



Activități și responsabilități principale	Institutul e-Austria Timisoara
Numele și adresa angajatorului	Bd. C. Coposu 4
Tipul activității sau sectorul de activitate	Cercetare (Inteligența Artificială) și managerial (Transfer tehnologic)
Perioada	<b>1980 - 1986</b>
Funcția sau postul ocupat	Analist programator
Activități și responsabilități principale	Programare
Numele și adresa angajatorului	Centrul de Calcul, Universitatea de Vest din Timisoara

## Educație și formare

Perioada	<b>1992 – 1996</b>
Calificarea / diploma obținută	Doctor
Disciplinele principale studiate / competențe profesionale dobândite	Informatica / Inteligența Artificială
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Babes-Bolyai Cluj Napoca
Nivelul în clasificarea națională sau internațională	
Perioada	<b>1975 – 1979</b>
Calificarea / diploma obținută	Diploma în informatică
Disciplinele principale studiate / competențe profesionale dobândite	Informatică
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea din Timisoara, Facultatea de Științe ale Naturii, secția Informatică
Nivelul în clasificarea națională sau internațională	

## Training

Oct. 1991 – Martie. 1992, Spec. Informatică Distribuția; Univ. Sophia Antipolis Nice

Aprilie 1992 – Septembrie 1992, Stagiul cercetare Sisteme Expert, Școala de Mine Paris – Sophia Antipolis Nice

Sept. 1985 – Iunie 1986, Studii postuniv. Baze de Date, Univ. Politehnica Timisoara

1982 – Specializare Minicalculoare, Centrul de Calcul Teritorial Timisoara

Burse de studii și de cercetare (burse TEMPUS; ale guvernelor roman, francez și austriac; Erasmus), respectiv, profesor / cercetător invitat la următoarele universități sau institute: Universitatea Sophia Antipolis Nice, Școala de Mine Paris – Sophia Antipolis, INRIA - Sophia Antipolis, Universitatea Johannes Kepler Linz, Universitatea din Szeged, Universitatea Paris 6, Universitatea din Sevilla, Universitatea din Tsukuba, Universitatea „La Sapienza” Roma, Universitatea de Stat Ternopil, Universitatea Națională Taras Shevchenko Kiev.

## Aptitudini și competențe personale

Rezultatele cercetării s-au concretizat prin peste 160 de lucrări științifice publicate în reviste de specialitate sau în volume ale conferințelor.

Director / membru în peste 80 de proiecte de cercetare (dintre care 2 în Franța, 6 în Austria, 4 cu Banca Mondială, 5 PHARE, 2 INFOSOC, un proiect FP5, 3 proiecte FP6, 7 proiecte FP7, 1 proiect CIP, 6 proiecte CEEX, 1 proiect INTAS, 2 proiecte bilaterale, 4 proiecte PNII, 1 proiect PNIII, 1 proiect ESA, 2 proiecte POSCCE, 4 proiecte COST, 1 proiect transfrontalier IPA, 4 proiecte H2020, 3 proiecte POC).

Director / expert în cinci proiecte cu finanțare din fonduri structurale (POSDRU).

Expert ARACIS. Expert național (CNFIS, CNCISIS, INFOSOC, CEEX, PNII, PNIII) și expert în cadrul programelor europene (INTAS, FP6, FP7, H2020, Marie-Curie). Experiență în evaluarea proiectelor europene de peste 15 ani.

Membru CNCISIS (2005-2010), membru CNATDCU (2005-2010; 2012). Membru CNCS (2015-2016).

Membru în consiliul Școlii doctorale de Matematică și Informatică de la Universitatea Babeș-Bolyai din Cluj-Napoca (din 2012).

**Membru Bord Informatics Europe (2020 – 2021, 2022 - 2023)**

**Membru Consiliu General CNATDCU (din 2020).**

**Membru Comisie Consultativă ARACIS (din 2021)**

Editor la trei reviste de specialitate și referent științific la peste 15 reviste de specialitate.

