

## Publications

Nikolaos Voros  
*Associate Professor*

Total publications: **154**

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### 2022 (11)

- Evanthia Faliagka, Christos Panagiotou, Christos Antonopoulos, Georgios Keramidas, Nikolaos Voros, *A Novel Marketplace Perspective Promoting Customized Low Energy Computing and IoT: The SMART4ALL Approach*, **IEEE Annual Symposium on ISVLSI**, July 4th – 6th, Pafos, Cyprus, 2022
- Tobias Dorr, 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*, **IEEE Annual Symposium on ISVLSI**, July 4th – 6th, Pafos, Cyprus, 2022
- Konstantinos Antonopoulos, Dimitris Karadimas, Alexandros Spournias, Christos Panagiotou, Ignantios Fotiou, Ioannis Symeonidis, Christos Antonopoulos, Michael Hubner, Nikolaos Voros, *A distributed Embedded Systems IoT platform and Associated services Supporting Shopping Cart for Disabled People*, **35th Symposium on Integrated Circuits and Systems Design**, August 22nd – 26th, Rio Grande do Sul state, Brazil, 2022
- Fahad Siddiqui, Rafiullah Khan, Sakir Sezer, Kieran McLaughlin, Vahid Garousi, Leonard Masing, Tobias Dorr, Florian Schade, Jürgen 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 Conference (VTC2022)**, 19th – 22nd June, Helsinki, Finland, 2022
- Evanthia Faliagka, Christos Panagiotou, Konstantinos Antonopoulos, Vasileios Stavropoulos, Dimitris Karadimas, Georgios Keramidas, Christos Antonopoulos, Nikolaos Voros, *An architecture for handling heterogeneous services in a speech and language therapy platform*, **11th Mediterranean Conference on Embedded Computing (MECO)**, June 7th – 10th, Budva, Montenegro, 2022
- 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

- Konstantinos Antonopoulos, Dimitrios Ringas, Eleni Christopoulou, Georgios Keramidas, Christos P. Antonopoulos, Nikolaos 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) (IEEE MeditCom 2022)**, Athens, Greece, 2022
- Nikos Petrellis, Christos Antonopoulos, Georgios Keramidas, 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**, [Link to Article](#), 2022
- 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**, [Link to Article](#), 2022
- 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, Patras, Greece, 2022
- Konstantinos Antonopoulos, Dimitrios Ringas, Eleni Christopoulou, Georgios Keramidas, Christos Antonopoulos and Nikolaos Voros, *NS3SaaS: Cloud-based Network Simulator as a Service leveraging customisable resource scheduling*, **IEEE International Conference on Cloud Networking**, 7th – 10th November 2022, Paris, France, 2022

## 2021 (13)

- 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*, **Euromicro Conference on Digital System Design (DSD)**, September 1st – 3rd 2021, Palermo, Spain, 2021
- 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*, **31st International Conference on Field-Programmable Logic and Applications (FPL)**, August 30th – September 3rd 2021, Dresden, Germany, 2021
- 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*, **31st International Conference on Field-Programmable Logic and Applications (FPL)**, August 30th – September 3rd 2021, Dresden, Germany, 2021
- A. Spournias, E. Faliagka, C. Antonopoulos, G. Keramidas and N. Voros, *Social Distance Monitoring using AI techniques in AAL environments*, **IEEE International Conference on Smart Internet of Things (SmartIoT)**, August 13th – 15th 2021, Jeju Island, South Korea, 2021
- Liapis A., Faliagka E., Katsanos C., Antonopoulos C., Voros N, *Detection of Subtle Stress Episodes During UX Evaluation: Assessing the Performance of the WESAD Bio-Signals*

*Dataset, Human-Computer Interaction* □ **INTERACT 2021, Lecture Notes in Computer Science, vol 12934. Springer, Cham**, August 30th □ September 3rd 2021, Bari, Italy, 2021

