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Profile

Prof. Nikolaos S. Voros, received his Diploma in Computer and Informatics Engineering, in 1996, and his PhD degree, in 2001, from University of Patras, Greece. His research interests fall in embedded/cyberphysical system design, and include specification techniques, hardware-software co-design, formal refinement techniques, and reuse practices. Dr Voros is Professor at University of the Peloponnese, Department of Computer and Electrical Engineering, where he is leading the Embedded Systems Laboratory (<http://www.esdalab.ece.uop.gr>) which is an official Digital Innovation Hub of European Commission (<http://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-tool>). During the last years, Dr Voros has participated in more than 30 research projects funded by European Commission either as project manager or as scientific advisor. He has served as scientific coordinator of FP7 STREP Project 287733 ALMA and ICT coordinator for FP7 STREP Project 287720 ARMOR. Currently, Prof. Voros is the scientific coordinator of Horizon 2020 Project ARGO and the technical coordinator of Horizon 2020 Project RADIO which has been awarded by European Commission (http://ec.europa.eu/research/infocentre/article_en.cfm?&artid=45657&caller=SuccessStories). Dr Voros has published more than 120 referred articles in well known international journals and conferences, while he has served as associate editor in prestigious journals including IEEE Transactions on Nanotechnology, IEEE Transactions on Very Large-Scale Integration Systems, ACM Transactions on Reconfigurable Technology and Systems and IEEE Consumer Electronics Magazine. He has also published numerous books including «System Level Design with Reuse of System IP», «System Level Design of Reconfigurable Systems-on-Chip» and «Components and Services for IoT platforms: paving the way for IoT standards» published by Springer. He has served as General Chair in ISVLSI 2010, ARC 2018 and as Program Chair in RecoSoC 2012, FPL 2014, ISVLSI 2017 conferences. Currently, he is the director of the Master Course entitled “Smart ICT Services & Infrastructures” which is organized by Computer and Electrical Engineering department.

Education & Training

1997-2001	University of Patras	PhD, Electrical Engineering and Computer Technology Department
1991-1996	University of Patras	Diploma on Computer & Informatics Engineering, Computer and Informatics Engineering Department

Academic Experience

Univerristy of the Peloponnese, Computer and Elecrtical Department

- 2019 – today, Associate Professor

Undergraduate courses (2019 - today):

- Embedded Systems I
- Embedded Systems II
- Cyberphysical Systems

Technological Educational Institute of Western Greece, Computer Engineering & Informatics Department

- 2008 – 2015, Assitant Professor

- 2015 – 2019, Associate Professor

Undergraduate courses (2008 - 2019):

- System Modeling
- Hardware/software codesign
- Formal Design Languages
- Embedded Systems I
- Embedded Systems II

Postgraduate courses (2013 - 2018):*

- Frameworks and methodologies for hardware/software codesign
- Embedded System Design

(*) The postgraduate courses are taught in the the context of MSc program of the Computer Engineering & Informatics Department, entitled *Technologies and Infrastructures for Broadband Applications and Services*.

*Postgraduate courses** (2018 - today):*

- Internet of Things
- Smart Cyberphysical Systems

(**) The postgraduate courses are taught in the the context of MSc Program of Computer and Electrical Engineering Department, entitled *Smart ICT Services & Infrastructures*.

Hellenic Open University, *School of Science & Technology*, Computer Science Program

- 2001 – today, Adjunct Professor in the Thematic Unit: *Telematic, Internet and Society*
- 2017 – today, Co-ordinator of the Thematic Unit: *Telematic, Internet and Society*

Academic Positions

Technological Educational Institute of Western Greece, *Computer Engineering & Informatics Department*

- 01/2017 - 08/2017, Vice President of Computer Engineering & Informatics Department
- 2018 – today, Director of the MSc Program of Computer and Electrical Engineering Department, entitled *Smart ICT Services & Infrastructures* (<http://smart-ict.cied.teiwest.gr>)
- 2017 – 2018, Director of the MSc Program of Computer Engineering & Informatics Department in the area of *Technologies and Infrastructures for Broadband Applications and Services* (<http://www.msc.cied.teiwest.gr>)
- 2015 – today, Director of *Embedded System Design and Application Laboratory* (<https://esda-lab.gr>) of Computer Engineering & Informatics Department
- 2015 – today, Elected member of the Research Committee of the Technological Educational Institute of Western Greece

Associate Editor in International Journals

- IEEE Transactions on Nanotechnology (TNANO)
- IEEE Transactions on Very Large-Scale Integration (VLSI) Systems
- ACM Transactions on Reconfigurable Technology and Systems (TRETs)
- IEEE Consumer Electronics Magazine (CEM)
- Springer Journal of Signal Processing Systems

Publications

Prof. Voros has published 9 international books in well known publishing houses and more that 120 articles in prestigious journals and conferences.