Membru PC la peste 150 de conferințe internaționale Organizare conferințe, workshop-uri, simpozioane: CSCS14 2003, CSCS17 2009, București; ACSys 2004 – 2020, Timișoara; SYNASC 1999 – SYNASC 2022, ISPCD 2006, Timișoara; Grid School, 2006 - 2008, Timișoara, BigDAT 2018.

(Co)editor al volumelor conferințelor: SYNASC 1999 – SYNASC 2022.

Limba(i) maternă(e)

**Romana**

Limba(i) străină(e) cunoscută(e)

**Engleza, Franceza**

Autoevaluare

Nivel european (\*)

**Limba**

**Limba**

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
E	avansat	E	avansat	E	mediu	E	mediu	E	Avansat
F	avansat	F	avansat	F	mediu	F	mediu	F	Mediu

(\*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

Competențe și abilități sociale

- Comunicare, lucrul în echipă.

Competențe și aptitudini organizatorice

- Competențe manageriale cu privire la: organizarea și coordonarea activității de cercetare / academice;  
- Competențe științifice cu privire la conducerea unor proiecte de cercetare, dezvoltare și transfer tehnologic;  
- Organizarea de evenimente științifice.

Competențe și aptitudini tehnice

În conexiune cu informatică.

Competențe și aptitudini de utilizare a calculatorului

Specialist

Permis(e) de conducere

Categoria B din 1985.

## Informații suplimentare

- Membru al asociațiilor profesionale: Matematics Romanian Society (din 1986), ARIA Romanian Association for Artificial Intelligence (din 2011), Association for Computing Machinery (ACM) (din 1995), Society for Industrial and Applied Mathematics (SIAM) (1995 - 2000), Computer Society (din 1996), IEEE (din 1999), Computational Intelligence (din 2004), IEEE Computational Intelligence Society (since 2004), Robotics and Automation Society (since 2010), Signal Processing Society (since 2014), EuroScience (din 2002), SIGART, ACM's Special Interest Group on Artificial Intelligence (since 2005), IEEE Information Theory Society (since 2019).

**ACM – senior member (din 2021)**

Premii: **Premiul Traian Lalescu pentru Matematica si Stintele Naturii (2017, Gala Excelentei Banatene);**

**Diploma Excelenta MEC - ANCS (2011)**

- Am contribuit la reforma invatamantului superior - aplicata la nivelul facultatii si universitatii (introducerea creditelor transferabile; aplicarea autonomiei universitare; realizarea infrastructurii la nivelul facultatii; organizarea activitatii de cercetare, imbunatatirea relatiilor internationale etc.). In calitate de director al Departamentului de Informatica am contribuit la dezvoltarea ciclurilor 2 si 3 si la crearea Laboratorului de Inteligenta Artificiala si Calcul Paralel (AIParLab) (1994) si a Centrului de Cercetare in Informatica (din 2001). Am facut parte din grupul de initiativa al proiectului cu finantare austriaca "Institutul e-Austria Timisoara". Am participat activ la nivelul MEN la crearea RoEduNet si am facut parte din grupul de lucru pentru stabilirea strategiei nationale RoGrid-NGI. La nivel regional am contribuit la stabilirea strategiei de inovare, in calitate de responsabil grup de IT&C. Am contribuit la crearea a 2 spin-off-uri si a unui start-up. Am facut parte din grupul de lucru pentru stabilirea strategiei nationale de cercetare 2014 – 2020 si a programului PN III.