- Alexandros Spournias, Panagiotis Bountas, Evanthia Faliagka, Dimitris Kontargiris, Christos Antonopoulos, Georgios Keramidas, Nikolaos S. Voros, *Smart health monitoring using AI techniques in AAL environments*, **10th Mediterranean Conference on Embedded Computing (MECO)**, June 7th □ 10th 2021, Budva, Montenegro, 2021
- Panagiotis Mousouliotis, Stavros Zogas, Panagiotis Christakos, Georzios Keramidas, Nikos Petrellis, Christos Antonopoulos, Nikolaos Voros, *Exploiting Vitis Framework for Accelerating Sobel Algorithm*, **10th Mediterranean Conference on Embedded Computing (MECO)**, June 7th □ 10th, 2021, Budva, Montenegro, 2021
- Vasilios Kelefouras, Karim Djemame, Georgios Keramidas, and Nikolaos Voros, *An analytical model for loop tiling transformation*, **International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulation (SAMOS 2021)**, July 4 □ 8, Samos, Greece, 2021
- K. Antonopoulos, C. Panagiwtou, C. Antonopoulos, N. Voros, G. Keramidas, *Characterization of WiFi Modules Using an Open-Source Network Simulator*, **6th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)**, September 24th □ 26th 2021, Preveza, Greece, 2021
- V. Argyros, E. Christopoulou, C. Panagiotou, K. Antonopoulos, C. Antonopoulos and N. Voros, *A Mobile Application for a Smart Home Ecosystem*, **South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)**, 24th □ 26th 2021, Preveza, Greece, 2021
- S. T. Mavrikis, C. P. Antonopoulos, N. S. Voros and G. Keramidas, *Comparative evaluation of computer vision technologies, targeting object identification and localization scenarios*, **6th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)**, September 24th □ 26th, 2021, Preveza, Greece, 2021
- N. Petrellis, P. Christakos, S. Zogas, P. Mousouliotis, G. Keramidas, N. Voros, C. Antonopoulos, *Challenges Towards Hardware Acceleration of the Deformable Shape Tracking Application*, **IEEE VLSI SoC Conference**, October 4th □ 8th 2021, Singapore, 2021
- N. Petrellis, S. Zogas, P. Christakos, P. Mousouliotis, G. Keramidas, N. Voros, C. Antonopoulos, *Software Acceleration of the Deformable Shape Tracking Application*, **2nd Symposium on Pattern Recognition and Applications, ACM**, November 19th -21st 2021, Larissa, Greece, 2021

## 2020 (6)

- 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*, **PCI 2020: 24th Pan-Hellenic Conference on Informatics**, November 20th □ 22th Athens, Greece, 2020
- 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**, [Link to Article](#), IEEE, 2020

- 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*, **IEEE Annual Symposium on ISVLSI**, July 6th – 8th, Limassol, Cyprus, 2020
- 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*, **IEEE Annual Symposium on ISVLSI**, July 6th – 8th, Limassol, Cyprus, 2020
- 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**, 8th – 11th June, Budva, Montenegro, 2020
- Alexandros Spournias, Georgios Keramidas, Christos Antonopoulos, Nikolaos Voros, Radovan Stojanovic, *Enhancing visual recognition for door status identification in AAL robots via machine learning*, **9th Mediterranean Conference on Embedded Computing**, 8th – 11th June, Budva, Montenegro, 2020

## 2019 (7)

- 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, 2019
- 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, 2019
- 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, 2019
- 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**, 21 – 23 October, Barcelona, Spain, 2019
- 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**, [Link to Article](#), IEEE, 2019
- 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, [Link to Article](#), JAIS, 2019
- Christos P. Antonopoulos, Konstantinos Antonopoulos, Christos Panagiotou, Nikolaos S.