Publications in International Journals

- J1. V. Kelefouras, K. Djemame, G. Keramidas, N. Voros, "A Methodology for Efficient Tile Size Selection for Affine Loop Kernels", *International Journal of Parallel Programming*, 50, 405–432 Springer, 2022. <https://doi.org/10.1007/s10766-022-00734-5>
- J2. Nikos Petrellis, Christos Antonopoulos, Georgios Keramidas and Nikolaos Voros, "Mobile Plant Disease Classifier, Trained with a Small Number of Images by the End User", *MDPI Agronomy* 2022: Special Issue Machine Vision Systems in Digital Agriculture, Volume 12, Issue 8. <https://doi.org/10.3390/agronomy12081732>
- J3. Safdar Mahmood, Kwame Owusu Ampadu, Konstantinos Antonopoulos, Christos Panagiotou, Sergio Andres Pertuz Mendez, Ariel Podlubne, Christos Antonopoulos, Georgios Keramidas, Michael Hübner, Diana Goehringer and Nikolaos Voros, "Prospects of Robots in Assisted Living Environment", *Electronics*, 2021, 10, 2062. <https://doi.org/10.3390/electronics10172062>
- J4. Christos P. Antonopoulos, Georgios Keramidas, Nikolaos S. Voros, Michael Huebner, Fynn Schwiegelshohn, Diana Goehringer, Maria Dagioglou, Georgios Stavrinou, Stasinou Konstantopoulos, Vangelis Karkaletsis, "Towards an ICT based Service Oriented Health Care Paradigm", *IEEE Consumer Electronics Magazine*, pp. 77 – 82, Volume: 9 , 4 , July 2020
- J5. Georgios Keramidas, Christos Antonopoulos, Alexandros Spournias, Nikolaos S. Voros, Fynn Schwiegelshohn, Diana Göhringer, Evaggelinos Mariatos, "Optimizing the Operational Time of AAL Robots", *IEEE Consumer Electronics Magazine*, pp. 97 – 104, Volume: 9 , Issue: 3 , May 2020
- J6. Simon Reder, Fabian Kempf, Harald Bucher, Jürgen Becker, Panayiotis Alefragis, Nikolaos Voros, Stefanos Skalistis, Steven Derrien, Isabelle Puaut, Oliver Oey, Timo Stripf, Christian Ferdinand, Clément David, "WCET Aware Parallelization of Model-based Avionics", *Applications*, *Journal of Aerospace Information Systems*, American Institute of Aeronautics and Astronautics, pp. 521 – 533, Volume: 16, Number 11, November 2019
- J7. Christos P. Antonopoulos, Konstantinos Antonopoulos, Christos Panagiotou, Nikolaos S. Voros, "Tackling Critical Challenges towards Efficient CyberPhysical Components & Services Interconnection: The ATLAS CPS Platform Approach", *Journal of Signal Processing Systems*, Online article available at: <https://rdcu.be/bfrvl>, Springer, 2019
- J8. Christos P. Antonopoulos, Nikolaos S. Voros, "A Data Compression Hardware Accelerator Enabling Long Term Biosignal Monitoring based on Ultra Low Power IoT Platforms", *Electronics* 2017, 6(3), 54 (doi:10.3390/electronics6030054), MDPI AG, 2017
- J9. Christos Valouxis, Christos Gogos, Panayiotis Alefragis, George Goulas, Nikolaos Voros, Efthymios Housos, "Scheduling Independent Tasks on Heterogeneous Processors using Heuristics and Column Pricing", *Future Generation Computer Systems*, *The International Journal of eScience*, Elsevier, 2016
- J10. Christos P. Antonopoulos, Nikolaos S. Voros, "Resource Efficient Data Compression Algorithms for Demanding, WSN based Biomedical Applications", *Journal of Biomedical Informatics*, Volume 59, pp. 1–14, Elsevier, 2016
- J11. Andreas Emeretlis, George Theodoridis, Panayiotis Alefragis, Nikolaos Voros, "A Logic-Benders Decomposition Approach for Mapping Applications on Heterogeneous Multicore Platforms", *ACM Transactions on Embedded Computing Systems*, Volume 15 Issue 1, Article No. 19, February 2016
- J12. Ch. P. Antonopoulos, Th. Panagiotakopoulos, Ch. Panagiotou, G. Touliaos, S. Koubias, Achilles Kameas and Nikolaos S. Voros, "On Developing a Novel Versatile Framework for Heterogeneous Home Monitoring WSN networks", *EAI Endorsed Transactions on Pervasive Health and Technology*, Volume 01, Issue 1, e4 (open access), ICST, 2015
- J13. Andreas Emeretlis, George Theodoridis, Panayiotis Alefragis and Nikolaos Voros, "Static Mapping of Applications on Heterogeneous Multi-Core Platforms Combining Logic-Based Benders Decomposition with Integer Linear Programming", *ACM Transactions on Design Automation of Electronic Systems*, pp. 1 – 24, Volume 23, Issue 2, Article No: 26, January 2014
- J14. Andreas Emeretlis, George Theodoridis, Panayiotis Alefragis and Nikolaos Voros, "Static Mapping of Applications on Heterogeneous Multi-Core Platforms Combining Logic-Based Benders Decomposition with Integer Linear Programming", *ACM Transactions on Design Automation of Electronic Systems*, pp. 1 – 24, Volume 23, Issue 2, Article No: 26, January 2014
- J15. Timo Stripf, Oliver Oey, Thomas Bruckschloegl, Juergen Becker, Gerard Rauwerda, Kim Sunesen, George Goulas, Panayiotis Alefragis, Nikolaos S. Voros, Steven Derrien, Olivier Sentieys, Nikolaos