**Anexe** | Lista lucrari; Lista proiecte

## Viorel Negru. List of selected papers

1	D. Pop, V. Negru, C. Sandru - Multi-agent architecture for Knowledge discovery, 8th International Workshop on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2006, September 26 - 29, Timisoara, extended and revised version published in IEEE Press, January 2007, ISBN 0-7695-2740-X, pp 217 - 223.	
2	C. Sandru, V. Negru - MATOPS - Managing problem solving tasks in a multi-agent environment, published in Annals of the University of Timisoara, Mathematical and Computer Science series, vol. 42, nr. 2, 2004, pp. 289 - 300.	
3	D. Zaharie, F. Zamfirache, V. Negru, D. Pop, H. Popa, Unsupervised Clustering Of Documents Using Evolutionary Algorithms, Proceedings of the International Conference on Knowledge Engineering, Principles and Techniques, KEPT2007 Cluj-Napoca (Romania), June 6-8, 2007, pp. 25-32	
4	H. Popa, I. Muscalagiu, D. M. Muscalagiu, V. Negru - Experimental analysis of the impact of the message management in the case of the ABT family, 9th International Workshop on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2007, September 26 - 29, Timisoara, extended and revised version published in IEEE Press, pp 260-266	
5	H. Popa, D. Pop, V. Negru, D. Zaharie - AgentDiscover: A multi agent system for Knowledge discovery from databases, 9th International Workshop on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2007, September 26 - 29, Timisoara, extended and revised version published in IEEE Press, pp 275-282	
6	Dana Petcu, Silviu Panica, Doina Bancu, Viorel Negru, Andrei Eckstein, Optical character recognition on a Grid infrastructure, Procs. 3rd International Conference on Automated Production of Cross Media Content for Multi-channel Distribution, AXMEDIS 2007, J. Delgado, K. Ng, P. Nesi, P. Bellini (eds.), IEEE Computer Society Press, Los Alamitos, ISBN 0-7695-3030-3, 2007 pp. 21-25	
7	D. Pop, F. Fortis, V. Negru, Applying ontologies for workflow modelling and execution for a virtual ISP, International Journal of Web and Grid Services, Inderscience Publishers, Volume 4, Issue 3, November 2008, ISSN:1741-1106, pp 330-341	
8	H. Popa, V. Negru, D. Pop, I. Muscalagiu - DL-AgentRecom - A multi-agent based recommendation system for scientific documents, 9th International Workshop on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2008, September 26 - 29, Timisoara, extended and revised version published in IEEE Press, ISBN 978-0-7695-3523-4, February 2009, pp. 332 - 328	
9	C. Sandru, V. Negru - Extending the Unified Problem-solving Method Development Language. In Proceedings of the 1st Romanian-Hungarian Joint Symposium on Applied Computational Intelligence (SACI 2004), Timisoara, Romania, May, 25-26 2004	
10	Ciprian Jichici, Viorel Negru, Daniel Pop, Daniela Zaharie, Horia Popa, A Predictive Model for Learning Objects Quality Evaluation, ROSYSC 2004, Iasi,, proceedings pp 152 - 164; revised published in Scientific Annals of the "Alexandru Ioan Cuza" University of Iasi Computer Science Section, Tome XIV, 2004	
11	Calin Sandru, Viorel Negru, Validating UPML Concepts in a Multi-Agent Architecture, Schedae Informaticae, Vol. 15, December 2006, ISSN 0860-0295, pp 109 - 126.	
12	D. Pop, F. Fortis, V. Negru, Ontology-based Modeling and Execution of Workflows for Virtual ISP, Workshop on Web/Grid Information and Services Discovery (WGISD 2008), 2nd International Conference on Complex, Intelligent and Software Intensive Systems (CICIS-2008), Barcelona (Spain), March 2008, pp 1007 - 1011.	
13	O. Aritoni, V. Negru, Sensors data - stream processing middleware based on multi-agent model, Scalable Computing: Practice and Experience Volume 11, Number 1, pp. 19 - 32, 2010, <a href="http://www.scpe.org">http://www.scpe.org</a> , ISSN 1895-1767	
14	L.O. Mafteiu-Scail, V. Negru, D. Zaharie, O. Aritoni, Average bandwidth reduction in sparse matrices using hybrid heuristics, Studia Universitatis Babes-Bolyai Informatica journal, volume (LVI) 2011, September, issue 3, pp 97 - 102	
15	Zaharie, D.; Perian, L.; Negru, V.; Zamfirache, F., Evolutionary pruning of non-nested generalized exemplars, 6th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI), 2011, Pbs: Institute of Electrical and Electronics Engineers ( IEEE ) ISBN: 978-1-4244-9108-7, pp 57 - 62	

