Understanding | | | | Speaking | | | | Writing | |
|---------------|------------------|---------|------------------|--------------------|------------------|-------------------|------------------|---------|------------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user |
| B2 | Independent user | B2 | Independent user | B2 | Independent user | B2 | Independent user | B2 | Independent user |

(*) [Common European Framework of Reference \(CEF\) level](#)

Technical skills and competences

I am a quick learner, adapting quickly to new technologies.

Computer skills and competences

Languages: C# (advanced), C/C++ (intermediate), Python (intermediate), PHP (intermediate), Java (beginner)

Desktop: UWP (advanced), WinRT (advanced), WPF (advanced), Windows Forms (advanced)

Mobile: Windows Phone (advanced), Android (beginner)

Web (server): ASP.NET MVC Core (advanced), ASP.NET WebForms (advanced), PHP (intermediate)

Web (client): HTML5 (advanced), CSS3 (advanced), JavaScript (advanced), jQuery (advanced), Bootstrap (advanced), Silverlight (advanced)

Database/ORM: Entity Framework (advanced), SQL Server (intermediate), MySQL (intermediate), Oracle (intermediate), PostgreSQL (intermediate)

Additional information

Awards/Degrees

2020

Top Reviewer Award from MDPI

“Evaluating Classical Airplane Boarding Methods Considering COVID-19 Flying Restrictions” selected as a **Feature Paper** by the **Symmetry** journal

2019

Top Peer Reviewer awarded for placing in the top 1% of reviewers in the Cross-Field category in the **Publons (Web of Science)** global reviewer database

Emerald Literati Award for Outstanding Reviewer

4 x ISI Publications Award from UEFISCDI for papers published in Q1 and Q2 in 2019

4 x ISI Publications Award from UEFISCDI for papers published in Q1 and Q2 in 2018

Georgescu Roegen Award for Excellence in Scientific Research awarded by the Bucharest University of Economic Studies

“Greedy Method for Boarding a Partially Occupied Airplane Using Apron Buses” selected as a **Feature Paper** by the **Symmetry** journal

2018

Excellent paper award at The Joint Conference of 2018 International Congress of Grey Systems and Uncertainty Analysis (GSUA) and 32nd Workshop of Grey System Society of China (GSSC)

Certificate of Excellence awarded by 31st IBIMA International Conference, Milano

2016

Certificate of Outstanding Contribution in Reviewing awarded by Physica A: Statistical Mechanics and its Applications

2015

Excellent Paper Award on Highly Commended Paper at the 2015 IEEE International Conference on Grey Systems and Intelligent Services

Microsoft Azure Research Award from **Microsoft Research**

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| 2014 | Georgescu Roegen Award for Excellence in Scientific Research awarded by the Bucharest University of Economic Studies |
| 2013 | Award for Excellence in Scientific Research from the Bucharest University of Economic Studies Excellent Paper Award on Highly Commended Paper at the 2013 IEEE International Conference on Grey Systems and Intelligent Services |
| 2010 - 2011 | PhD Mobility Scholarship at the Free University of Bozen-Bolzano, Italy |
| 2008 - 2011 | PhD scholarship at the Bucharest University of Economic Studies |
| 2007 - 2008 | Performance scholarship at the Bucharest University of Economic Studies Award for Scientific and Technical Innovation awarded by the Executive Unit for Financing Higher Education, Research, Development and Innovation - UEFISCDI National Finalist of the international Microsoft Imagine Cup competition (Software Design and Embedded Development) with a WPF/Silverlight project implementing an optimized Genetic Algorithm 1st prize Students' Research Competition (Polytechnic University of Bucharest) 1st prize Students' Research Competition - "Software Products Design" and "Software Products Development" sections 2nd prize ITFest Competition - „Web Development" section 2nd prize ICube (Innovation Initiative Incubator) Competition Oracle Academic Initiative Award |
| 2006 - 2007 | National Finalist of the international Microsoft Imagine Cup competition (Software Design) with a WPF project 1st prize ITFest Contest - „Web Design" and „Web Development" sections 2nd prize Students' Research Competition - „Database" and „Web Technologies" sections 3rd prize Students' Research Competition - „Object Oriented Programming" and" Data Structures" sections |
| 2005 - 2006 | 1st prize ITFest Competition - „Web Development" section 2nd prize Students' Research Competition - „Computer programming" section 3rd prize Students' Research Competition - „Micro Economy" section |
| 2004 - 2005 | 2nd prize Students' Research Competition - „Web Technologies" section |
| 2000 - 2004 | Several prizes at Mathematics and Physics contests. I was a member of the excellence classes for Mathematics and Physics in Bucharest. |

Publications

36 journal articles, 30 conference proceedings and 3 books
(available at: <https://scholar.google.ro/citations?hl=en&user=nE3eRZAAAAAJ>)

Research projects

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| Director | “Distributed Architectures for Collaborative Geographic Information Systems” from the Bucharest University of Economic Studies “Semantic Web-based Social Media Emotion Analysis” Microsoft Azure for Research Grant from Microsoft Research with a total value of 20.000\$, while working as a researcher at Franche-Comté University |
| Partner team leader | “Empirical modelling and experimental development of emerging technologies tools for online social networks” (FutureSocialWeb) from UEFISCDI |
| Member | “Stratégie de communication en gestion post-accident nucléaire: usage des médias sociaux” “Ontologies based framework for service composition” “Future Internet Social and Technological Alignment Research” “Multi-hazard and vulnerability in the seismic context of the city of Bucharest” “Compared analysis models applied in market studies” |

