



Curriculum Vitae

INFORMAȚII PERSONALE



Toma Andrei



Sexul Masculin | Data nașterii | Naționalitatea română

LOCUL DE MUNCA
PENTRU CARE SE
CANDIDEAZĂ

Conferențiar în cadrul Departamentului de Informatică și Cibernetică Economică al Academiei de Studii Economice, poziția 60 din statul de funcții

EXPERIENȚA
PROFESIONALĂ

31.12.2017 - prezent

Director tehnic

Cyberllence Inovatie SRL, București, România

<https://cyberllence.com/>

- Implementarea prototipului sistemului de inteligență adaptivă nextlab.tech
- Definirea proceselor de implementare software
- Coordonarea echipei de dezvoltare software

Domeniu: Tehnologii educaționale, dezvoltare software

01.01.2014 - 01.06.2014

Co-fondator

TheWebMiner SRL, Pitești, România

<https://thewebminer.com>

- Coordonarea activității de cercetare/dezvoltare software a companiei
- Proiectarea și implementarea de sisteme de crawling scalabile

Domeniu: Extragere de date

31.05.2008 - 31.01.2009

Manager de cercetare

Dante international SRL, București, România

<https://emag.ro>

- Crearea și implementarea de algoritmi de inteligență artificială pentru sisteme de recomandare

Domeniu: Comerț electronic

31.01.2008 - prezent

Preparator universitar, Asistent universitar/Lector universitar

Academia de Studii Economice, București, România

<https://ase.ro>

- Crearea și predarea cursurilor: IT&C Security Laws and Regulations, Database Security, Modele de dezvoltare a aplicațiilor de întreprindere, E-Business Colaborativ, Web Technologies, Tehnologii web, Web mining și analiza datelor
- Crearea și predarea seminariilor: IT&C Security Laws and Regulations, Database Security, Afaceri electronice, Tehnologii ale afacerilor electronice, Rețele de calculatoare, Sisteme de operare, Bazele tehnologiei informației, Tehnologii web, Web Technologies, IT&C Security Laws and Regulations, Database Security, Modele de dezvoltare a aplicațiilor de întreprindere, E-Business Colaborativ, Web mining și analiza datelor, Inteligență artificială

Domeniu: Educație

EDUCAȚIE ȘI FORMARE

30.09.2005-30.09.2010	Doctorat în economie (subdomeniul Cibernetică și Statistică Economică)	EQF8
	Academia de Studii Economice, București, România	
30.09.2001-30.06.2005	▪ Scrieți lista principalelor materii studiate și abilitățile acumulate Licență în drept	EQF6
	Facultatea de Drept, Universitatea din București, România	
30.09.2000-31.03.2005	▪ Scrieți lista principalelor materii studiate și abilitățile acumulate Licență în economie	EQF6
	Facultatea de Cibernetică, Statistică și Informatică Economică, specializarea Informatică Economică Academia de Studii Economice, București, România	
	▪ Scrieți lista principalelor materii studiate și abilitățile acumulate	

COMPETENTE PERSONALE

Limba(i) maternă(e) română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleză	C2	C2	C2	C2	C2
	Cambridge Advanced English				
Franceză	B1	B2	B1	B1	B1
Spaniolă	A2	A2	A2	A2	A2

Competențe de comunicare	• Comunicare științifică dobândită prin participarea la un număr mare de conferințe internaționale • Comunicare tehnică dobândită prin realizarea de specificații și manuale de utilizare
Competențe organizaționale/manageriale	• Coordonarea de echipe de analiză și dezvoltare software dobândită prin participarea la proiecte software • Coordonarea de echipe de realizare de conținut educațional dobândită prin proiectarea și construcția de cursuri/seminarii

Competență digitală

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
C2	C2	C2	C2	C2

Alte competențe informatice

- Analiză și proiectare software
- Implementare de arhitecturi software
- Dezvoltare software