## 2018 (16)

- 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**, February 20th - 22nd, Lyon, France, 2018
- 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**, February 20th - 22nd, Lyon, France, 2018
- Umut Durak, Jurgen Becker, Sven Hartmann, Nikolaos S. Voros, *Advances in Aeronautical Informatics: Technologies Towards Flight 4.0*, , Springer, 2018
- Panayiotis Alefragis, George Theodoridis, Merkourios Katsimpris, Christos Valouxis, Christos Gogos, George Goulas, Nikolaos S. Voros, *Mapping and scheduling hard real-time applications on multicore systems - The ARGO approach*, **14th International Symposium on Applied Reconfigurable Computing**, 700 - 711, May 2nd - 4th, Santorini Island, Greece, 2018
- 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*, **14th International Symposium on Applied Reconfigurable Computing**, 712 - 723, May 2nd - 4th, Santorini Island, Greece, 2018
- Ch. P. Antonopoulos, K. Antonopoulos, Ch. Panagiotou, N. S. Voros, *Tackling Wireless Sensor Network Heterogeneity Through Novel Reconfigurable Gateway Approach*, **14th International Symposium on Applied Reconfigurable Computing**, 269 - 280, May 2nd - 4th, Santorini Island, Greece, 2018
- Nikolaos Voros, Michael Huebner, Georgios Keramidas, Diana Goehringer, Christos Antonopoulos, Pedro C. Diniz, *Applied Reconfigurable Computing: Architectures, Tools, and Applications*, , Springer, 2018
- Vaggelis Karkaletsis, , Stasinou Konstantopoulos, Nikolaos Voros, Roberta Annicchiarico, Maria Dagioglou, Christos Antonopoulos, *RADIO - Robots in Assisted Living: Unobtrusive, Efficient, Reliable and Modular Solutions for Independent Ageing*, , Springer, 2018
- 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
- Vangelis Karkaletsis, Stasinou Konstantopoulos, Nikolaos S. Voros, *Introduction to the RADIO Project*, **RADIO -- Robots in Assisted Living**, 1 - 4, Springer, 2018
- Christos P. Antonopoulos, Christos Panagiotou, Konstantinos Antonopoulos, Alexandros Spournias, Nikolaos Voros, Fynn Schwiegelshohn, Philipp Wehner, Michael Huebner, Diana Göhringer, Raquel Ventura, Alberto Fernández, Georgios Stavrinou, Evangelinos Mariatos, *Integrating Robots and WSN: communications and interfacing aspects*, **RADIO --**

## **Robots in Assisted Living**, 47 - 82, Springer, 2018

- Georgios Keramidas, Christos Antonopoulos, Nikolaos S. Voros, Fynn Schwiegelshohn, Philipp Wehner, Michael Huebner, Diana Göhringer, Evaggelinos Mariatos, *Accelerating AAL Home Services using Embedded Hardware Components*, **RADIO -- Robots in Assisted Living**, 91 - 112, Springer, 2018
- Maria Rigou, Spiros Sirmakessis, Raquel Ventura, Alberto Fernández, Christos P. Antonopoulos, Nikolaos Voros, *Designing User Interfaces for Elderly*, **RADIO -- Robots in Assisted Living**, 113 - 148, Springer, 2018
- 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
- Andreas Emeretlis, Theodore Tsakoulis, George Theodoridis, Panayiotis Alefragis, and Nikolaos Voros, *Task graph mapping and scheduling on heterogeneous architectures under communication constraints*, **Proceedings of the International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulation (SAMOS 2017)**, July 17 - 20, Samos, Greece, 2018
- 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**, [Link to Article](#), ACM, 2018

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- Steven Derrien, Isabelle Puaut, Panayiotis Alefragis, Marcus Bednara, Harald Bucher, Clément David, Yann Debray, Umut Durak, Imen Fassi, Christian Ferdinand, Damien Hardy, Angeliki Kritikakou, Gerard Rauwerda, Simon Reder, Martin Sicks, Timo Stripf, Kim Sunesen, Timon ter Braak, Nikolaos Voros and Jürgen Becker, *WCET-Aware Parallelization of Model-Based Applications for Multicores: the ARGO Approach*, **Conference on Design, Automation and Test in Europe (DATE)**, March 27th - 31st, Lausanne, Switzerland, 2017
- Vasilios Kelefouras, Georgios Keramidas, Nikolaos Voros, *Cache partitioning + loop tiling: A methodology for effective shared cache management*, **IEEE Computer Society Annual Symposium on VLSI**, July 3rd - 5th, Bochum, Germany, 2017
- Georgios Keramidas, Nikolaos Voros, Christos Antonopoulos, Fynn Schwiegelshohn, Philipp Wehner, Diana Göhringer, Evaggelinos Mariatos, *Profile-driven Power Optimizations for AAL Robots: Maximizing Robots Idle Time by Offloading Monitoring Workload to Dedicated Hardware Components*, **IEEE Computer Society Annual Symposium on VLSI**, July 3rd - 5th, Bochum, Germany, 2017
- 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 12th - 16th, Hertfordshire, United Kingdom, 2017
- K. Antonopoulos, Ch. Petropoulos, Ch. P. Antonopoulos, N. S. Voros, *Security Necessity 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

- 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
- 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**, [Link to Article](#), MDPI AG, 2017