Reviewer

Journals/Conferences More than **170 reviews** for various journals and conferences:

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| | <p>Kybernetes, Grey Systems - Theory and Application, Journal of Grey Systems (Elsevier), Physica A: Statistical Mechanics and its Applications (Elsevier), Journal of Applied Mathematical Modelling (Elsevier), An International Journal of Optimization, Vietnam Journal of Computer Science, IBIMA Conference (list of reviews: https://publons.com/researcher/1527648/liviu-adrian-coffas/peer-review/) Awards: Top Peer Reviewer (Publons, 2019), Top Reviewer Award (MDPI, 2020)</p> |
| Research Projects | |
| 2020 | Funding agency: UEFISCDI, Romania; Program: EUREKA - 2019 |
| 2019 | Funding agency: National Science Center, Poland; Program: OPUS 17 Funding agency: UEFISCDI, Romania; Program: PTE 2019 Funding agency: UEFISCDI, Romania; Program: PED 2019 |
| 2018 | Funding agency: National Science Center, Poland; Program: Polish-Chinese Funding Initiative |
| Editor | |
| 2020 - | IEEE Access – Associate Editor |
| 2020 - 2024 | Grey Systems Theory and Application (Emerald) – Editorial Advisory Board Member |
| Journal Guest Editor | |
| 2020 | Special issue “Social Media Analysis” in the Designs Journal |
| 2019 | Special issue “Application of Fuzzy Logic Algorithms and Grey Systems Theory in Decision-Making” in the Sci Journal |
| Reviewer Board | |
| 2020 - | Brain Sciences (ISSN 2076-3425) Information (ISSN 2078-2489) |
| Conference Committee Member | |
| 2020 | Member of the program committee for the 35th IBIMA Conference |
| 2020 | Member of the scientific committee for ICESS 2020 - The 3rd International Conference on Economics and Social Sciences, organized by the Bucharest University of Economic Studies |
| 2017 | International Conference on Grey Systems and Intelligent Services (GSIS) |
| 2014 | 13 th International Conference on Informatics in Economy (indexed in ISI Web of Science) |
| 2013 | 12 th International Conference on Informatics in Economy (indexed in ISI Web of Science) |
| Organizations | |
| 2016 - | Director of the International Association of Grey Systems and Uncertainty Analysis |
| 2016 - | Member of INFOREC |
| Courses/Certifications | |
| 2014 | Course - Machine Learning (Coursera) Course - Semantic Web Technologies (OpenHPI) |
| 2013 | Course - Windows 8 Modern Application Development (ENG-CEE) - EMEA467 |
| 2008 | Exam - Toefl iBT (103 points from 120 maximum) Course - Developing Microsoft ASP.NET 2.0 Web Applications Course - Programming and development of SQL 2005 databases |
| 2007 | Course - Training Live @Bitdefender (C/C++, MFC, Windows API, COM, DHTML) |
| Volunteer activity | |
| 2008 - 2010 | President of students' organization Microsoft Students Partners ASE |
| Projects | Several hands-on laboratories on ASP.NET, Silverlight and Popfly |

Publications List

An updated list of publications is available at: <https://scholar.google.com/citations?user=nE3eRZAAAAAJ&hl=en>