16	D. Zaharie, L. Perian and V. Negru, A view inside the classification with non-nested generalized exemplars, IADIS European Conference Data Mining 2011, Rome, July 24 - 26, 2011, ISBN: 978-972-8939-53-3, pp 19 - 26	
17	V. I. Munteanu, C. Mindruta, V. Negru, C. Sandru, Multi-agent architecture for solving nonlinear equations systems in semantic services environment, Proceedings of the Federated Conference on Computer Science and Information Systems, FedCSIS, Szczecin, Poland, September 18 - 21, 2011, ISBN 978-83-60810-22-4, pp. 981-984	
18	O. Artoni, V. Negru, A Methodology for Household Appliances Behaviour Recognition in AmI Systems, ICAS 2011 : The Seventh International Conference on Autonomic and Autonomous Systems, Venice, May 22 - 27, 2011, IARIA, ISBN: 978-1-61208-134-2, pp 175 - 178	
19	O. Artoni, V. Negru, A Multi-Agent Recommendation System for Energy Efficiency Improvement, J.J. Yonazi et al. (Eds.): ICeND 2011, Communications in Computer and Information Science, CCIS 171, ISSN: 1865-0929, Springer-Verlag, 2011, pp. 156-170	
20	Ovidiu Artoni and Viorel Negru, Human behavior analysis in ubiquitous environments for energy efficiency improvement, AmI 11 - International Joint Conference on Ambient Intelligence, Amsterdam, November 16 - 18, 2011, D. Keyson et al. (Eds.): AmI 2011, LNCS 7040, pp. 222-227, 2011	
21	O. Artoni, V. Negru, Multi-threading system for human behavior simulation based on constraints propagation, 15th International Conference on System Theory, Control and Computing: ICSTCC-2011, Special Session on Software Technologies for Intelligent Collaborative Systems: STIX, October 14-16, Sinaia, Romania	
22	Monica Tirea, Ioan Tandau and Viorel Negru. Multi-Agent Stock Trading Algorithm Model, 13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2011, September 26 - 29, Timisoara, extended and revised version published in IEEE Computer Society Press, ISBN 978-0-7695-4630-8, pp 365-372	
23	Monica Tirea, Ioan Tandau, Viorel Negru: Multi-Agent Stock Trading Algorithm - A Neural Network Approach. KES 2012: 706-715	
24	Iuhasz Gabriel and Negru Viorel. Neuro-evolution in Zero-Sum Perfect Information Games and RTS micromanagement, 13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2011, September 26 - 29, Timisoara, extended and revised version published in Mathematics and Computer Science Annals, West University of Timisoara	
25	Salvatore Venticinque, Viorel Negru, Victor Ion Munteanu, Calin Sandru, Rocco Aversa, Massimiliano Rak: Negotiation Policies for Provisioning of Cloud Resources. ICAART (2) 2012: 347-350	
26	Teodor-Florin Fortis, Victor Ion Munteanu, Viorel Negru: Towards an Ontology for Cloud Services. CISIS 2012: 787-792	
27	Iuhasz Gabriel, Viorel Negru, Daniela Zaharie: Neuroevolution based multi-agent system for micromanagement in real-time strategy games. BCI 2012: 32-39	
28	Monica Tirea, Ioan Tandau, Viorel Negru: Stock Market Multi-Agent Recommendation System Based on the Elliott Wave Principle. CD-ARES 2012: 332-346	
29	Adrian Copie, Teodor-Florin Fortis, Victor Ion Munteanu, Viorel Negru: Datastores supporting Services Lifecycle in the framework of Cloud Governance. Scalable Computing: Practice and Experience 13(3) (2012)	
30	Ionel Muscalagiu, Horia Emil Popa, Viorel Negru: The effect of temporary links in randomly generated networks of constraints. Scalable Computing: Practice and Experience 13(1) (2012)	
31	Cristina Mindruta, Victor Ion Munteanu, Viorel Negru, Calin Sandru: Multi-Agent Architecture in Semantic Services Environment. Scalable Computing: Practice and Experience 13(1) (2012)	
32	Teodor-Florin Fortis, Victor Ion Munteanu, Viorel Negru: Steps towards cloud governance. a survey. ITI 2012: 29-34	
33	Ciprian-Petrisor Pungila, Viorel Negru: A Highly-Efficient Memory-Compression Approach for GPU-Accelerated Virus Signature Matching. ISC 2012: 354-369	
34	Teodor-Florin Fortis, Victor Ion Munteanu, Viorel Negru: Towards a Service Friendly Cloud Ecosystem. ISPDC 2012: 172-179	
35	Adrian Copie, Teodor-Florin Fortis, Victor Ion Munteanu, Viorel Negru: Service Datastores in Cloud Governance. ISPA 2012: 473-478	
36	Victor Ion Munteanu, Teodor-Florin Fortis, Viorel Negru: An Evolutionary Approach for SLA-based Cloud Resource Provisioning. AINA 2013: 506-513	