Alte competențe

- Design educațional

INFORMATII SUPLIMENTARE

Publicații

- **Ri1** CLIM A., **TOMA Andrei**, Zota, R. D., CONSTANTINESCU, R. (2022). *“The Need for Cybersecurity in Industrial Revolution and Smart Cities”*. Sensors, 23(1), 120. ISSN: 1424-8220, <https://doi.org/10.3390/s23010120> factor de impact 0.976
- **Ri2** PANTELIMON, F.-V., BOLOGA R., **TOMA Andrei**, POSEDARU B.-S. „*The Evolution of AI-Driven Educational Systems during the COVID-19 Pandemic*”. Sustainability 2021, 13, 13501. <https://doi.org/10.3390/su132313501>, ISSN: 2071-1050, WOS:000734658900001, factor de impact 0.879
- **Ri3** POSEDARU B.-S., BOLOGA R., **TOMA Andrei**, PANTELIMON F.-V., Posedaru B.-S. „*The Influence of Covid-19 Pandemic on Online Retail Prices*”, Economic Computation and Economic Cybernetics Studies and Research, Issue 1/2022; Vol. 56, ISSN 1842-3264, WOS:000777438800018, AIS 0.132, P = 0.7392
- **Ri4 Andrei TOMA**, Radu CONSTANTINESCU, Floarea NASTASE – *“Developing a Transaction Engine for Mobile Payment”*, Economy Informatics, nr 1/2011, pp. 72-79, ISSN 1582-7941, CNCSIS B+, Indexed in DOAJ, Copernicus, EBSCO, Google Scholar, Cabell, Ulrich
- **Ri5 Andrei TOMA**, *“Consensus Moderation System”*, Informatică economică, Vol. 15 No. 3/2011, pag. 153-159, ISSN 1453-1305, CNCSIS B+, Indexed in DOAJ, Copernicus, EBSCO, Google Scholar, Cabell, Ulrich
- **Ri6 Andrei TOMA** – *“An Approach Toward Open Collaborative Government”*, Open Source Science Journal, Vol. 2, No. 2, 2010, pag. 145 - 155, ISSN 2066-740X, Indexed in DOAJ, INSPEC, Copernicus, EBSCO, Google Scholar
- **Ri7 Andrei TOMA** – *“Concept for a Collaborative Moderation System”*, Journal of Applied Collaborative Systems, nr.2, 2010, pag. 102 - 107, ISSN 2066-7450, Indexed in DOAJ, INSPEC, Copernicus, EBSCO, Google Scholar
- **Ri8 Andrei TOMA**, Radu CONSTANTINESCU, Floarea NASTASE, *“Recommendation system based on the clustering of frequent sets”* - WSEAS Transactions On Information Science And Applications, Volume 6, 2009, ISSN 1790-0832, pg. 715-724, ISI
- **Ri9** Radu CONSTANTINESCU, **Andrei TOMA** – *“A Closer Look to the V-Model Approach for Role Engineering”*, WSEAS Transactions On Computers, Volume 8, 2009, pag. 1631-1640, ISSN 1109-2750, ISI
- **Ri10** Emanuil REDNIC, **Andrei TOMA** – *“Security Management in a Multimedia System”*, Journal of Applied Quantitative Methods, vol. 4, nr. 2, 2009, pag. 237-247, ISSN 1842-4562, CNCSIS B+
- **Ri11 Andrei TOMA** – *“Collaborative Search Engine Extension”*, Journal of Applied Collaborative Systems, nr.1, 2009, pag. 41-46, ISSN 2066-7450, Indexed in DOAJ, INSPEC, Copernicus, EBSCO, Google Scholar
- **Ri12 Andrei TOMA**, Emanuil REDNIC – *“Implementing a Copyright Management System”*, Revista Informatica Economica nr 1/2009, pag. 108-116, ISSN1453-1305, CNCSIS B+
- **Ri13** Emanuil REDNIC, **Andrei TOMA** – *“Multimedia Flavor in Directory Service Environment”*, Informatica Economica nr 3/2009, pag. 59-66, ISSN1453-1305, CNCSIS B+
- **Ri14** Emanuil REDNIC, **Andrei TOMA** – *“Simple Skin Recognition with Oracle Intermedia”*, Bodybuilding Science Journal, vol. 2, no. 3, 2010, pag. 108-116, ISSN 2066-8007, Indexed in DOAJ, Copernicus, EBSCO, Google Scholar, Cabell, Ulrich
- **Rn15 Andrei TOMA**, Gabriel IOAN – *“The Degree of Software Licenses Usage in Schools, High-Schools and Universities”*, Journal of Applied Quantitative Methods, vol. 1, nr. 1, 2006, pg. 51-57, ISSN 1842-4562, indexat DOAJ, CNCSIS B+