Articles published in international journals

- Ri1. R. John MILNE, Camelia DELCEA, **Liviu-Adrian COTFAS**, *Airplane Boarding Methods that Reduce Risk from COVID-19*, Safety Science, 2020, 105061, <https://doi.org/10.1016/j.ssci.2020.105061> (ISI – Impact factor 2019: 4.105), ISSN 0925-7535;
- Ri2. R. John MILNE, **Liviu-Adrian COTFAS**, Camelia DELCEA, Liliana CRACIUN, Anca-Gabriela MOLANESCU, *Adapting the reverse pyramid airplane boarding method for social distancing in times of COVID-19*, PLOS ONE, 2020, vol. 15, issue 11, <https://doi.org/10.1371/journal.pone.0242131>, (ISI – Impact factor 2019: 2.740), ISSN: 1932-6203 ;
- Ri3. Mostafa SALARI, R. John MILNE, Camelia DELCEA, Lina KATTAN, **Liviu-Adrian COTFAS**, *Social distancing in airplane seat assignments*, Journal of Air Transport Management, Elsevier, 2020, vol. 89, 101915, <https://doi.org/10.1016/j.jairtraman.2020.101915>, (ISI – Impact factor 2019: 3.527), ISSN: 0969-6997 – **Paper included in “Relevant Research” by Elsevier**, link: <https://covid19.elsevierpure.com/en/publications/social-distancing-in-airplane-seat-assignments> ;
- Ri4. R. John MILNE, Camelia DELCEA, Liviu-Adrian COTFAS, Corina IOANAS, *Evaluation of Boarding Methods Adapted for Social Distancing when using Apron Buses*, IEEE Access, 2020, 8, pp. 151650-151667, <https://doi.org/10.1109/ACCESS.2020.3015736> ISI – Impact factor 2019: 3.745), ISSN 2169-3536 6997 – **Paper included in “Relevant Research” by Elsevier**, link: <https://covid19.elsevierpure.com/en/publications/evaluation-of-boarding-methods-adapted-for-social-distancing-when> ;
- Ri5. Liviu-Adrian COTFAS, Camelia DELCEA, R. John MILNE, Mostafa SALARI, *Evaluating Classical Airplane Boarding Methods Considering COVID-19 Flying Restrictions*, Symmetry 12(7), 1087, <https://doi.org/10.3390/sym12071087>, (ISI – Impact factor 2019: 2.645), ISSN 2073-8994 – **Selected as Feature Paper and Highly Accessed Paper by the journal and included in Relevant Research” by Elsevier**, link: <https://covid19.elsevierpure.com/en/publications/evaluating-classical-airplane-boarding-methods-considering-covid-> ;
- Ri6. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ioana-Alexandra BRADEA, Marcel-Ioan BOLOȘ, Gabriella FERUZZI, *Investigating the Exits’ Symmetry Impact on the Evacuation Process of Classrooms and Lecture Halls: An Agent-Based Modeling Approach*, Symmetry, 2020, 12(4), 627, <https://doi.org/10.3390/sym12040627>, (ISI – Impact factor 2018: 2.143), ISSN 2073-8994;
- Ri7. Camelia DELCEA, Liliana CRACIUN, Corina IOANAS, Gabriella FERRUZZI, **Liviu-Adrian COTFAS**, *Determinants of Individuals’ E-Waste Recycling Decision: A Case Study from Romania*, Sustainability, SI: A Sustainable Revolution: Lets Go Sustainable to Get our Globe Cleaner, 2020, <https://doi.org/10.3390/su12072753>, (ISI- Impact factor 2018: 2.592), ISSN 2071-1050;
- Ri8. R. John MILNE, **Liviu-Adrian COTFAS**, Camelia DELCEA, Mostafa SALARI, Liliana CRACIUN, Anca-Gabriela MOLANESCU, *Airplane Boarding Method for Passenger Groups when using Apron Buses*, IEEE Access, 2020, (ISI – Impact factor 2018: 4.098), ISSN 2169-3536;
- Ri9. R. John MILNE, **Liviu-Adrian COTFAS**, Camelia DELCEA, Mostafa SALARI, Liliana CRACIUN, Anca-Gabriela MOLANESCU, *Greedy Method for Boarding a Partially Occupied Airplane using Apron Buses*, Symmetry 2019, 11(10), 1221; <https://doi.org/10.3390/sym11101221> (ISI – Impact factor 2018: 2.143), ISSN 2073-8994 (selected by the journal as a **Feature Paper**);
- Ri10. Camelia DELCEA, **Liviu-Adrian COTFAS**, Liliana CRACIUN, Anca-Gabriela MOLANESCU, *An Agent-based Modeling Approach to Collaborative Classrooms Evacuation Process*, Safety Science, 2020, 121, 414-429; <https://doi.org/10.1016/j.ssci.2019.09.026> (ISI – Impact factor 2018: 3.619), ISSN 0925-7535;
- Ri11. Camelia DELCEA, R. John MILNE, **Liviu-Adrian COTFAS**, Liliana CRACIUN, Anca-Gabriela MOLANESCU, *Methods for Accelerating the Airplane Boarding Process in the Presence of Apron Buses*, IEEE Access, 2019, 7, pp. 134372-134387, 10.1109/ACCESS.2019.2941532 (ISI – Impact factor 2018: 4.098), ISSN 2169-3536;
- Ri12. **Liviu-Adrian COTFAS**, Camelia DELCEA, R. John MILNE, Mostafa SALARI, Liliana CRACIUN, Anca-Gabriela MOLANESCU, *Testing New Methods for Boarding a Partially Occupied Airplane Using Apron Buses*, Symmetry 2019, 11(8), 1044; <https://doi.org/10.3390/sym11081044>, (ISI – Impact factor 2018: 2.143), ISSN 2073-8994;
- Ri13. R. John MILNE, Camelia DELCEA, **Liviu-Adrian COTFAS**, Mostafa SALARI, *New methods for two-door airplane boarding using apron buses*, Journal of Air Transport Management, Elsevier, 2019, vol. 80, no. 101705, <https://doi.org/10.1016/j.jairtraman.2019.101705>, (ISI – Impact factor 2018: 2.412), ISSN: 0969-6997;
- Ri14. Camelia DELCEA, **Liviu-Adrian COTFAS**, Liliana CRACIUN, Anca-Gabriela MOLANESCU, *Establishing the Proper Seating Arrangement in Elevated Lecture Halls for a Faster Evacuation Process*, IEEE Access, 7(1), pp. 48500-48513, 10.1109/ACCESS.2019.2909637 (ISI – Impact factor 3.557), ISSN 2169-3536;
- Ri15. Camelia DELCEA, **Liviu-Adrian COTFAS**, *Increasing awareness in classroom evacuation situations using agent-based modeling*, Physica A: Statistical Mechanics and its Applications, <https://doi.org/10.1016/j.physa.2019.04.137>, 2019 (ISI – Impact factor 2.132), ISSN 0378-4371;