37	<u>Gabriel Iuhasz, Victor Ion Munteanu, Viorel Negru: Framework for Enabling Scalable Learning Game AI. ENASE 2013: 189-196</u>
38	<u>Daniela Zaharie, Lavinia Moatar-Moleriu, Viorel Negru: Particularities of evolutionary parameter estimation in multi-stage compartmental models of thymocyte dynamics. GECCO 2013: 303-310</u>
39	<u>Ionel Muscalagiu, Horia Emil Popa, Viorel Negru: The Impact of the "Nogood Processor" Technique in Scale-Free Networks. IDC 2013: 163-173</u>
40	<u>Gabriel Iuhasz, Victor Ion Munteanu, Viorel Negru: A Survey of Adaptive Game AI: Considerations for Cloud Deployment. IDC 2013: 309-315</u>
41	<u>Monica Tirea, Viorel Negru: Stock market analysis - Strongest performing stocks influence on an evolutionary market. ITI 2013: 263-270 Gabriel Iuhasz, Victor Ion Munteanu, Viorel Negru: Data mining considerations for knowledge acquisition in real time strategy games. SISY 2013: 331-336</u>
42	<u>Ciprian-Petrisor Pungila, Viorel Negru: Real-Time Polymorphic Aho-Corasick Automata for Heterogeneous Malicious Code Detection. SOCO-CISIS-ICEUTE 2013: 439-448</u>
43	<u>Monica Tirea, Viorel Negru: Investment portfolio optimization based on risk and trust management. SISY 2013: 369-374</u>
44	<u>Monica Tirea, Viorel Negru: Classifying and quantifying certain phenomena effect. SISY 2013: 363-368</u>
45	<u>Gabriel Iuhasz, Victor Ion Munteanu, Viorel Negru: Data mining considerations for knowledge acquisition in real time strategy games. SISY 2013: 331-336</u>
46	<u>Ionel Muscalagiu, Horia Emil Popa, Manuela Panoiu, Viorel Negru: Multi-agent Systems Applied in the Modelling and Simulation of the Protein Folding Problem Using Distributed Constraints. MATES 2013: 346-360</u>
47	<u>I. Gabriel, Viorel Negru, Daniela Zaharie: Neuroevolution Based Multi-Agent System with Ontology Based Template Creation for Micromanagement in Real-Time Strategy Games. ITC 43(1): 98-109 (2014) (Impact factor 0,67)</u>
48	<u>Ciprian-Petrisor Pungila, Mario Reja, Viorel Negru: Efficient parallel automata construction for hybrid resource-impelled data-matching. Future Generation Comp. Syst. 36: 31-41 (2014) (Impact Factor: 2.639)</u>