Proiecte

- Platforma software cu inteligență artificială pentru concursul de robotica Nextlab.tech. Beneficiar: Asociația "Clubul Informaticii Economice - CyberKnowledge Club", August 2019-prezent - coordonator tehnic
- "Modelarea empirică și dezvoltarea experimentală a instrumentelor asociate tehnologiilor emergente din domeniul rețelelor sociale online", CDI – 2017, Contract de finanțare nr 86/PCCDI/2018 - membru specialist
- SIMCE - „Sistem colaborativ integrat bazat pe cunoștințe pentru îmbunătățirea managementului universităților economice, în contextul noului Membru Posdru 2011-2012 Cadru Național al Calificărilor din Învățământul Superior”, beneficiar Academia de Studii Economice București, contract nr. POSDRU/86/1.2/S/58160 - membru specialist
- SERAFIMO – “Platforma integrată pentru tranzacții și servicii electronice financiar bancare realizate folosind Membru Parteneriat 2009-2011 tehnologia disponibilă pe dispozitivele mobile cu răspundere largă”, contract PN II nr. 3039/01.10.2008, beneficiar CNMP, consorțiu între UPB-ASE-UTI-CERTSIGN - membru specialist
- Pro – “*Declarations processor for the optimization of administrative document flows*” - Pro, asociația e-Caesar (consorțiu între UPB-ASE-Fraunhofer Institute) nr. 765 /28.04.2010, beneficiar Fraunhofer Institute Berlin - membru specialist

Conferințe

- **Vi1** Claudiu VINȚE, **Andrei TOMA**, Alexandru BĂRBULESCU, „*Exposing JMS-Based Trading SOA Messaging API to JS Web Clients*” -, 18th International Conference on INFORMATICS in ECONOMY. Education, Research and Business Technologies Proceedings, București, 2019, DOI:10.12948/ie2019.02.06
- **Vi2** **A. TOMA**, „*Extracting location data and location description automatically*”, The 15th International Conference of Informatics in Economy Proceedings, Cluj-Napoca, 02 - 03 June 2016
- **Vi3** V. MOISĂ, **A. TOMA**, „*Web Technologies For A Learning Management System With Adaptive Course Navigation*” The 11th International Conference of Informatics in Economy” Proceedings, Bucharest, 25 - 28 April 2013, ISSN: 2247 –1480)
- **Vi4** **A. TOMA**, „*Software Architecture for a Consensus Moderation System*”, The 11th International Conference of Informatics in Economy” Proceedings pag. 523-527, Bucharest, 10-11 mai 2012, ISSN 2284-7472 ISSN-L 2247-1480
- **Vi5** Radu CONSTANTINESCU, **Andrei TOMA**, Floarea NASTASE, “*Architecturing a Financial Services Transaction Engine*”, W-SeDiS-S2: Service Based Applications, Tirana, 2011
- **Vi6** Mihai TANASE, Valentin CRISTEA, **Andrei TOMA**, Florin POP, Radu CONSTANTINESCU, “*SERAFIMO - integrated platform for financial transactions using common communication technologies available on the standard mobile phone*”, 18th International Conference on Control Systems and Computer Science Proceedings, Bucharest, 24-27 May, 2011,
- **Vi7** **A. TOMA**, Radu CONSTANTINESCU, Floarea NASTASE, “*Developing a Transaction Engine for Mobile Payment*”, The 10th International Conference of Informatics in Economy” Proceedings, Bucharest, 5-7 May, 2011, ISSN 2247-1480;
- **Vi8** **Andrei TOMA**, Radu CONSTANTINESCU, Razvan ZOTA, “*Enhancing Administrative Services through Document Models*”, KM-05 2010 „Knowledge Management: Projects, Systems and Technologies” Proceedings, Carol I National Defence University, Bucuresti, 12-13 November 2010, pag. 94 - 102, 2010, ISSN 2069-1920, Indexed by RePEc
- **Vi9** Emanuil REDNIC, **Andrei TOMA** – “*Security Management in a Multimedia System*” , The 9th International Conference of Informatics in Economy Proceedings, Bucharest, 7-8 May, 2009, pag. 850-855, 2009, ISBN 978-606-505-178-2
- **Vi10** Emanuil REDNIC, **Andrei TOMA** – “*Implementing Graphic Passwords in Directory Service Systems*” , 2nd International Conference on Security for Information Technology and Communication Proceedings, Bucharest, 19-20 November 2009, ISBN 978-606-505-283-3
- **Vi11** Radu CONSTANTINESCU, **Andrei TOMA**, Iuliana SCORTA, Floarea NASTASE, Razvan ZOTA, “*V-Model Approach for Role Engineering*” , 13th WSEAS International Conference on Computers Proceedings, Rhodes, Greece, 23-25 July 2009, pag. 148-152, 2009, ISBN 978-960-474-099-4, ISSN 1790-5109, ISI Proceedings
- **Vi12** **Andrei TOMA**, Radu CONSTANTINESCU, Floarea NASTASE – “*Recommendation System Based on the Clustering of Frequent Sets*” , 8th WSEAS AIKED 09 Proceedings, Cambridge, Anglia, 21-23 February 2009, pag. 343-347, 2009, ISBN 978-960-474-051-2, ISSN 1790-5109, ISI Proceedings
- **Vi13** **Andrei TOMA** – “*Copyright Management Information*” , volume of the 6th International young researcher’s symposium, pag. 334-345, ISBN 978-9975-75-415-6, April 2008
- **Vi14** I. DOROBĂȚ, **A. TOMA**, „*BLENDED LEARNING IMPLEMENTATION - A ROMANIAN HEI CASE*” Proceedings of the 11th International Scientific Conference "eLearning and Software for Education" Bucharest, April 23 - 24, 2015
- **Vi15** E REDNIC, **A TOMA**, A APOSTU „*Organize distributed work environments in a game-like fashion*” Recent Advances in Knowledge Engineering and Systems Science, 213-218
- Bursă ANIS pe domeniul “Securitate informatică” în anul 2018
- Premiul profesor E-Tare ANOSR în anul 2021