## 2016 (14)

- Andreas Emeretlis, George Theodoridis, Panayiotis Alefragis, Nikolaos Voros, *Improvements of a hybrid ILP-CP Benders decomposition for mapping and scheduling task DAGs on heterogeneous architectures*, **Proceedings of 11th Practice and Theory of Automated Timetabling (PATAT 2016)**, August 23th - 26th, Udine, Italy, 2016
- 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**, [Link to Article](#), Elsevier, 2016
- Evangelinos Mariatos, Christos P. Antonopoulos, Nikolaos S. Voros, *EEG Feature Extraction Accelerator Enabling Long Term Epilepsy Monitoring based on Ultra Low Power WSNs*, **12th International Symposium on Applied Reconfigurable Computing (ARC)**, March 22nd - 4th, Mangaratiba, Rio de Janeiro, Brazil, Springer, 2016
- Georgios Keramidas, Christos Antonopoulos, Nikolaos S. Voros, Fynn Schwiegelshohn, Philipp Wehner, Jens Rettkowski, Diana Göhringer, Michael Hübner, Stasinou Konstantopoulos, Theodore Giannakopoulos, Vangelis Karkaletsis and Vaggelis Mariatos, *Computation and Communication Challenges to Deploy Robots in Assisted Living Environments*, **Conference on Design, Automation and Test in Europe (DATE)**, March 14st - 16th, Dresden, Germany, 2016
- Christos Antonopoulos, Nikolaos Voros, Konstantinos Antonopoulos, Christos Petropoulos, George Krikis, *On Security Provision in Demanding Cyberphysical Bluetooth based Systems*, **Proceedings of IEEE South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (IEEE SEEDA-CECNSM 2016)**, September 25th - 27th, Kastoria, Greece, 2016
- A. Emeretlis, G. Theodoridis, P. Alefragis, N. Voros, *A Hybrid Approach for Mapping and Scheduling on Heterogeneous Multicore Systems*, **4th Workshop on Virtual Prototyping of Parallel and Embedded Systems (ViPES 2016)**, July 17th, Samos Island, Greece, 2016
- Apostolos Fournaris, Georgios Keramidas, Kyriakos Ispoglou and Nikolaos Voros, *VirISA: Recruiting Virtualization and Reconfigurable Processor ISA for Malicious Code Injection Protection*, **Components and Services for IoT Platforms: Paving the Way for IoT Standards**, 119-132, Springer, 2016
- Christos Panagiotou, Christos Antonopoulos, Georgios Keramidas, Nikolaos Voros and Michael Hübner, *IoT in Ambient Assistant Living Environments: A View from Europe*, **Components and Services for IoT Platforms: Paving the Way for IoT Standards**, 281-298, Springer, 2016
- Konstantinos Christopoulos, Christos Antonopoulos, Nikolaos Voros and Theofanis

Orphanoudakis, *Building Automation Systems in the World of Internet of Things*,  
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- Georgios Keramidas, Nikolaos Voros, Michael Hübner, *Components and Services for IoT Platforms: Paving the Way for IoT Standards*, , Springer, 2016
- Kostantinos Christopoulos, Alexandros Spournias, Theofanis Orfanoudakis, Christos Antonopoulos, Nikolaos Voros, *Designing the Next Generation of Home Automation Combining IoT and Robotic Technologies*, **20th Panhellenic Conference on Informatics**, November 10th - 12th, Patra, Greece, 2016
- Umut Durak, David Müller, Jürgen Becker, Nikolaos S. Voros, Panayiotis Alefragis, Timo Stripf, Pierre Aimé Agnel, Gerard Rauwerda, Kim Sunesen, *Model-based Development of Enhanced Ground Proximity Warning System for Heterogeneous Multicore Architectures*, **23rd Symposium on Simulation Techniques (ASIM 2016), Special Interest Track Modelling and Simulation in Aviation**, September 7th - 9th, Dresden, Germany, 2016
- Christos P. Antonopoulos, Nikolaos S. Voros, *Resource Efficient Data Compression Algorithms for Demanding, WSN based Biomedical Applications*, **Journal of Biomedical Informatics**, [Link to Article](#), Elsevier, 2016
- Andreas Emeretlis, George Theodoridis, Panayiotis Alefragis, Nikolaos Voros, *A Logic-Benders Decomposition Approach for Mapping Applications on Heterogeneous Multicore Platforms*, **ACM Transactions on Embedding Computing Systems**, [Link to Article](#), ACM, 2016