49	<u>Gabriel Iuhasz, Victor Ion Munteanu, Viorel Negru, Chapter: A Survey of Adaptive Game AI: Considerations for Cloud Deployment, Intelligent Distributed Computing VII, Edited by Zavoral, Filip and Jung, Jason J. and Badica, Costin, Studies in Computational Intelligence Volume 511, 2014: pages 309-315; Springer Publishing., ISBN: 9783319015705</u>
50	<u>Ionel Muscalagiu, Horia Emil Popa, Viorel Negru: Enhancing DisCSP-Netlogo from Simulation to Real-execution of Agents in Distributed Constraints. KES 2014, Procedia Computer Science, Volume 35, 2014, Pages 261-270</u>
51	<u>Ciprian Pungila, Viorel Negru, Chapter: Real-Time Polymorphic Aho-Corasick Automata for Heterogeneous Malicious Code Detection, International Joint Conference SOCO'13-CISIS'13-ICEUTE'13, Edited by Herrero, Álvaro and Baruque, Bruno and Klett, Fanny and Abraham, Ajith and Snášel, Václav and Carvalho, André C.P.L.F. and Bringas, Pablo García and Zelinka, Ivan and Quintián, Héctor and Corchado, Emilio, Advances in Intelligent Systems and Computing Volume 239, 2014: pages 439-448; Springer International Publishing., ISBN: 9783319018539</u>
52	<u>Ciprian Pungila, Viorel Negru, Chapter: Towards Building Efficient Malware Detection Engines Using Hybrid CPU/GPU-Accelerated Approaches, (pages 237-264), Eds. Ruiz-Martinez, Antonio, Rafael Marin-Lopez, and Fernando Pereniguez-Garcia. "Architectures and Protocols for Secure Information Technology Infrastructures." IGI Global, 2014, doi:10.4018/978-1-4666-4514-1, SBN13: 9781466645141, ISBN10: 1466645148</u>
53	<u>Ionel Muscalagiu, Horia Emil Popa, Viorel Negru: Improving the Performances of Asynchronous Search Algorithms in Scale-Free Networks Using the Nogood Processor Technique. Computing and Informatics 34(1): 254-274 (2015)</u>
54	<u>Teodor-Florin Fortis, Victor Ion Munteanu, Viorel Negru: A taxonomic view of cloud computing services. IJCSE 11(1): 17-28 (2015)</u>
55	<u>Viorel Negru, Gheorghe Grigoras, Daniela Danciulescu: Natural Language Agreement in the Generation Mechanism based on Stratified Graphs. BCI 2015: 36:1-36:8</u>
56	<u>Ciprian Pungila, Viorel Negru: Real-Time Hybrid Compression of Pattern Matching Automata for Heterogeneous Signature-Based Intrusion Detection. CISIS-ICEUTE 2015: 65-74</u>
57	<u>Ciprian Pungila, Bogdan Manate, Viorel Negru: A Heterogeneous Fault-Resilient Architecture for Mining Anomalous Activity Patterns in Smart Homes. CISIS-ICEUTE 2015: 133-143</u>