- Kavvadias, Grigoris Dimitroulakos, Kostas Masselos, Dimitrios Kritharidis, Nikolaos Mitas, Thomas Perschke, "Compiling Scilab To High Performance Embedded Multicore Systems", *Journal of Microprocessors and Microsystems*, Volume 37, Issue 8, Part C, pp. 1033–1049, Elsevier, November 2013
- J16. Nikolaos S. Voros et al., "MORPHEUS: A heterogeneous dynamically reconfigurable platform for designing highly complex embedded systems", *ACM Transactions on Embedded Computing Systems*, Vol. 12, No. 3, Article 70, March 2013
- J17. Arnaud Grasset, Philippe Millet, Philippe Bonnot, Sami Yehia, Wolfram Putzke-Roeming, Fabio Campi, Alberto Rosti, Michael Huebner, Nikolaos S. Voros and Davide Rossi, "The MORPHEUS Heterogeneous Dynamically Reconfigurable Platform", *International Journal of Parallel Programming*, vol. 39, No. 3, pp. 328-356, 2011
- J18. K. Antonis and N. S. Voros, "System level design of telecom systems using formal model refinement: Applying the B method/language in practice", *Journal of Systems Architecture*, 54/1-2 (2008), pp. 287–304, Elsevier
- J19. K. Masselos and N. S. Voros, "Implementation of Wireless Communications Systems on FPGA based platforms", *EURASIP Journal on Embedded Systems*, 2007
- J20. Fotios Gioulekas, Michael Birbas, Nikolaos Voros, George Kouklaras, Alexios Birbas, "Heterogeneous System Level Co-Simulation for the Design of Telecommunication Systems", *Journal of Systems Architecture*, 51/12 (2005), pp. 688-705, Elsevier.
- J21. Nikolaos S. Voros, Colin F. Snook, Stefan Hallerstede, Konstantinos Masselos, "Embedded system design using formal model refinement: An approach based on the combined use of UML and the B language", *Journal of Design Automation for Embedded Systems*, vol. 9, Number 2, pp. 67 – 99, Springer, 2005
- J22. N. Voros, L. Sanchez, A. Alonso, M. Birbas, A. Birbas and A. Jerraya, "Hardware/Software Co-design of complex embedded systems: An approach using efficient process models, multiple formalism specification and validation via co-simulation", *Journal of Design Automation for Embedded Systems*, vol. 8, Number 1, pp. 5-49, Kluwer Academic Publishers, 2003
- J23. S. K. Tsasakou, N. S. Voros, A. N. Birbas, M. V. Koziotis, D. G. Papadopoulos, "High-level co-simulation based on the extension of processor simulators", *Journal of Systems Architecture*, (47)1 (2001), pp. 1-13, Elsevier, January 2001

Publications in International Conferences

- CP1. Andreas Emeretlis, George Theodoridis, Panayiotis Alefragis and Nikolaos Voros, "A Multi-stage Hybrid Approach for Mapping Applications on Heterogeneous Multi-core Platforms", 30th IFIP/IEEE International Conference on Very Large-Scale Integration, 3rd – 5th October 2022, Patras, Greece.
- CP2. K. Antonopoulos, D. Ringas, E. Christopoulou, G. Keramidas, C. P. Antonopoulos and N. Voros, "A Network Simulator as a Service for Demanding Performance Evaluation of Wireless and IoT Scenarios", IEEE International Mediterranean Conference on Communications and Networking (MeditCom 2022), September 5th – 8th, Athens, Greece, 2022
- CP3. Evanthia Faliagka, Georgia Kaisari, Spyridon T. Mavrikis, Alexandros Spournias, Christos Antonopoulos, Nikolaos Voros, "Covid-19 protection in AAL environments using thermal and web cameras", 11th Mediterranean Conference on Embedded Computing (MECO), June 7th – 10th, Budva, Montenegro, 2022
- CP4. Evanthia Faliagka, Christos Panagiotou, Konstantinos Antonopoulos, Vasileios Stavropoulos, Dimitris Karadimas, Georgios Keramidas, Christos Antonopoulos, Nikolaos Voros, "An architecture for handling heterogenous services in a speech and language therapy platform", 11th Mediterranean Conference on Embedded Computing (MECO), June 7th – 10th, Budva, Montenegro, 2022
- CP5. Fahad Siddiqui, Rafiullah Khan, Sakir Sezer, Kieran McLaughlin, Vahid Garousi, Leonard Masing, Tobias Dorr, Florian Schade, Jurgen Becker, Alexander Ahlbrecht, Wanja Zaeske, Umut Durak, Nico Adler, Andreas Sailer, Raphael Weber, Thomas Wilhelm, Geza Nemeth, Victor Morales, Paco Gomez, Georgios Keramidas, Christos P. Antonopoulos, Michail Mavropoulos, Vasilios Kelefouras, Konstantinos Antonopoulos, Nikolaos Voros, Christos Panagiotou and Dimitris Karadimas, "XANDAR: A holistic Cybersecurity Engineering Process for Safety-critical and Cyber-physical Systems", IEEE 95th Vehicular Technology Conferenc (VTC2022), 19th – 22nd June, Helsinki, Finland, 2022
- CP6. Konstantinos Antonopoulos, Dimitris Karadimas, Alexandros Spournias, Christos Panagiotou, Ignantios Fotiou, Ioannis Symeonidis, Christos Antonopoulos, Michael Hübner, Nikolaos Voros, "A distributed Embedded Systems IoT platform and Associated services Supporting Shopping Cart