- Ri16. Camelia DELCEA, **Liviu-Adrian COTFAS**, Carmen Lenuta TRICA, Liliana CRACIUN, Anca-Gabriela MOLANESCU, *Modeling the Consumers Opinion Influence in Online Social Media in the Case of Eco-friendly Products*, Sustainability, 2019, 11(6), 1796, <https://doi.org/10.3390/su11061796>, (ISI- Impact factor: 2.075), ISSN 2071-1050;
- Ri17. Camelia DELCEA, **Liviu-Adrian COTFAS**, Mostafa SALARI, R. John MILNE, *Investigating the Random Seat Boarding Method without Seat Assignments with Common Boarding Practices Using an Agent-Based Modeling*, Sustainability 2018, 10(12), 4623; <https://doi.org/10.3390/su10124623> (ISI- Impact factor 2018: 2.592), ISSN 2071-1050;
- Ri18. Camelia DELCEA, **Liviu-Adrian COTFAS**, Liliana CRACIUN, Anca-Gabriela MOLANESCU, *Are Seat and Aisle Interferences Affecting the Overall Airplane Boarding Time? An Agent-Based Approach*, Sustainability 2018, 10(11), 4217; <https://doi.org/10.3390/su10114217>, (ISI- Impact factor 2018: 2.592), ISSN 2071-1050;
- Ri19. Camelia DELCEA, **Liviu-Adrian COTFAS**, Nora CHIRITA, Ionut NICA, *A Two-Door Airplane Boarding Approach When Using Apron Buses*, Sustainability, 10 (10), 3619, 2018, (ISI- Impact factor 2018: 2.592), ISSN 2071-1050, doi: 10.3390/su10103619;
- Ri20. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ramona PAUN, *Agent-based Evaluation of the Airplane Boarding Strategies 'Efficiency and Sustainability*, Sustainability, 10 (6), 1879, 2018, (ISI- Impact factor 2018: 2.592), ISSN 2071-1050, doi:10.3390/su10061879;
- Ri21. Camelia DELCEA, Ioana BRADEA, **Liviu-Adrian COTFAS**, *Analysis of the Healthcare Risks' Incidence on Patients' Wellbeing State*, The Journal of Grey System, no. 1/2016, vol. 28, pp. 191-201, (ISI- Impact factor: 0.725), ISSN 0957-3720, Link: <http://connection.ebscohost.com/c/articles/112989116/analysis-healthcare-risks-incidence-patients-wellbeing-state>
- Ri22. Camelia DELCEA, Emil SCARLAT, **Liviu-Adrian COTFAS**, *Grey Relational Analysis of the Financial Sector in Europe*, The Journal of Grey System, no. 4/2013, vol. 25, pp. 19-30, 2013, (ISI Impact factor: 0.240), ISSN 0957-3720, Link: <http://connection.ebscohost.com/c/articles/93727021/grey-relational-analysis-financial-sector-europe>
- Ri23. Camelia DELCEA , Emil SCARLAT, **Liviu-Adrian COTFAS** - Companies' quality characteristics vs their performance: A grey relational analysis—evidence from Romania, Grey Systems: Theory and Application, vol. 3, no. 2, pp. 129-141, 2013, (EBSCO, INSPEC, ReadCube Discover, Summon), ISSN 2043-9377. <http://www.emeraldinsight.com/doi/abs/10.1108/GS-09-2012-0038>
- Ri24. Camelia DELCEA , Ioana BRADEA, Virginia MĂRĂCINE, Emil SCARLAT, **Liviu-Adrian COTFAS** - GM (1, 1) in bankruptcy forecasting, Grey Systems: Theory and Application, vol. 3, no. 3, pp. 250-265, 2013, (EBSCO, INSPEC, ReadCube Discover, Summon), ISSN 2043-9377. <http://www.emeraldinsight.com/doi/abs/10.1108/GS-08-2013-0014>
- Ri25. **Liviu-Adrian COTFAS**, Ioan Roxin - *Adaptable Alternate Reality Games Platform*. J. Mobile, Embed. Distrib. Syst. 5, 130–135 (2013), (DOAJ, Index Copernicus, EBSCO, Google Scholar, arXiv.org), ISSN: 2067 – 4074, http://www.jmeds.eu/index.php/jmeds/article/view/Adaptable_Alternate_Reality_Games_Platform
- Ri26. **Liviu-Adrian COTFAS** - *A quantum mechanical model for the rate of return*, Rom. Reports Phys., 65(2), pp. 327–333, 2013 (Impact Factor 1.137). http://www.rpp.infim.ro/2013_65_2/art01Cotfas.pdf
- Ri27. **Liviu-Adrian COTFAS**, *A finite-dimensional quantum model for the stock market*, Physica A: Statistical Mechanics and its Applications, vol. 392, no. 2, pp. 371-380, 2013, (ISI - Scor relativ de influență 1.20092, Factor de impact 1.722), 0378-4371.
- Ri28. Ion Smeureanu, Gheorghe Ruxanda, Andreea Diosteanu, Camelia Delcea, **Liviu-Adrian COTFAS**, *Intelligent agents and risk based model for supply chain management*, Technological and Economic Development of Economy, vol. 18, no.3, pp. 452-469, 2012, (ISI - Factor de impact 3.235), 2029-4913.
- Ri29. Ion SMEUREANU, Andreea DIOȘTEANU, Camelia DELCEA, **Liviu-Adrian COTFAS** - *Business Ontology for Evaluating Corporate Social Responsibility*, Amfiteatru Economic, vol. 29, pp. 28-42, 2011, (ISI - Factor de impact 0.757), ISSN 1582-9146.
- Ri30. **Liviu-Adrian COTFAS** - *Collaborative Itinerary Recommender Systems*, Economy Informatics Journal, vol. 11, no. 1, pp. 191-201, 2011, CNCS B+ (Cabell's Directories of Publishing Opportunitie, Directory of Open Access Journal, EBSCO, Index Copernicus, Index of Information Systems Journals, ProQuest), ISSN 1582-7941.
- Ri31. **Liviu-Adrian COTFAS**, Andreea DIOȘTEANU, Stefan Daniel DUMITRESCU, Alexandru SMEUREANU - *Semantic Search Itinerary Recommender Systems*, International Journal of Computers, vol. 5, no.3, pp. 370-377, 2011, (NAUN), ISSN 1998-4308.
- Ri32. Alexandru SMEUREANU, Stefan Daniel DUMITRESCU, **Liviu-Adrian COTFAS**, Andreea DIOȘTEANU - *Using self-organizing neural networks to improve optical network design*, International Journal of Communications, vol. 5, no. 2, pp. 79-86, 2011, (NAUN), ISSN 1998-4480
- Ri33. **Liviu-Adrian COTFAS**, Andreea DIOȘTEANU - *Public transport route finding using a hybrid genetic algorithm*, Informatica Economică, vol. 15, pp. 62-68, 2011, CNCSIS B+ (Directory of Open Access Journal, Cabell's Directories of Publishing Opportunities, EBSCO, ICAAP, Index Copernicus, Index of Information Systems Journals, Inspec, Open J-Gate, ProQuest Central, RePEc, Ulrich's Periodicals Directory), ISSN 1453-1305.
- Ri34. **Liviu-Adrian COTFAS**, Andreea DIOȘTEANU - *Software Reliability in Semantic Web Service Composition Applications*, Informatica Economică, vol. 14, pp. 48-56, 2010, CNCSIS B+ (Directory of Open Access Journal, Cabell's Directories of Publishing Opportunities, EBSCO, ICAAP, Index Copernicus, Index of Information Systems Journals, Inspec, Open J-Gate, ProQuest Central, RePEc, Ulrich's Periodicals Directory), ISSN 1453-1305.
- Ri35. **Liviu-Adrian COTFAS**, Dragoș PALAGHIȚĂ, Bogdan VINTILĂ - *Audit Techniques for Service Oriented Architecture Applications*, Informatica Economică, vol. 14, pp. 128-136, 2010, CNCSIS B+ (Directory of Open Access Journal, Cabell's Directories of Publishing Opportunities, EBSCO, ICAAP, Index Copernicus, Index of Information Systems Journals, Inspec, Open J-Gate, ProQuest Central, RePEc, Ulrich's Periodicals Directory), ISSN 1453-1305.
- Ri36. Ion SMEUREANU, Andreea DIOȘTEANU, **Liviu-Adrian COTFAS** - *Knowledge Dynamics in Semantic Web Service Composition for Supply Chain Management*, Journal of Applied Quantitative Methods, vol. 5, pp. 1-13, 2010, CNCSIS B+ (Cabell's, DOAJ, EBSCO, ERIC, GALE, ICAAP, IndexCopernicus, Open J-Gate, Ulrich's), ISSN 1842-4562.