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- Fynn Schwiegelshohn, Philipp Wehner, Jens Rettkowski, Diana Göhringer, Michael Hübner, Georgios Keramidas, Christos Antonopoulos, Nikolaos S. Voros, *A Holistic Approach for Advancing Robots in Ambient Assisted Living Environments*, **Proceedings of 13th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC 2015)**, pp. 140 - 147, October 21st - 23th, Porto, Portugal, 2015
- Nikolaos S. Voros, Christos Antonopoulos, *Cyberphysical Systems for Epilepsy and Related Brain Disorders: Multi-parametric Monitoring and Analysis for Diagnosis and Optimal Disease Management*, , Springer, 2015
- Christos Antonopoulos, Georgios Keramidas, Nikolaos S. Voros, Michael Huebner, Diana Goehringer, Maria Dagioglou, Theodore Giannakopoulos, Stasinios Konstantopoulos, Vangelis Karkaletsis, *Robots in assisted living environments as an unobtrusive, efficient, reliable and modular solution for independent ageing: The RADIO perspective*, **Proceedings of 11th International Symposium on Applied Reconfigurable Computing (ARC 2015)**, April 13th - 17th, Bochum, Germany, Springer LNCS 9040, pp. 535 - 546, 2015
- Ch. P. Antonopoulos, Th. Panagiotakopoulos, Ch. Panagiotou, G. Touliatos, 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**, [Link to Article](#), ICST, 2015
- A. Emeretlis, G. Theodoridis, P. Alefragis, N. S. Voros, *Mapping DAGs on Heterogeneous Platform using Logic-Based Benders Decomposition*, **Proceedings of IEEE Annual Symposium on ISVLSI**, pp. 119 - 124, July 8th - 10th, Montpellier, France, 2015
- Nikolaos S. Voros, Christos Antonopoulos, Michalis Koutroumanidis, George K. Kostopoulos, Andreas Ioannidis, *Introduction to ARMOR Project*, **Cyberphysical Systems for Epilepsy**



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- Nikolaos S. Voros, Christos Antonopoulos, *Data Management Processes*, **Cyberphysical Systems for Epilepsy and Related Brain Disorders**, 111-126, Springer, 2015
- Stefan Hey, Panagiota Anastasopoulou, André Bideaux, Christos Antonopoulos, Nikolaos S. Voros, Alberto Fernandez, Vasilis Megalookonomou, Arthur Krukowski, *System Architecture*, **Cyberphysical Systems for Epilepsy and Related Brain Disorders**, 127-136, Springer, 2015
- Stefan Hey, Panagiota Anastasopoulou, André Bideaux, Christos Antonopoulos, Nikolaos S. Voros, Marc Richardson, *Mobile Sensors for multiparametric monitoring in epileptic patients*, **Cyberphysical Systems for Epilepsy and Related Brain Disorders**, 127-162, Springer, 2015
- Christos Antonopoulos, Nikolaos S. Voros, *Secure and Efficient WSN Communication infrastructure*, **Cyberphysical Systems for Epilepsy and Related Brain Disorders**, 163-188, Springer, 2015
- André Bideaux, Stefan Hey, Panagiota Anastasopoulou, Alberto Fernandez, Christos Antonopoulos, Nikolaos S. Voros, *System Middleware*, **Cyberphysical Systems for Epilepsy and Related Brain Disorders**, 189-204, Springer, 2015

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- Juergen Becker, Thomas Bruckschloegl, Oliver Oey, Timo Stripf, George Goulas, Nick Raptis, Christos Valouxis, Panayiotis Alefragis, Nikolaos S. Voros, Christos Gogos, *Profile Guided Compilation of Scilab Algorithms for Multiprocessor Systems*, **Reconfigurable Computing: Architectures, Tools, and Applications 10th International Symposium on Applied Reconfigurable Computing (ARC 2014)**, pp. 330-336, Vilamoura, Algarve, April 14th - 16th, Portugal, Springer, Lecture Notes in Computer Science, 2014
- T. Panagiotakopoulos, C. Antonopoulos, G. Koutalieris, P. Kalantzis, C. Theodoropoulos, G. Koumanakos, A. Kameas, N. Voros, S. Koubias, *ADVENT: A System Architecture for Advanced Monitoring of Elders with Chronic Conditions*, **Proceedings of the 7th International Conference on Pervasive Technologies Related to Assistive Environments (PETRA 2014)**, Rhodes, May 27th - 30th, Greece, 2014
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