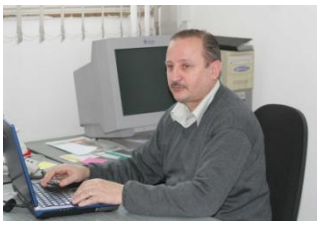
# Curriculum vitae Europass



## Informaţii personale


| | |
|---|---|
| Nume / Prenume | **Negru / Viorel** |
| Adresă(e) | 36A Martir Ioan Miron, 300291 Timisoara, Romania |
| Telefon(oane) | 0256 295234 Mobil: 0755240164 |
| Fax(uri) | 0256 592312 |
| E-mail(uri) | vnegru@info.uvt.ro, viorel.negru@e-uvt.ro |
| Naţionalitate(-tăţi) | Romana |
| Data naşterii | 16.09.1955 |
| Sex | M |


## Experienţa profesională

| | |
|---|---|
| Perioada | **2020 – in prezent** |
| Funcţia sau postul ocupat | Profesor emerit, Universitatea de Vest din Timisoara |
| Activităţi şi responsabilităţi principale | Coordonare doctoranzi, Scoala doctorala de Stiinte Exacte si Stiintele Naturii, domeniul Informatica |
| | Directorul Centrului de Cercetare in Informatica- CeRiCS |
| Perioada | **2020 - 2023** |
| Funcţia sau postul ocupat | Director, Institutul de Cercetari Avansate de Mediu |
| Activităţi şi responsabilităţi principale | Management si cercetare |
| Numele şi adresa angajatorului | Universitatea de Vest din Timisoara |
| Perioada | **1986 – 2020** |
| Funcţia sau postul ocupat | Asistent/Lector/Conferentiar/Profesor |
| Activităţi şi responsabilităţi principale | Didactic, Cercetare si Managerial (Cancelar – 1996-2000, Director de departament – 2004-2008, Prodecan – 2000-2008, Decan – 2008 – 2012; Prorector cercetare – 2012 - 2016; Presedinte Senat – martie 2016 – septembrie 2020; Director Centrul de Cercetare in Informatica (CeRiCS) – din 2010; Director Institutul de Cercetari Avansate de Mediu - octombrie 2020 – octombrie 2023). |
| Numele şi adresa angajatorului | Universitatea de Vest Timisoara, Facultatea de Matematica si Informatica, Departamentul de Informatica, B-dul Vasile Parvan 4 |
| Tipul activităţii sau sectorul de activitate | Invatamant superior |

| | |
|---|---|
| Perioada | **2002 – in prezent** |
| Funcţia sau postul ocupat | Cercetator senior |
| Activităţi şi responsabilităţi principale | Institutul e-Austria Timisoara |
| Numele şi adresa angajatorului | Bd. C. Coposu 4 |
| Tipul activităţii sau sectorul de activitate | Cercetare (Inteligenta Artificiala) si managerial (Transfer tehnologic) |
| Perioada | **1980 - 1986** |
| Funcţia sau postul ocupat | Analist programator |
| Activităţi şi responsabilităţi principale | Programare |
| Numele şi adresa angajatorului | Centrul de Calcul, Universitatea de Vest din Timisoara |

## Educaţie şi formare

| | |
|---|---|
| Perioada | **1992 – 1996** |
| Calificarea / diploma obţinută | Doctor |
| Disciplinele principale studiate / competenţe profesionale dobândite | Informatica / Inteligenta Artificiala |
| Numele şi tipul instituţiei de învăţământ / furnizorului de formare | Universitatea Babes-Bolyai Cluj Napoca |
| Nivelul în clasificarea naţională sau internaţională | |
| Perioada | **1975 – 1979** |
| Calificarea / diploma obţinută | Diploma in informatica |
| Disciplinele principale studiate / competenţe profesionale dobândite | Informatica |
| Numele şi tipul instituţiei de învăţământ / furnizorului de formare | Universitatea din Timisoara, Facultatea de Stiinte ale Naturii, sectia Informatica |
| Nivelul în clasificarea naţională sau internaţională | |

## Training

Oct. 1991 – Martie. 1992, Spec. Informatica Distribuita; Univ. Sophia Antipolis Nice

Aprilie 1992 – Septembrie 1992, Stagiu cercetare Sisteme Expert, Scoala de Mine Paris – Sophia Antipolis Nice

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

1982 – Specializare Minicalcultoare, Centrul de Calcul Teritorial Timisoara

Burse de studii si de cercetare (burse TEMPUS; ale guvernelor roman, francez si austriac; Erasmus), respectiv, profesor / cercetator invitat la urmatoarele universitati sau institute: Universitatea Sophia Antipolis Nice, Scoala 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 Nationala Taras Shevchenko Kiev.