- Ri37. **Liviu-Adrian COTFAS**, Mihai Cătălin CROICU, Dumitru COTFAS - *A Collaborative GIS Solution for Public Transport*, Informatica Economică, vol. 13, pp. 50-58, 2009, CNCSIS B+ (Directory of Open Access Journal, Cabell's Directories of Publishing Opportunities, EBSCO, ICAAP, Index Copernicus, Index of Information Systems Journals, Inspec, Open J-Gate, ProQuest Central, RePEc, Ulrich's Periodicals Directory), ISSN 1453-1305.
- Ri38. Andreea DIOȘTEANU, **Liviu-Adrian COTFAS** - *Agent Based Knowledge Management Solution using Ontology, Semantic Web Services and GIS*, Informatica Economică, vol. 13, pp. 90-98, 2009, CNCSIS B+ (Directory of Open Access Journal, Cabell's Directories of Publishing Opportunities, EBSCO, ICAAP, Index Copernicus, Index of Information Systems Journals, Inspec, Open J-Gate, ProQuest Central, RePEc, Ulrich's Periodicals Directory), ISSN 1453-1305.
- Ri39. **Liviu-Adrian COTFAS**, Andreea DIOȘTEANU - *Evaluating Accessibility in Crowdsourcing GIS, The Journal of Applied Collaborative Systems*, vol. 2, pp. 45-49, 2010, (INSPEC, Index COPERNICUS, EBSCO, Google Scholar, DOAJ), ISSN 2066-7450.
- Ri40. **Liviu-Adrian COTFAS**, Mihai Cătălin CROICU Andreea DIOȘTEANU - *Proposing a Methodology for Evaluating the Quality of Open Source GIS and Semantic Web Software Applications*, Open Source Science Journal, vol. 1, pp. 5-14, 2009, (INSPEC, Index COPERNICUS, EBSCO, Google Scholar, DOAJ) ISSN 2066-740X.