- for Disabled People”, Proceedings of 35th Symposium on Integrated Circuits and Systems Design, August 22nd – 26th, Rio Grande do Sul state, Brazil, 2022
- CP7. Tobias Dörr, Florian Schade, Leonard Masing, Jürgen Becker, Georgios Keramidas, Christos P. Antonopoulos, Michail Mavropoulos, Vasilios Kelefouras, Nikolaos Voros, “Safety by Construction: Pattern-Based Application of Safety Mechanisms in XANDAR”, Proceedings of IEEE Annual Symposium on ISVLSI, July 4th – 6th, Pafos, Cyprus, IEEE Computer Society, 2022
- CP8. Evanthia Faliagka, Christos Panagiotou, Christos Antonopoulos, Georgios Keramidas, Nikolaos Voros, “A Novel Marketplace Perspective Promoting Customized Low Energy Computing and IoT: The SMART4ALL Approach”, Proceedings of IEEE Annual Symposium on ISVLSI, July 4th – 6th, Pafos, Cyprus, IEEE Computer Society, 2022
- CP9. N. Petrellis, S. Zogas, P. Christakos, P. Mousoulitotis, G. Keramidas, N. Voros, C. Antonopoulos, “Software Acceleration of the Deformable Shape Tracking Application”, 2nd Symposium on Pattern Recognition and Applications, ACM Proceedings, November 19th -21st 2021, Larissa, Greece
- CP10. N. Petrellis, P. Christakos, S. Zogas, P. Mousoulitotis, G. Keramidas, N. Voros, C. Antonopoulos, “Challenges Towards Hardware Acceleration of the Deformable Shape Tracking Application”, In the Proceedings of the IEEE VLSI SoC Conference, October 4th – 8th 2021, Singapore
- CP11. S. T. Mavrikis, C. P. Antonopoulos, N. S. Voros and G. Keramidas, "Comparative evaluation of computer vision technologies, targeting object identification and localization scenarios," pp. 1-8, 6th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM), 6th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM), September 24th – 26th, 2021, Preveza, Greece, doi: 10.1109/SEEDA-CECNSM53056.2021.9566211
- CP12. V. Argyros, E. Christopoulou, C. Panagiotou, K. Antonopoulos, C. Antonopoulos and N. Voros, "A Mobile Application for a Smart Home Ecosystem," pp. 1-8, 6th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM), 6th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM), September 24th – 26th 2021, Preveza, Greece, doi: 10.1109/SEEDA-CECNSM53056.2021.9566250
- CP13. K. Antonopoulos, C. Panagiotou, C. Antonopoulos, N. Voros and G. Keramidas, "Characterization of WiFi Modules Using an Open-Source Network Simulator," pp. 1-8, 6th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM), September 24th – 26th 2021, Preveza, Greece, doi: 10.1109/SEEDA-CECNSM53056.2021.9566223
- CP14. Vasilios Kelefouras, Karim Djemame, Georgios Keramidas, and Nikolaos Voros, “An analytical model for loop tiling transformation”, Proceedings of International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulation (SAMOS 2021), July 4 – 8, Samos, Greece, 2021.
- CP15. Panagiotis Mousoulitotis, Stavros Zogas, Panagiotis Christakos, Georgios Keramidas, Nikos Petrellis, Christos Antonopoulos, Nikolaos Voros, "Exploiting Vitis Framework for Accelerating Sobel Algorithm," pp. 1-5, 10th Mediterranean Conference on Embedded Computing (MECO), June 7th – 10th, 2021, Budva, Montenegro, doi: 10.1109/MECO52532.2021.9460221
- CP16. Alexandros Spournias, Panagiotis Bountas, Evanthia Faliagka, Dimitris Kontargiris, Christos Antonopoulos, Georgios Keramidas, Nikolaos S. Voros, "Smart health monitoring using AI techniques in AAL environments," pp. 1-6, 10th Mediterranean Conference on Embedded Computing (MECO), June 7th – 10th 2021, Budva, Montenegro, doi: 10.1109/MECO52532.2021.9460154
- CP17. Liapis A., Faliagka E., Katsanos C., Antonopoulos C., Voros N. (2021) Detection of Subtle Stress Episodes During UX Evaluation: Assessing the Performance of the WESAD Bio-Signals Dataset. In: Ardito C. et al. (eds) Human-Computer Interaction – INTERACT 2021, Lecture Notes in Computer Science, vol 12934. Springer, Cham., August 30th – September 3rd 2021, Bari, Italy, https://doi.org/10.1007/978-3-030-85613-7_17
- CP18. A. Spournias, E. Faliagka, C. Antonopoulos, G. Keramidas and N. Voros, "Social Distance Monitoring using AI techniques in AAL environments," pp. 383-387, IEEE International Conference on Smart Internet of Things (SmartIoT), August 13th – 15th 2021, Jeju Island, South Korea, doi: 10.1109/SmartIoT52359.2021.00071.
- CP19. Angelos S. Voros, Christos Panagiotou, Stavros Zogas, Georgios Keramidas, Christos P. Antonopoulos, Michael Hubner, Nikolaos S. Voros, "The SMART4ALL High Performance Computing Infrastructure: Sharing high-end hardware resources via cloud-based microservices," pp. 384-