58	<u>Monica Tirea, Viorel Negru, Stock Market Trading Strategies Applying Risk and Decision Analysis Models for Detecting Financial Turbulence. SYNASC 2015: 216-223</u>	
59	<u>Todor Ivascu, Bogdan Manate, Viorel Negru, A Multi-agent Architecture for Ontology-Based Diagnosis of Mental Disorders. SYNASC 2015: 423-430</u>	
60	<u>Monica Tirea, Viorel Negru, Text Mining News System - Quantifying Certain Phenomena Effect on the Stock Market Behavior. SYNASC 2015: 391-398</u>	
61	<u>Todor Ivascu, Marc Frîncu, Viorel Negru: Considerations towards security and privacy in Internet of Things based eHealth applications. Sisy 2016: 275-280</u>	
62	<u>Todor Ivaşcu, Marc Frîncu, Viorel Negru, Energy efficient sensors data stream model for real-time and continuous vital signs monitoring, INISTA - Int. Conference on INnovations in Intelligent Systems and Applications, 2016,</u>	
63	<u>Monica Tirea and Viorel Negru. Behavioral Trading System - Detecting Crisis, Risk and Stability in Financial Markets, SYNASC 2016, IEEE Computer Science Pbs.</u>	
64	<u>Todor Ivascu, Adriana Dinis and Viorel Negru. Towards a Multi-agent System for Medical Records Processing and Knowledge Discovery, SYNASC 2016, IEEE Computer Science Pbs.</u>	
65	<u>Doru Rotovei, Viorel Negru, A methodology for improving complex sales success in CRM Systems. INISTA 2017: 322-327</u>	
66	<u>Ciprian Pungila, Viorel Negru, FAST: A High-Performance Architecture for Heterogeneous Big Data Forensics. SOCO-CISIS-ICEUTE 2017, Advances in Intelligent Systems and Computing 649, pp. 618-627, 2018</u>	
67	<u>T Ivascu, K Cincar, A Dinis, V Negru, Activities of daily living and falls recognition and classification from the wearable sensors data, E-Health and Bioengineering Conference (EHB), 2017, 627-630</u>	
68	<u>Doru Rotovei and Viorel Negru: Improving Lost/Won Classification in CRM Systems Using Sentiment Analysis, SYNASC 2017, to be published in IEEE Computer Society Pbs, January 2018 (ISI)</u>	
69	<u>Adriana Dinis, Todor Ivascu and Viorel Negru: Towards a Complex Evolutionary Agent-Based System for Medical Sensor Data, SYNASC 2017, to be published in IEEE Computer Society Pbs, January 2018 (ISI)</u>	
70	<u>Ciprian Pungila, Viorel Negru: Accelerating DNA Biometrics in Criminal Investigations Through GPU-Based Pattern Matching. SOCO-CISIS-ICEUTE 2018: 459-468</u>	
71	<u>Ciprian Pungila, Darius Galis, Viorel Negru: Survey on Feasibility of Pattern Matching Techniques In Heterogeneous Architectures for Bioinformatics. SYNASC 2018: 368-375</u>	
72	<u>Adriana Dinis, Todor Ivascu, Viorel Negru: A Self Developing System for Medical Data Analysis. SYNASC 2018: 335-339</u>	
73	<u>Ciprian Pungila, Viorel Negru: Accelerating DNA Biometrics in Criminal Investigations Through GPU-Based Pattern Matching. SOCO-CISIS-ICEUTE 2018: 459-468</u>	
74	<u>Ciprian Pungila, Darius Galis, Viorel Negru: Optimizing Pattern-Matching for Memory-Efficient Heterogeneous DNA Processing in Bioinformatics. SACI 2018: 1-5</u>	
75	<u>Ciprian Pungila, Viorel Negru: Improving Blockchain Security Validation and Transaction Processing Through Heterogeneous Computing. CISIS-ICEUTE 2019: 132-140</u>	
76	<u>Doru Rotovei, Viorel Negru: Data Driven Sales Prediction Using Communication Sentiment Analysis in B2B CRM Systems. SYNASC 2019: 174-181</u>	
77	<u>Doru Rotovei, Daniela Zaharie, Viorel Negru, Daniel Pop: A decision support system for B2B CRM Systems using belief rules. ICCP 2020: 131-138</u>	
78	<u>Ciprian Pungila, Viorel Negru: A Fast Heterogeneous Approach to Enhanced Blockchain Attack Resilience and Mitigation. CISIS-ICEUTE 2021: 3-12</u>	
79	<u>Mario Reja, Ciprian Pungila, Viorel Negru: Towards real-time DNA biometrics using GPU-accelerated processing. Log. J. IGPL 29(6): 906-924 (2021)</u>	
80	<u>Todor Ivascu, Viorel Negru: Activity-Aware Vital Sign Monitoring Based on a Multi-Agent Architecture. Sensors 21(11): 4181 (2021)</u>	
81	<u>Ciprian Pungila, Darius Galis, Viorel Negru: A New High-Performance Approach to Approximate Pattern-Matching for Plagiarism Detection in Blockchain-Based Non-Fungible Tokens (NFTs). CoRR abs/2205.14492 (2022)</u>	
82	<u>Darius Galis, Ciprian Pungila, Viorel Negru: A Fast NDFA-Based Approach to Approximate Pattern-Matching for Plagiarism Detection in Blockchain-Driven NFTs. DaWaK 2022: 53-58</u>	