Articles presented at international conferences and published in conference proceedings

- Vi1. **Liviu-Adrian COTFAS**, Mihai ORZAN, Camelia DELCEA, Chuanmin MI - *Corporate Social Responsibility Evaluation on Social Media using Machine Learning and Semantic Web*, 29th EBES Conference, Lisbon, 2019.
- Vi2. Camelia DELCEA, **Liviu-Adrian COTFAS**, Rafal Mierzwiak, Mihai ORZAN - *Consumers Contagion in Online Social Networks Regarding Recycling Habits*, 29th EBES Conference, Lisbon, 2019.
- Vi3. **Liviu-Adrian COTFAS**, Ionut Costinel NICA - *Uncovering Social Media Users Emotions towards Companies using Semantic Web Technologies*, 28th EBES Conference, Coventry, 2019.
- Vi4. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ionut Costinel NICA - *Analyzing Customers' Opinions towards Product Characteristics using Social Media*, 28th EBES Conference, Coventry, 2019.
- Vi5. **Liviu-Adrian COTFAS**, Ioan ROXIN, Camelia DELCEA - *SEMANTIC SEARCH IN SOCIAL MEDIA ANALYSIS*. In: Proceedings of the 18th International Conference on Conference on Informatics in Economy (IE 2019), Bucharest University of Economic Studies Press, Bucharest, 2019.
- Vi6. **Liviu-Adrian COTFAS**, Camelia DELCEA, Ramona PĂUN - *Companies Image Evaluation using Social Media and Sentiment Analysis*, 26th EBES Conference, Prague, 2018.
- Vi7. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ramona PAUN, *Simulating the Airplane Passengers Boarding Using Agents*, Proceedings of the IE 2018 International Conference, 2018, Iasi, Romania.
- Vi8. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ioana BRADEA, *Grey Analysis of Airplane Passengers Boarding Time*, The Joint Conference of 2018 International Congress of Grey Systems and Uncertainty Analysis (GSUA) and 32th Workshop of Grey System Society of China (GSSC), 2018, Nanjing, China;
- Vi9. L. A. Cotfas, C. Delcea, I. Raicu, I. A. Bradea, and E. Scarlat, "Grey sentiment analysis using SentiWordNet," in 2017 International Conference on Grey Systems and Intelligent Services (GSIS), 2017, pp. 284–288.
- Vi10. C. Delcea, I. A. Bradea, L. A. Cotfas, and E. Scarlat, "Opinion influence in online social media environments — U grey system theory and agent-based modeling approach," in 2017 International Conference on Grey Systems and Intelligent Services (GSIS), 2017, pp. 349–355.
- Vi11. Irina RAICU, Radu CONSTANTINESCU, Camelia DELCEA, **Liviu-Adrian COTFAS** - *AN ONTOLOGY-BASED FRAMEWORK FOR ROMANIAN BANKING LOAN DECISION SUPPORT*. In: Proceedings of the 16th International Conference on Conference on Informatics in Economy (IE 2017), pp. 277-283, Bucharest University of Economic Studies Press, ISSN 2284-7472
- Vi12. **Liviu-Adrian COTFAS**, Camelia DELCEA, Ioan ROXIN - *GREY SENTIMENT ANALYSIS USING MULTIPLE LEXICONS*. In: Proceedings of the 15th International Conference on Conference on Informatics in Economy (IE 2016). pp. 428–433. Bucharest University of Economic Studies Press, Cluj-Napoca, Romania (2016), Link: http://www.conferenceie.ase.ro/wp-content/uploads/2016/05/IE2016_FinalProgram.pdf
- Vi13. Ioan ROXIN, **Liviu-Adrian COTFAS**, Horia DARASTEAN, Alexandra STAN: *AN INTERNET OF THINGS SOLUTION FOR RADIOACTIVITY ENVIRONMENTAL MONITORING*. In: Proceedings of the 15th International Conference on Informatics in Economy (IE 2016). pp. 38–44. Bucharest University of Economic Studies Press, Cluj-Napoca, Romania (2016), Link: http://www.conferenceie.ase.ro/wp-content/uploads/2016/05/IE2016_FinalProgram.pdf
- Vi14. **Liviu-Adrian COTFAS**, Antonin Segault, Federico Tajariol, Ioan Roxin - *A SEMANTIC MOBILE WEB APPLICATION FOR RADIATION SAFETY IN CONTAMINATED AREAS*, Proceedings of the IE 2015 International Conference, 30 April – 03 May 2015, Bucharest, Romania, 2015, pp. 607-612, ISSN: 2284-7472, ISSN-L: 2247-1480, 2015;
- Vi15. Camelia DELCEA, Ioana BRADEA, **Liviu-Adrian COTFAS**, Emil SCARLAT, *Healthcare Risks Incidence on Patients Wellbeing*, 5th International Conference on Grey Systems and Intelligent Services – IEEE GSIS, 18-20 August 2015, Leicester, United Kingdom, pp. 203-207, Link: <http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=7301855>;
- Vi16. Bogdan Iancu, **Liviu-Adrian COTFAS**, *DBPedia VS WikiData - A comparison from an e-learning perspective*. In: 13th International Conference on Informatics in Economy, Education, Research & Business Technologies (2014).
- Vi17. **Liviu-Adrian COTFAS**, Ioan ROXIN - *Alternate reality game for learning*, 12th International Conference on Informatics in Economy, Education, Research & Business Technologies, pp. 121-125, 2013.