- 385, 31st International Conference on Field-Programmable Logic and Applications (FPL), August 30th – September 3rd 2021, Dresden, Germany, doi: 10.1109/FPL53798.2021.00076.
- CP20. Jürgen Becker, Leonard Masing, Tobias Dörr, Florian Schade, Georgios Keramidas, Christos P. Antonopoulos, Michail Mavropoulos, Efstratios Tiganourias, Vasilios Kelefouras, Konstantinos Antonopoulos, Nikolaos Voros, Umut Durak, Alexander Ahlbrecht, Wanja Zaeske, Christos Panagiotou, Dimitris Karadimas, Nico Adler, Andreas Sailer, Raphael Weber, Thomas Wilhelm, Florian Oszwald, Dominik Reinhardt, Mohamad Chamas, Adnan Bekan, Graham Smethurst, Fahad Siddiqui, Rafiullah Khan, Vahid Garousi, Sakir Sezer, Victor Morales, "XANDAR: X-by-Construction Design framework for Engineering Autonomous & Distributed Real-time Embedded Software Systems," pp. 382-383, 31st International Conference on Field-Programmable Logic and Applications (FPL), August 30th – September 3rd 2021, Dresden, Germany, doi: 10.1109/FPL53798.2021.00075.
- CP21. N. Petrellis, Nikos Petrellis, Stavros Zogas, Panagiotis Christakos, Georgios Keramidas, Panagiotis Mousoulitiotis, Nikolaos Voros, Christos Antonopoulos, "High Speed Implementation of the Deformable Shape Tracking Face Alignment Algorithm," pp. 174-177, 24th Euromicro Conference on Digital System Design (DSD), September 1st – 3rd 2021, Palermo, Spain, doi: 10.1109/DSD53832.2021.00035
- CP22. Alexandros Spournias, Evanthia Faliagka, Christos P. Antonopoulos, Nikolaos S. Voros, "Knowledge diffusion through experiential education, focusing on robotic technologies, virtual reality and internet of things", Proceedings of PCI 2020: 24th Pan-Hellenic Conference on Informatics, pp. 363 – 366, November 20th – 22th 2020, Athens, Greece, ACM Proceedings, <https://doi.org/10.1145/3437120.3437341>
- CP23. A. Spournias, C. Antonopoulos, G. Keramidas, N. Voros and R. Stojanović, "Enhancing Visual Recognition for Door Status Identification in AAL Robots via Machine Learning," pp. 1-6, 9th Mediterranean Conference on Embedded Computing (MECO), June 11th – 14th 2020, Budva, Montenegro, doi: 10.1109/MECO49872.2020.9134108
- CP24. Christos P. Antonopoulos, Georgios Keramidas, Vassilis D. Tsakanikas, Evi Faliagka, Christos Panagiotou, Nikolaos Voros, "Capacity Building Among European Stakeholders In the Areas of Cyber-Physical Systems, IoT & Embedded Systems: The SMART4ALL Digital Innovation Hub Perspective", *Proceedings of IEEE Annual Symposium on ISVLSI*, July 6th – 8th, Limassol, Cyprus, IEEE Computer Society, 2020
- CP25. Georgios Keramidas, Christos P. Antonopoulos, Nikolaos Voros, Pekka Jääskeläinen, Marisa Catalán Cid, Evangelia I. Zacharaki, Apostolos P. Fournaris, Aris Lalos, "CPSoSaware: Cross-layer Cognitive Optimization Tools & Methods for the Lifecycle Support of Dependable CPSoS", *Proceedings of IEEE Annual Symposium on ISVLSI*, July 6th – 8th, Limassol, Cyprus, IEEE Computer Society, 2020
- CP26. Nikolaos Voros, Christos Antonopoulos, Georgios Keramidas, Michael Huebner, Radovan Stojanovic, "SMART4ALL an extensive network of Digital Innovation Hubs for boosting technology and business development in South, Eastern and Central Europe", 9th Mediterranean Conference on Embedded Computing (MECO'2020), 8th – 11th June, Budva, Montenegro, 2020
- CP27. Alexandros Spournias, Georgios Keramidas, Christos Antonopoulos, Nikolaos Voros, Radovan Stojanović, "Enhancing visual recognition for door status identification in AAL robots via machine learning", 9th Mediterranean Conference on Embedded Computing (MECO'2020), 8th – 11th June, Budva, Montenegro, 2020
- CP28. Alexandros I. Papadopoulos, Christos P. Antonopoulos, Konstantinos Antonopoulos, Nikolaos S. Voros, and Stavros Koubias, "Development of Highly Accurate IoT-Ready Quaternion-based 3D Gradiometer based on COTS IMUs", 12th International Workshop on Selected Topics in Wireless and Mobile computing (STWiMob 2019) at 15th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2019), 21 – 23 October, Barcelona, Spain, 2019
- CP29. Ch. P. Antonopoulos, P. Kerverkloglou, N. Voros, I. Fotiou, "Developing autonomous cart equipment and associated services for supporting people with moving disabilities in Supermarkets: The EQUAL Approach", 10th IEEE International Conference on Information, Intelligence, Systems and Applications (IISA 2019), July 15th – 17th, Patra, Greece
- CP30. K. Antonopoulos, Ch. Panagiotou, Ch. P. Antonopoulos, N. S. Voros, "A-FARM Precision Farming CPS Platform", 10th IEEE International Conference on Information, Intelligence, Systems and Applications (IISA 2019), July 15th – 17th, Patra, Greece
- CP31. Spournias, T. Skandamis, E. Pappas, Ch. Antonopoulos, N. S. Voros, "Enhancing SLAM method for mapping and tracking using a low-cost laser scanner", 10th IEEE International Conference on Information, Intelligence, Systems and Applications (IISA 2019), July 15th – 17th, Patra, Greece