Distincții

- Ci1.1** Arghittu, Antonella, Ginevra Balletto, and Marco Dettori. "Smart City and Well-Being: Opinions by the Guest Editors." *Urban Science* 7.1 (2023): 28.
- Ci1.2** Santamaría, Pablo, et al. "Smart Contracts for Managing the Chain-of-Custody of Digital Evidence: A Practical Case of Study." *Smart Cities* 6.2 (2023): 709-727.
- Ci1.3** Antonella, Arghittu, Ginevra Balletto, and Dettori Marco. "Smart City and Well-Being: Opinions by the Guest Editors." *URBAN SCIENCE* (2023).
- Ci2.1** Soliman, Mohammad, et al. "Exploring the Major Trends and Emerging Themes of Artificial Intelligence in the Scientific Leading Journals amidst the COVID-19 Era." *Big Data and Cognitive Computing* 7.1 (2023): 12.
- Ci2.2** AlDhaen, Fatema. "The Use of Artificial Intelligence in Higher Education–Systematic Review." *COVID-19 Challenges to University Information Technology Governance* (2022): 269-285.
- Ci2.3** Abdellatif, Hussein, et al. "Teaching, Learning and Assessing Anatomy with Artificial Intelligence: The Road to a Better Future." *International Journal of Environmental Research and Public Health* 19.21 (2022): 14209.
- Ci2.4** Ahmad, Sayed Fayaz, et al. "Leading Edge or Bleeding Edge: Designing a Framework for the Adoption of AI Technology in an Educational Organization." *Sustainability* 15.8 (2023): 6540.
- Ci2.5** Lee, Donghwa, Hong-hyeon Kim, and Seok-Hyun Sung. "Development research on an AI English learning support system to facilitate learner-generated-context-based learning." *Educational technology research and development* (2022): 1-38.
- Ci2.6** Mallik, Sruti, and Ahana Gangopadhyay. "Proactive and Reactive Engagement of Artificial Intelligence Methods for Education: A Review." *arXiv preprint arXiv:2301.10231* (2023).
- Ci2.7** Atencio, Bernardo Clímaco Hermitaño, and Raúl Delgado Arenas. "Factores que afectan la participación activa de estudiantes universitarios en clases remotas en el contexto de la pandemia COVID-19: El caso de la UNE." *Apuntes Universitarios* 12.3 (2022): 465-479.
- Ci2.8** Taherdoost, Hamed, and Mitra Madanchian. "Employment of Technological-Based Approaches for Creative E-Learning; Teaching Management Information Systems." *Procedia Computer Science* 215 (2022): 802-808.
- Ci2.9** Diyer, Okacha, Naceur Achtaich, and Khalid Najib. "Assessment of Scientific Learning Skills Based on Artificial Intelligence." *2022 2nd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET)*. IEEE, 2022.
- Ci2.10** Rodrigues, Thales BSF, et al. "Towards Interpretability of Attention-Based Knowledge Tracing Models." *Anais do XXXIII Simpósio Brasileiro de Informática na Educação*. SBC, 2022.
- Ci2.11** BANSOD, PV. "This site helps young researchers to upload small scale research articles. The purpose of the articles are only academic to motivate researchers to further research. The articles are not peer reviewed. I have started interviews with great researchers of management, social sciences, Social works, Economics, psychology etc. I have also started showing data analysis techniques in these videos. To view these short videos, click on the following link and subscribe for future videos <https://www.youtube.com>"