- Vi18. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ioana BRADEA, Emil SCARLAT, Virginia MARACINE, *KRI and Firms' Performance – a Grey Theory Approach*, IEEE GSIS Conference, Macau, China, pp. 260-264, 2013, ISBN 978-1-4673-5248-2; <http://dx.doi.org/10.1109/GSIS.2013.6714785>
- Vi19. Virginia MARACINE, Camelia DELCEA, Ioana BRADEA, Emil SCARLAT, **Liviu-Adrian COTFAS**, *Banking sector Risks Identification via GRA*, IEEE GSIS Conference, Macau, China, pp. 11-15, 2013, ISBN 978-1-4673-5248-2; <http://dx.doi.org/10.1109/GSIS.2013.6714729>
- Vi20. **Liviu-Adrian COTFAS** - *A quantum mechanical model for the relationship between stock price and stock ownership*, APPLICATIONS OF MATHEMATICS IN ENGINEERING AND ECONOMICS (AMEE '12), pp. 37-44, 2012, (indexată ISI Web of Science), ISBN 978-0-7354-1111-1.
- Vi21. **Liviu-Adrian COTFAS** - *Multi-Objective Itinerary Recommender System*, 10th International Conference on Informatics in Economy, Bucharest, 2011, ISSN 2247-1480.
- Vi22. Andreea DIOȘTEANU, **Liviu-Adrian COTFAS**, Ștefan DUMITRESCU - *Natural Language Processing Applied in Itinerary Recommender Systems*, 10th International Conference on Applied Computer and Applied Computational Science, Venice, pp. 223-228, 2011, ISBN 978-960-474-281-3.
- Vi23. Alexandru SMEUREANU, Ștefan DUMITRESCU, **Liviu-Adrian COTFAS**, Andreea DIOȘTEANU - *Metropolitan fiber optical network planning model based on self-organizing neural networks*, 10th International Conference on Applied Computer and Applied Computational Science, Venice, pp. 223-228, 2011, ISBN 978-960-474-281-3.
- Vi24. **Liviu-Adrian COTFAS**, Andreea DIOȘTEANU, Ion SMEUREANU - *Fractal web service composition framework*, 8th International Conference on Communications, Bucharest: IEEE, pp. 405-408, 2010, (indexată IEEE), ISBN 978-1-4244-6360-2.
- Vi25. **Liviu-Adrian COTFAS**, Andreea DIOȘTEANU, Ion SMEUREANU - *Agent-based Collaborative Manufacturing*, The 32nd International Conference on Information Technology Interfaces, L.-S. Vesna, J. Iva, and B. Zoran, eds., Dubrovnik: University of Zagreb, pp. 163-168, 2010, (indexată IEEE), ISBN 978-1-4244-5732-8.
- Vi26. Andreea DIOȘTEANU, **Liviu-Adrian COTFAS**, Alexandru SMEUREANU, Ștefan DUMITRESCU - *Multi-agents and GIS framework for collaborative supply chain management applications*, 9th RoEduNet International Conference, IEEE, Cluj-Napoca, p. 157-162, 2010, ISBN 978-1-4244-7335-9. (indexată ISI Web of Science și IEEE)
- Vi27. Ștefan DUMITRESCU, Alexandru SMEUREANU, Andreea DIOȘTEANU, **Liviu-Adrian COTFAS** - *Adaptable Network Management System using GIS and network ontology*, 9th RoEduNet International Conference, IEEE, Cluj-Napoca, p. 310-315, 2010, ISBN 978-1-4244-7335-9. (indexată ISI Web of Science și IEEE)
- Vi28. **Liviu-Adrian COTFAS** - *A Genetic Algorithm and GIS based solution for public transport networks*, 9th International Conference on Informatics in Economy, Bucharest, Romania: ASE Printing House, Bucharest, pp. 466-471, 2009, ISBN 978-606-505-178-2.
- Vi29. **Liviu-Adrian COTFAS** - *Advanced personalization of location based services*, Proceedings of the 4th International Conference on Knowledge Management: Projects, Systems and Technologies, T. Pleșanu and L. Kraft, eds., Bucharest: "Carol I" National Defence University, Bucharest, pp. 31-34, 2009, ISBN 978-973-663-783-4.
- Vi30. **Liviu-Adrian COTFAS** - *Aplicații ale Sistemelor Informatice Geografice în Publicitate Utilizând Virtual Earth și SQL Server 2008*, Simpozionul Internațional al Tinerilor Cercetători, Chișinău: ASEM, pp. 414-416, 2009, ISBN 978-9975-75-472-9.