**Aptitudini şi competenţe personale**

Rezultatele cercetarii s-au concretizat prin peste 170 de lucrari stiintifice publicate in reviste de specialitate sau in volume ale conferintelor.

Director / membru in peste 80 de proiecte de cercetare (dintre care 2 in Franta, 6 in Austria, 4 cu Banca Mondiala, 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, 1 proiect HE).

Director / expert in cinci proiecte cu finantare din fonduri structurale (POSDRU).

Expert ARACIS. Expert national (CNFIS, CNCSIS, INFOSOC, CEEX, PNII, PNIII) si expert in cadrul programelor europene (INTAS, FP6, FP7, H2020, Marie-Curie). Experienţă în evaluarea proiectelor europene de peste 15 ani.

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

Membru in consiliul Scolii doctoale de Matematica si Informatica de la Universitatea Babes-Bolyai din Cluj-Napoca (din 2012).

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

**Memnru Consiliu General CNATDCU (2020 - 2024).**

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

Editor la trei reviste de specialitate si referent stiintific la peste 15 reviste de specialitate.

Membru PC la peste 150 de conferinte internationale Organizare conferinte, workshop-uri, simpozioane: CSCS14 2003, CSCS17 2009, Bucuresti; ACSys 2004 – 2020, Timisoara; SYNASC 1999 – SYNASC 2025, ISPDC 2006, Timisoara; Grid School, 2006 - 2008, Timisoara, BigDAT 2018.

(Co)editor al volumelor conferintelor: SYNASC 1999 – SYNASC 2025.

Limba(i) maternăaprilie: **Romana**

Limba(i) străinăaprilie cunoscutăaprilie: **Engleza, Franceza**

| Autoevaluare | Înţelegere | | | | Vorbire | | | | Scriere | |
|---|---|---|---|---|---|---|---|---|---|---|
| *Nivel european (*)* | Ascultare | | Citire | | Participare la conversaţie | | Discurs oral | | Exprimare scrisă | |
| **Limba** | E | avansat | E | avansat | E | mediu | E | mediu | E | Avansat |
| **Limba** | F | avansat | F | avansat | F | mediu | F | mediu | F | Mediu |

*(*) Nivelul Cadrului European Comun de Referinţă Pentru Limbi Străine*

Competenţe şi abilităţi sociale: - Comunicare, lucrul in echipa.

Competenţe şi aptitudini organizatorice:
- Competente manageriale cu privire la: organizarea si coordonarea activitatii de cercetare / academice;
- Competente stiintifice cu privire la conducerea unor proiecte de cercetare, dezvoltare si transfer tehnologic;
- Organizarea de evenimente stiintifice.

Competenţe şi aptitudini tehnice: In conexiune cu informatica.

Competenţe şi aptitudini de utilizare a calculatorului: Specialist

Permisaprilie de conducere: Categoria B din 1985.

## Informaţii suplimentare

- Membru al asociaţiilor 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<br>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, http://www.scpe.org, ISSN 1895-1767 | |
| 14 | L.O. Mafteiu-Scai, 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 | |

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| 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. Aritoni, 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. Aritoni, 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 Aritoni 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. Aritoni, 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,<br>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 | |