- CP32. Christos Valouxis, Christos Gogos, Panayiotis Alefragis, George Theodoridis and Nikolaos Voros, "Constraint Programming Modeling for the Task Scheduling Problem with Data Storage at MPSoCs", 12th International Conference of the Practice and Theory of Automated Timetabling, PATAT 2018, August 28-31, Vienna, Austria, 2018
- CP33. Alexandros Spournias, Konstantinos Christopoulos, Kostas Antonopoulos, Christos Panagiotou, Christos Antonopoulos, Theofanis Orfanoudakis, Nikolaos Voros, "Experimental Evaluation of a Novel Personal Assistant in Greek Language for Ambient Assisted Living Environments employing home robots", IEEE South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference, September 22nd - 24th, Kastoria, Greece, 2018
- CP34. Panayiotis Alefragis, George Theodoridis, Merkourios Katsimpris, Christos Valouxis, Christos Gogos, George Goulas, Nikolaos S. Voros, Simon Reder, Marcus Bednara, Umut Durak and Juergen Becker, "Mapping and scheduling hard real-time applications on multicore systems - The ARGO approach", pp. 700 - 711, 14th International Symposium on Applied Reconfigurable Computing (ARC 2018), May 2nd - 4th, Santorini Island, Greece, 2018
- CP35. Christos Antonopoulos, Georgios Keramidas, Nikolaos S. Voros, "Robots in assisted living environments as an unobtrusive, efficient, reliable and modular solution for independent ageing: The RADIO Experience", pp. 712 - 723, 14th International Symposium on Applied Reconfigurable Computing (ARC 2018), May 2nd - 4th, Santorini Island, Greece, 2018
- CP36. Ch. P. Antonopoulos, K. Antonopoulos, Ch. Panagiotou, N. S. Voros, "Tackling Wireless Sensor Network Heterogeneity Through Novel Reconfigurable Gateway Approach", pp. 269 - 280, 14th International Symposium on Applied Reconfigurable Computing (ARC 2018), May 2nd - 4th, Santorini Island, Greece, 2018
- CP37. Konstantinos Christopoulos, Alexandros Raptis, Christos Antonopoulos, Theofanis Orfanoudakis, Nikolaos Voros, "A Scalable Approach to Efficient House Power Consumption and CO₂ Management Through Fuzzy Logic", 19th IEEE International Conference on Industrial Technology (ICIT 2017), February 20th - 22nd, Lyon, France, 2017
- CP38. Andreas Emeretlis, Theodore Tsakoulis, George Theodoridis, Panayiotis Alefragis, and Nikolaos Voros, "Task graph mapping and scheduling on heterogeneous architectures under communication constraints", Proceedings of International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulation (SAMOS 2017), July 17 - 20, Samos, Greece, 2017
- CP39. Christos Antonopoulos, Gerasimos Touliatos, Nikolaos Voros, Stavros Koubias, "Enhanced WSN Simulation Accuracy Through Novel Hardware in the Loop Approach", 19th IEEE International Conference on Industrial Technology (ICIT 2017), February 20th - 22nd, Lyon, France, 2017
- CP40. Andreas Emeretlis, George Theodoridis, Panayiotis Alefragis and Nikolaos Voros, "Exploration of Logic-Based Benders Decomposition Approach for Mapping Applications on Heterogeneous Multi-Core Platforms", Multi-disciplinary scheduling International Conference (MISTA 2017), December 5th - 8th, Kuala Lumpur, Malaysia, 2017
- CP41. K. Antonopoulos, Ch. Petropoulos, Ch. P. Antonopoulos, N. S. Voros, "Security Data Management Process and its Impact on Smart Cities' Wireless Sensor Networks", IEEE South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference, September 23rd - 25th, Kastoria, Greece, 2017
- CP42. Alexandros Spournias, Theodore Skandamis, Christos P. Antonopoulos, Nikolaos S. Voros, "Door Detection Algorithm Development Based on Robotic Vision and Experimental Evaluation on Prominent Embedded Systems", 19th International Conference on Speech and Computer (SPECOM 2017), September 12-16, Hertfordshire, United Kingdom, 2017
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- BC27. Kari Tiensyrjä, Miroslav Cupak, Kostas Masselos, Marko Pettissalo, Konstantinos Potamianos, Yang Qu, Luc Rynders, Geert Vanmeerbeeck, Nikos Voros, Yan Zhang, "SystemC and OCAPI-xl Based System-Level Design for Reconfigurable Systems-on-Chip", *Advances in Design and Specification Languages for Systems-on-Chip*, ISBN: 978-0-387-26149-2, pp. 255-269, Springer, 2005
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- BC29. N. S. Voros, "PUSSEE method in practice: Specification and design of an embedded telecom system based on HIPERLAN/2 protocol", *UML-B Specification for Proven Embedded Systems Design*, ISBN: 1-4020-2866-0, pp. 279-292, Springer, 2004
- BC30. N. S. Voros, C. Snook, S. Hallertsede, T. Lecomte, "Embedded system design using PUSSEE method: An overview", *UML-B Specification for Proven Embedded Systems Design*, ISBN: 1-4020-2866-0, pp. 37-51, Springer, 2004
- BC31. N. S. Voros, W. Mueller, C. Snook, "An introduction to formal methods: How do they apply in embedded system design?", *UML-B Specification for Proven Embedded Systems Design*, ISBN: 1-4020-2866-0, pp. 1-20, Springer, 2004
- BC32. N. S. Voros, "Example of using the System Design Conceptual Model", *System Level Design Model with re-Use of System IP*, ISBN: 1-4020-7594-4, pp. 101-114, Kluwer Academic Publishers, 2003.
- BC33. N. S. Voros, "System design reuse", *System Level Design Model with re-Use of System IP*, ISBN: 1-4020-7594-4, pp. 79-99, Kluwer Academic Publishers, 2003.
- BC34. K. Kronlöf, N. S. Voros, "System design practices in industry today", *System Level Design Model with re-Use of System IP*, ISBN: 1-4020-7594-4, pp. 5-12, Kluwer Academic Publishers, 2003.