## Viorel Negru. List of selected RD&I projects

Program / Project	Position	Period
EGI-INSPIRE - Integrated Sustainable Pan-European Infrastructure for Researchers in Europe, nr. 261323, FP7, Research Infrastructures	UVT-team leader	May 2010 - April 2014
HP-SEE - High-Performance Computing Infrastructure for South East Europe's Research Communities, FP7, nr. 261499, INFRA-2010-1.2.3 Virtual Research Communities	Member	September 2010 - mai 2013
mOSAIC - Open-Source API and Platform for Multiple Clouds, FP7-ICT-2009-5-1.2, STREP, nr. 256910	Task leader	2010-2113
HOST - High Performance Computing Service Centre, project EC FP7-REGPOT	WP leader	2012 - 2014
SEED - Speeding "Every European Digital", project ICT PSP	Member	2012 - 2013
AMICAS - Automated Management in Cloud and Sky Computing Environments, project PN-II-ID-PCE-2011-3-0260	Member	2012 - 2014
Infrastructura Grid orientata spre servicii: InfraGrid, POSCCE - 2.2.3	Resp. infra.	2009 - 2011
SCAPE - Scalable Preservation Environments, FP7 ICT-2009.4.1 (Grant Agreement number 270137)	Member	2011 - 2014
ICT Cost Action TD1202, Mapping and the citizen sensor	MC member	2012 - 2016
ICAM - Advanced Research Institute for Environment, POSCCE - 2.2.1	Member	2010 - 2015
Improving Quality and Competitiveness of doctoral research - POSDRU/88/1.5/S/49516	Expert	2010 - 2013
CloudLighting - Self-Organising, Self-Managing Heterogeneous Cloud, H2020-ICT-1, <a href="http://cloudlightning.eu/">http://cloudlightning.eu/</a>	Member	2015 - 2018
CBIES - Improving the capability of the Romanian and Serbian authorities of reacting in emergency situations, Romania-Rep of Serbia IPA Cross Border Cooperation Program,	WUT Manager	2013-2014
COST Action IC1305, NESUS: Network for Sustainable Ultrascale Computing, <a href="http://www.nesus.eu/">http://www.nesus.eu/</a>	Member	2014 - 2018
SPECS - Secure Provisioning of Cloud Services based on SLA Management, FP7-ICT, <a href="http://www.specs-project.eu/">http://www.specs-project.eu/</a>	Member	2013 - 2016
Share-PSI - CIP-IST-622012: Shared Standards for Open Data and Public Sector Information, 2014 - 2016, <a href="http://www.w3.org/2013/share-psi/">http://www.w3.org/2013/share-psi/</a>	Member	2014 - 2016
SESAME Net - Supercomputing Expertise for Small And Medium Enterprises, H2020-EINFRA-6, <a href="http://sesamenetwork.eu/">http://sesamenetwork.eu/</a>	Member	2015-2017
VI-SEE - VRE for regional Interdisciplinary communities in Southeast Europe and the Eastern Mediterranean, Grant agreement 675121 - H2020-EINFRA	Member	2015 - 2018
GOVeIn - European eInvoicing Project: implementation of the European electronic invoice within the Public Health area, Action n° 2015-EU-IA-0058	Member	2016 - 2017
InnoHPC - High-performance Computing for Effective Innovation in the Danube Region, Interreg - Danube Transnational Programme, 2017 - 2019, <a href="http://www.interreg-danube.eu/approved-projects/innohpc">http://www.interreg-danube.eu/approved-projects/innohpc</a>	UVT Team leader	2017 - 2019
ICAM 2 - Advanced Research Institute for Environment, POC - refazare	Manager	2018 - 2023
MOISE - Modernization of the computing and storage infrastructure of the Research Centre in Informatics of the West University of Timisoara - for Cloud and HPC services, contract 240/24.04.2020, ID: POC/398/1/1, SMIS 124562	Manager	2020 - 2022
SupportTM - Support center for participation in international projects, POC, contract 246/20.04.2020, ID: POC/80/1/2, SMIS 108173	Expert	2020 - 2023