- Ci3.1** Kanetkar, Salil, et al. "Web-based personalized hybrid book recommendation system." *2014 International Conference on Advances in Engineering & Technology Research (ICAETR-2014)*. IEEE, 2014.
- Ci3.2** Bundasak, Supaporn. "A healthy food recommendation system by combining clustering technology with the weighted slope one predictor." *2017 International Electrical Engineering Congress (iEECON)*. IEEE, 2017.
- Ci3.3** Chandran, T. Ravi, A. V. Reddy, and B. Janet. "A social spider optimization approach for clustering text documents." *2016 2nd International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB)*. IEEE, 2016.
- Ci3.4** Vora, Bhraantav, N. J. Patel, and N. N. Jani. "based product automated recommendation system in E-commerce using improved Frequent Pattern Mining and Artificial Intelligence." *International Journal Of Research In Electronics And Computer Engineering* 6.2 (2021): 1331-1336.
- Ci3.5** Shalita, Alon Michael, Sergey Pupyrev, and Igor Kabiljo. "Social signature." U.S. Patent No. 10,616,353. 7 Apr. 2020.
- Ci3.6** Parekh, Parth, et al. "Web based hybrid book recommender system using genetic algorithm." *International Research Journal of Engineering and Technology* 5.8 (2018): 1536-1539.
- Ci3.7** Walid Ghobar, Enio. "Un sistema de recomendación basado en perfiles generados por agrupamiento y asociaciones." (2018).
- Ci3.8** Yetgin, Zeki, and Furkan Gözükar. "New metrics for clustering of identical products over imperfect data." *Turkish Journal of Electrical Engineering and Computer Sciences* 23.4 (2015): 1195-1208.
- Ci3.9** Wu, J., et al. "Improvement of Recommendation List Effectiveness Using Familiarity." *NAUN International Journal of Systems Engineering, Applications and Development* 7.1 (2013): 22-32.
- Ci3.10** Mapkar, Saima, ASHA RANA, and Priyanka Patil Guide. *Personalized Book Recommendation with Hybrid approach*. ST. FRANCIS INSTITUTE OF TECHNOLOGY, 2018.

- Ci4.1** Ueda, Eduardo Takeo, and Wilson Vicente Ruggiero. "A systematic mapping on the role-permission relationship in role based access control models." *IEEE Latin America Transactions* 10.1 (2012): 1243-1250.
- Ci5.1** Semenchenko, Nataliia. "Economic Cybernetics: Development Paradigm and Global Modeling in the Modern World."
- Ci6.1** Taniar, David, et al. "Spatial network rnn queries in gis." *The Computer Journal* 54.4 (2011): 617-627.
- Ci6.2** Kalaivani, K. "An efficient watermarking scheme for medical data security with the aid of neural network." *Brazilian Archives of Biology and Technology* 59 (2017).
- Ci6.3** Kataria, Shaolin, et al. "IMAGE ENCRYPTION TECHNIQUES AND COMPARATIVE ANALYSIS." (2021).
- Ci6.4** HERTELIU, Emanuel Eduard. "Implementing the PKP Project in Case of a Romanian Open Acces Journal-Journal of Applied Quantitative Methods." *Open Source Science Journal* 1.2 (2009): 147-167.
- Ci7.1** Mohammed, Hind Rostom. "Random segmentation blocks algorithm for Gout Skin Detection and recognition." *i-Manager's Journal on Software Engineering* 5.1 (2010): 23.
- Ci8.1** Mazor, Joseph. "On environmental justice, Part II: non-absolute equal division of rights to the natural world." *Economics & Philosophy* (2022): 1-29.