International Books

- IB1. "RADIO – Robots in Assisted Living: Unobtrusive, efficient, reliable and modular solutions for independent ageing", Vaggelis Karkaletsis, Stasinios Konstantopoulos, Nikolaos S. Voros, Roberta Annicchiarico, Maria Dagioglou, Christos Antonopoulos (Editors), Springer, 2018
- IB2. "Applied Reconfigurable Computing: *Architectures, Tools, and Applications*", Nikolaos Voros, Michael Huebner, Georgios Keramidas, Diana Goehringer, Christos Antonopoulos, Pedro C. Diniz (Editors), Lecture Notes in Computer Science 10824, Springer, ISBN: 978-3-319-78889-0 ISBN (eBook) 978-3-319-78890-6, 2018
- IB3. "Advances in Aeronautical Informatics: Technologies Towards Flight 4.0", Umut Durak, Jurgen Becker, Sven Hartmann, Nikolaos S. Voros (Editors), Springer, ISBN: 978-3-319-75057-6, 2018

- IB4. "Components and Services for IoT Platforms: *Paving the Way for IoT Standards*", G. Keramidas, N. Voros, M. Huebner (Editors), ISBN: 978-3-319-42302-9, Springer, 2016
- IB5. "Cyberphysical Systems for Epilepsy and Related Brain Disorders: Multi-parametric Monitoring and Analysis for Diagnosis and Optimal Disease Management", N. Voros, Ch. Antonopoulos (Editors), ISBN: 978-3-319-20048-4, Springer, 2015
- IB6. "ISVLSI 2010 Annual Symposium: Selected Papers", N. Voros, A. Mukherjee, N. Sklavos, K. Masselos, M. Huebner (Editors), ISBN 978-94-007-1487-8, Springer, 2011
- IB7. "Dynamic System Reconfiguration in Heterogeneous Platforms", N. Voros, A. Rosti, M. Hübner (Editors), ISBN-978-90-481-2426-8, Springer, 2009
- IB8. "System Level Design of Reconfigurable Systems-on-Chip", N. Voros, K. Masselos (Editors), ISBN: 0-387-26103-6, Springer, 2005
- IB9. System Level Design Model with re-Use of System IP", P. Cavalloro, C. Gendarme, K. Kronlöf, J. Mermet, J. van Sas, K. Tiensyrjä, N. Voros (Editors), ISBN: 1-4020-7594-4, Kluwer Academic Publishers, 2003

Books in Greek Language

- GB1. E. Φιλιππάτος, N. Βώρος, "Πρακτικά Θέματα Ενσωματωμένων Συστημάτων: Ασκήσεις προγραμματισμού μικροελεγκτή με επεξεργαστή ARM", ISBN: 978-960-578-002-9, Εκδόσεις Νέων Τεχνολογιών, 2014
- GB2. A. Βώρος, N. Βώρος, "Unified Modelling Language: Βασικές Αρχές Αντικειμενοστρεφούς Σχεδίασης Συστημάτων και Εφαρμογών", ISBN: 978-960-6759-31-4, Εκδόσεις Νέων Τεχνολογιών, 2009
- GB3. N. Βώρος, "Σχεδιασμός συστημάτων με τη γλώσσα SDL", ISBN: 978-960-6759-24-6, Εκδόσεις Νέων Τεχνολογιών, 2009

Book Translations in Greek Language

- BT1. A. Aho, M. Lam, R. Sethi, J. Ullman, "Compilers: Principles, Techniques and Tools", Pearson Education, 2007, Ελληνική Μετάφραση: "Μεταγλωττιστές: Βασικές Αρχές, Τεχνικές και Εργαλεία", Εκδόσεις Νέων Τεχνολογιών, 2009
- BT2. Wayne Wolf, "Computers as Components: Principles of Embedded Computer Systems", Elsevier, 2005, Ελληνική Μετάφραση: "Οι υπολογιστές ως συστατικά στοιχεία: Βασικές Αρχές Σχεδίασης Ενσωματωμένων Συστημάτων", Εκδόσεις Νέων Τεχνολογιών, 2007
- BT3. David Avison, Guy Fitzgerald, "Information Systems Development – Methodologies, Techniques and Tools", McGraw Hill, 2005, Ελληνική Μετάφραση: "Προηγμένα Πληροφοριακά Συστήματα: Από τη θεωρία στην πράξη (Τόμος Α)", Εκδόσεις Νέων Τεχνολογιών, 2006
- BT4. David Avison, Guy Fitzgerald, "Information Systems Development – Methodologies, Techniques and Tools", McGraw Hill, 2005, Ελληνική Μετάφραση: "Ανάπτυξη Προηγμένων Πληροφοριακών Συστημάτων: Μεθοδολογίες και Εργαλεία (Τόμος Β)", Εκδόσεις Νέων Τεχνολογιών, 2006