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| 37 | Gabriel Iuhasz, Victor Ion Munteanu, Viorel Negru: Framework for Enabling Scalable Learning Game AI. ENASE 2013: 189-196 | |
| 38 | Daniela Zaharie, Lavinia Moatar-Moleriu, Viorel Negru: Particularities of evolutionary parameter estimation in multi-stage compartmental models of thymocyte dynamics. GECCO 2013: 303-310 | |
| 39 | Ionel Muscalagiu, Horia Emil Popa, Viorel Negru: The Impact of the „Nogood Processor" Technique in Scale-Free Networks. IDC 2013: 163-173 | |
| 40 | Gabriel Iuhasz, Victor Ion Munteanu, Viorel Negru: A Survey of Adaptive Game AI: Considerations for Cloud Deployment. IDC 2013: 309-315 | |
| 41 | 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 | |
| 42 | Ciprian-Petrisor Pungila, Viorel Negru: Real-Time Polymorphic Aho-Corasick Automata for Heterogeneous Malicious Code Detection. SOCO-CISIS-ICEUTE 2013: 439-448 | |
| 43 | Monica Tirea, Viorel Negru: Investment portfolio optimization based on risk and trust management. SISY 2013: 369-374 | |
| 44 | Monica Tirea, Viorel Negru: Classifying and quantifying certain phenomena effect. SISY 2013: 363-368 | |
| 45 | Gabriel Iuhasz, Victor Ion Munteanu, Viorel Negru: Data mining considerations for knowledge acquisition in real time strategy games. SISY 2013: 331-336 | |
| 46 | 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 | |
| 47 | 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)** | |
| 48 | 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) | |
| 49 | Gabriel Iuhasz, VictorIon 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 | |
| 50 | 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 | |
| 51 | 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 | |
| 52 | 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 | |
| 53 | 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) | |
| 54 | Teodor-Florin Fortis, Victor Ion Munteanu, Viorel Negru: A taxonomic view of cloud computing services. IJCSE 11(1): 17-28 (2015) | |
| 55 | Viorel Negru, Gheorghe Grigoras, Daniela Danciulescu: Natural Language Agreement in the Generation Mechanism based on Stratified Graphs. BCI 2015: 36:1-36:8 | |
| 56 | Ciprian Pungila, Viorel Negru: Real-Time Hybrid Compression of Pattern Matching Automata for Heterogeneous Signature-Based Intrusion Detection. CISIS-ICEUTE 2015: 65-74 | |
| 57 | Ciprian Pungila, Bogdan Manate, Viorel Negru: A Heterogeneous Fault-Resilient Architecture for Mining Anomalous Activity Patterns in Smart Homes. CISIS-ICEUTE 2015: 133-143 | |

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| 58 | Monica Tirea, Viorel Negru, Stock Market Trading Strategies Applying Risk and Decision Analysis Models for Detecting Financial Turbulence. SYNASC 2015: 216-223 | |
| 59 | Todor Ivascu, Bogdan Manate, Viorel Negru, A Multi-agent Architecture for Ontology-Based Diagnosis of Mental Disorders. SYNASC 2015: 423-430 | |
| 60 | Monica Tirea, Viorel Negru, Text Mining News System – Quantifying Certain Phenomena Effect on the Stock Market Behavior. SYNASC 2015: 391-398 | |
| 61 | Todor Ivascu, Marc Frîncu, Viorel Negru: Considerations towards security and privacy in Internet of Things based eHealth applications. SISY 2016: 275-280 | |
| 62 | 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, | |
| 63 | Monica Tirea and Viorel Negru. Behavioral Trading System – Detecting Crisis, Risk and Stability in Financial Markets, SYNASC 2016, IEEE Computer Science Pbs. | |
| 64 | 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. | |
| 65 | Doru Rotovei, Viorel Negru, A methodology for improving complex sales success in CRM Systems. INISTA 2017: 322-327 | |
| 66 | 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 | |
| 67 | 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 | |
| 68 | 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) | |
| 69 | 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) | |
| 70 | Ciprian Pungila, Viorel Negru: Accelerating DNA Biometrics in Criminal Investigations Through GPU-Based Pattern Matching. SOCO-CISIS-ICEUTE 2018: 459-468 | |
| 71 | Ciprian Pungila, Darius Galis, Viorel Negru: Survey on Feasibility of Pattern Matching Techniques In Heterogeneous Architectures for Bioinformatics. SYNASC 2018: 368-375 | |
| 72 | Adriana Dinis, Todor Ivascu, Viorel Negru: A Self Developing System for Medical Data Analysis. SYNASC 2018: 335-339 | |
| 73 | Ciprian Pungila, Viorel Negru: Accelerating DNA Biometrics in Criminal Investigations Through GPU-Based Pattern Matching. SOCO-CISIS-ICEUTE 2018: 459-468 | |
| 74 | Ciprian Pungila, Darius Galis, Viorel Negru: Optimizing Pattern-Matching for Memory-Efficient Heterogeneous DNA Processing in Bioinformatics. SACI 2018: 1-5 | |
| 75 | Ciprian Pungila, Viorel Negru: Improving Blockchain Security Validation and Transaction Processing Through Heterogeneous Computing. CISIS-ICEUTE 2019: 132-140 | |
| 76 | Doru Rotovei, Viorel Negru*:* Data Driven Sales Prediction Using Communication Sentiment Analysis in B2B CRM Systems. SYNASC 2019*: 174-181* | |
| 77 | Doru Rotovei, Daniela Zaharie, Viorel Negru, Daniel Pop*:* A decision support system for B2B CRM Systems using belief rules. ICCP 2020*: 131-138* | |
| 78 | *Ciprian Pungila*, *Viorel Negru*: *A Fast Heterogeneous Approach to Enhanced Blockchain Attack Resilience and Mitigation. CISIS-ICEUTE 2021*: 3-12 | |
| 79 | Mario Reja, Ciprian Pungila, Viorel Negru: Towards real-time DNA biometrics using GPU-accelerated processing. Log. J. IGPL 29(6): 906-924 (2021) | |
| 80 | Todor Ivascu, Viorel Negru: Activity-Aware Vital Sign Monitoring Based on a Multi-Agent Architecture. Sensors 21(11): 4181 (2021) | |
| 81 | *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) | |
| 82 | *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 | |