Articles presented in national conferences and published in conference proceedings

- Vn1. **Liviu-Adrian COTFAS**, Andreea DIOȘTEANU - *Personalizarea serviciilor bazate pe locație utilizând algoritmi genetici și agenți inteligenți*, A 7-a Conferința Națională de Interacțiune Om-Calculator, Bucharest, pp. 101-104, 2010, ISSN 1843-4460.
- Vn2. **Liviu-Adrian COTFAS** - *A Service Oriented Architecture for Public Transport Optimization*, *Journal of Doctoral Research in Economics*, vol. 1, pp. 40-45, 2009, ISSN 2066-611X.

Books

- Cb1. **Liviu-Adrian COTFAS**, Camelia DELCEA, *Tourism Itinerary Recommender Systems* - In the age of personalization and crowdsourcing, Editura Universitara, editură recunoscută CNCS, p. 152, p. 152, 2017, ISBN 978-606-28-0549-4
- Cb2. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ioana-Alexandra BRADEA, *Analiza impactului rețelelor sociale online asupra agenților economici*, Editura Universitara, editură recunoscută CNCS, p. 172, p. 172, 2017, ISBN 978-606-28-0589-0
- Cb3. Sifeng LIU, Camelia DELCEA, Emil SCARLAT, **Liviu-Adrian COTFAS**, *Sisteme gri în economie - Modele, incidență și aplicații*, ASE Printing house, editură recunoscută CNCS, p. 191, p. 191, 2015, ISBN 978-606-505-815-6

Book Chapters

- D1. C. Delcea, L.-A. Cotfas, R. Paun, "Airplane Boarding Strategies Using Agent-Based Modeling and Grey Analysis," in *Computational Collective Intelligence*, 2018, pp. 329–339.
- D2. C. Delcea, L.-A. Cotfas, R. Paun, "Agent-Based Optimization of the Emergency Exits and Desks Placement in Classrooms," in *Computational Collective Intelligence*, 2018, pp. 340–348.
- D3. **Liviu-Adrian COTFAS**, Camelia DELCEA, Antonin SEGAULT, Ioan ROXIN, *Semantic Web-based Social Media Analysis*, *Transactions on Computational Collective Intelligence*, XXII, , Springer Berlin Heidelberg, Berlin, Heidelberg, editură recunoscută CNCS, 2016, pp. 147–166, pagini volum: 219, pagini candidat: 20, isbn: 978-3-662-49618-3, doi: 10.1007/978-3-662-49619-0_8, Link: http://link.springer.com/chapter/10.1007/978-3-662-49619-0_8
- D4. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ramona PĂUN, Virginia MARACINE, Emil SCARLAT, *A Grey Approach to Online Social Network Analysis*, *Transactions on Computational Collective Intelligence*, XXII, Springer Berlin Heidelberg, Berlin, Heidelberg,

editură recunoscută CNCS, 2016, pp. 60–79, pagini volum: 219, pagini candidat: 20, isbn: 978-3-662-49618-3, doi: 10.1007/978-3-662-49619-0_4, Link: http://link.springer.com/chapter/10.1007/978-3-662-49619-0_4

- D5. **Liviu-Adrian COTFAS**, Camelia DELCEA, Ioan ROXIN, Ramona PĂUN, *Twitter Ontology-Driven Sentiment Analysis*, ACIIDS 2015 (7th Asian Conference on Intelligent Information and Database Systems), 23-25 March, Bali, Indonesia, Springer Series Studies in Computational Intelligence, book: *New Trends in Intelligent Information and Database Systems*, Springer, editură recunoscută CNCS, 2015, pp. 131-139, pagini volum: 380, pagini candidat: 9, isbn: 978-3-319-16210-2, doi: 10.1007/978-3-319-16211-9_14, Link: http://link.springer.com/chapter/10.1007%2F978-3-319-16211-9_14#page-1;
- D6. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ramona PĂUN, *Grey Social Networks - a Facebook Case Study*, Published in Computational Collective Intelligence Technologies and Applications, Springer LNCS/LNAI 8733, Lecture Notes in Computer Science, ICCCI Conference, 24-26 September 2014, Seoul, Korea, Springer, editură recunoscută CNCS, 2014, pp. 125-134, pagini volum: 702, pagini candidat: 10, ISBN 978-3-319-11288-6, ISSN: 0302-9743, doi: 10.1007/978-3-319-11289-3_13, Link: http://link.springer.com/chapter/10.1007/978-3-319-11289-3_13;
- D7. Camelia DELCEA, **Liviu-Adrian COTFAS**, Ramona PĂUN, *Online Social Networks' Users - a Twitter Approach*, Published in Computational Collective Intelligence Technologies and Applications, Springer LNCS/LNAI 8733, Lecture Notes in Computer Science, Understanding, ICCCI Conference, 24-26 September 2014, Seoul, Korea, pringer, editură recunoscută CNCS, 2014, pp. 145-153, pagini volum: 702, pagini candidat: 9, ISBN 978-3-319-11288-6, ISSN: 0302-9743, Link: http://link.springer.com/chapter/10.1007%2F978-3-319-11289-3_15;

PhD Thesis

- T1. **Liviu-Adrian COTFAS**, *Arhitecturi Distribuite pentru Sisteme Informatice Geografice Colaborative*, Academia de Studii Economice din București, pg. 183, 2011.