Organization of International Conferences

General Co-Chair

ARC 2018, the 14th International Symposium on Applied Reconfigurable Computing, 2 - 4 May 2018, Santorini, Greece

<http://arc1018.esda-lab.cied.teiwest.gr>

General Chair

IEEE Annual Symposium on VLSI, July 5th – 7th 2010, Lixouri, Kefallonia, Greece

<http://isvlsi2010.tesyd.teimes.gr>

Program Co-Chair

IEEE Computer Society Annual Symposium on VLSI, July 3-5, 2017, Bochum, German

<http://www.isvlsi.org>

Program Co-Chair

24th Field Programmable Logic and Applications (FPL), September 2nd – 4th 2014, Munich, Germany

<http://www.fpl2014.org/>

Program Chair

7th IEEE International Conference on Reconfigurable Communication-centric Systems on Chip, July 9th – 11th 2012, York, United Kingdom
<http://www.recosoc.org/>

Evaluator of Research Programs

EU Funded Research Programs

- ARTEMIS JU Call, 2009
- FP7, IST Call 1, Objective ICT-2007.3.3: Embedded Systems Design, 2007
- FP7, IST Call 2, Challenge 7.2: Accessible and Inclusive ICT, 2007
- FP6, IST Call 6, Strategic Objective 2.6.2: Ambient Assisted Living (AAL), 2006
- FP6, IST Call 5, Strategic Objective 2.5.3: Embedded Systems, 2005

Nationally Funded Research Programs

- HERAKLITOS II, Ministry of Education and Religion Affairs, Telecommunication Systems, 2009
- Information Society, «WIRELESS HOTSPOTS», 2006
- PENED 2003, General Secretariat on Research Technology, Information and Communication Technologies, 2005

Research Programs

Horizon Europe Funded Projects

METACITIES (2023 – 2027): Meta Cities Excellence Hub in South-Eastern, European Commission Funding: 4,9 MEuros, <http://www.metacities-project.eu>

Horizon 2020 Funded Projects

XANDAR (2020 – 2023): X-by-Construction Design framework for Engineering Autonomous & Distributed Real-time Embedded Software Systems, European Commission Funding: 4,9 MEuros, <http://www.xandar-project.eu>

My Role

- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory

SMART4ALL (2020 – 2024): Selfsustained cross-border customized cyberphysical system experiments for capacity building among European stakeholders, European Commission Funding: 8,6 MEuros, <http://www.smart4all-project.eu>

My Role

- Project coordinator

CPSoSaware (2020 – 2023): Cross-layer cognitive optimization tools & methods for the lifecycle support of dependable CPSoS, European Commission Funding: 4,9 MEuros, <http://www.cpsosaware.eu>

My Role

- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory

ARGO (2016 – 2019): WCET Aware Parallelization of Model-Based Applications for Heterogeneous Parallel Systems, European Commission Funding: 3,9 MEuros, <http://www.argo-project.eu>

My Role

- Scientific Coordinator of ARGO Consortium
- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory

RADIO (2015 – 2018): *Robots in assisted living environments: Unobtrusive, efficient, reliable and modular solutions for independent ageing*, European Commission Funding: 3,8 MEuros, <http://www.radio-project.eu>

My Role

- Technical Coordinator of RADIO Consortium
- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory

FP7 Funded Projects

ALMA (2011 – 2015): *Architecture oriented parallelization for high performance embedded Multicore systems using scilAb*, European Commission Funding: 3,2 MEuros, <http://www.alma-project.eu>

My Role

- Scientific Coordinator of ALMA Consortium
- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory

ARMOR (2011 – 2015): *Advanced multi-parametric Monitoring and analysis for diagnosis and Optimal management of epilepsy and Related brain disorders*, European Commission Funding: 3,18 MEuros, <http://armor.esda-lab.cied.teiwest.gr>

My Role

- Technical Coordinator of ARMOR Consortium
- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory

IKYDA Funded Projects

IMAGINE (2015 - 2016): *End-to-End Analysis and Optimization of Algorithms running on Internet of Things (IoT) infrastructure*, DAAD/IKY Funding: 5.000 Euros

My Role

- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory

2011 – 2012: *Virtualization of reconfigurable heterogeneous high-performance hardware/software systems*, DAAD/IKY Funding: 5.000 Euros

My Role

- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory

National Projects

PLAN-V (2020 - 2022): *A Speech and Language Therapy Platform with Virtual Agent*, National Strategic Reference Framework 2014 – 2020 Funding: 946.133,48 Euros, Ministry of Economy Development & Tourism

My Role

- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory

EQUAL (2018 - 2021): *DEveloping autonomous cart eQUIPMENT and associated services for sUPporting people with moving disABiLities in super markets*, National Strategic Reference Framework 2014 – 2020 Funding: 986.850 Euros, Ministry of Economy Development & Tourism

My Role

- Scientific Coordinator of EQUAL Consortium
- Scientific Coordinator of the team of the team of Embedded System Design and Application Laboratory