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| 83 | Doru Rotovei, Viorel Negru: Multi-Agent Recommendation and Aspect Level Sentiment Analysis in B2B CRM Systems. SYNASC 2020: 238-245 | |
| 84 | Kristijan Cincar, Todor Ivascu, Viorel Negru: Comparative study of machine learning methods to classify bowel polyps. SYNASC 2023: 279-286 | |
| 85 | Bogdan-Petru Butunoi, Viorel Negru: Predicting Blood Glucose Levels Using LSTM. SYNASC 2023: 293-299 | |
| 86 | Bogdan-Petru Butunoi, Cristina Stolojescu-Crisan, Viorel Negru: Blood Glucose Prediction in Type 1 Diabetes Based on Long Short-Term Memory. ICCCI (CCIS Volume 2) 2024: 458-469 | |
| 87 | Alina Carunta, Alexandru Eugeniu Mizeranschi, Cristina Carunta, Horia Leonard Banciu, Oana Teodora Moldovan, Daniela Zaharie, Viorel Negru: An Exploration of K-Mer Ranges for Megahit in the Context of Microbial Community-Wide Identification of Antimicrobial Resistance Genes and Biosynthetic Gene Clusters. BIBE 2024: 1-5 | |
| 88 | Darius Galis, Ciprian Pungila, Viorel Negru: Realtime polymorphic malicious behavior detection in blockchain-based smart contracts. Log. J. IGPL 32(2): 210-223 (2024) | |
| 89 | BP Butunoi, C Stolojescu-Crisan, V Negru: Short-term glucose prediction in Type 1 Diabetes<br>Procedia Computer Science 238, 41-48 | |
| 90 | Cincar, K., Ivascu, T., Negru, V. (2025). MAS-PatientCare: Medical Diagnosis and Patient Management<br>System Based on a Multi-agent Architecture. In: Badica, C., Gu ev, M., Iftene, A., Ivanovic, M., Manolopoulos,<br>Y., Xinogalos, S. (eds) Advances in ICT Research in the Balkans. BCI 2024. Communications in Computer and<br>Information Science, vol 2391. Springer, Cham. https://doi.org/10.1007/978-3-031-84093-7_17 | |
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## 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, http://cloudlightning.eu/ | 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, http://www.nesus.eu/ | Member | 2014 – 2018 |
| SPECS – Secure Provisioning of Cloud Services based on SLA Management, FP7-ICT, http://www.specs-project.eu/ | Member | 2013 – 2016 |
| Share-PSI – CIP-IST-622012: Shared Standards for Open Data and Public Sector Information, 2014 – 2016, http://www.w3.org/2013/share-psi/ | Member | 2014 – 2016 |
| SESAME Net – Supercomputing Expertise for Small And Medium Enterprises, H2020-EINFRA-6, http://sesamenetwork.eu/ | 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, http://www.interreg-danube.eu/approved-projects/innohpc | 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 |
| RoNaQCI – Romanian National Quantum Communication Infrastructure, ID: 101091562, DIGITAL-2021-QCI-01-DEPLOY-NATIONAL | Member | 2023 – 2025 |
| AI4EUROPE+ **– AN AI ON-DEMAND PLATFORM TO SUPPORT RESEARCH EXCELLENCE IN EUROPE**, PN-IV-P8-8.1-PRE-HE-ORG-2023-0072 | Director | 2023 - 2025 |

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| HRIA - Romanian Hub for Artificial Intelligence, Smart Growth, Digitization and Financial Instruments Program, 2021 - 2027, MySMIS no. 351416 | UVT team leader | 2025 - 2029 |