

# PUBLICATIONS, PROJECTS AND CITATIONS

## A. List of Publications

1. Teodor-Adrian Radescu, **Arpad Gellert**, *Fog Detection through Image Processing Methods*, International Journal of Advanced Statistics and IT&C for Economics and Life Sciences, Vol. 13, Issue 1, ISSN 2559-365X (indexed PKP, ROAD, SCIENDO, EBSCO), DOI 10.2478/ijasitels-2023-0004, pp. 28-37, December 2023.
2. Claudiu-Raul Buduleci, **Arpad Gellert**, Adrian Florea, *Selective High-Latency Arithmetic Instruction Reuse in Multicore Processors*, The 27<sup>th</sup> International Conference on System Theory, Control and Computing (ICSTCC), ISBN 979-8-3503-3798-3 (indexed DBLP), Timisoara, October 2023.
3. Stefan-Alexandru Precup, Snehal Walunj, **Arpad Gellert**, Christiane Plociennik, Jibinraj Antony, Constantin-Bala Zamfirescu, Martin Ruskowski, *Recognising Worker Intentions by Assembly Step Prediction*, 28th International Conference on Emerging Technologies and Factory Automation (ETFAs), ISBN 979-8-3503-3990-1 (indexed Scopus, DBLP), Sinaia, September 2023.
4. Stefan-Alexandru Precup, Alexandru Matei, Snehal Walunj, **Arpad Gellert**, Christiane Plociennik, Constantin-Bala Zamfirescu, *Collaborative exploitation of various AI methods in adaptive assembly assistance systems*, Procedia Computer Science, Elsevier, Vol. 221, ISSN 1877-0509 (indexed Scopus), pp. 1170-1177, August 2023.
5. Alexandru Matei, Stefan-Alexandru Precup, Dragos Circa, **Arpad Gellert**, Constantin-Bala Zamfirescu, *Estimating Travel Time for Autonomous Mobile Robots through Long Short-Term Memory*, Mathematics, Vol. 11, Issue 7, ISSN 2227-7390 (ISI Thomson Journals **IF=2.592**, Scopus), DOI 10.3390/math11071723, p. 1723, April 2023.
6. **Árpád Gellért**, *Prediction-Based Modeling and Estimation in Advanced Computing Systems*, Habilitation Thesis, "Lucian Blaga" University of Sibiu, March 2023.
7. Lorena M. Olaru, **Arpad Gellert**, Ugo Fiore, Francesco Palmieri, *Electricity Production and Consumption Modeling through Fuzzy Logic*, International Journal of Intelligent Systems, Vol. 37, Issue 11, ISSN 0884-8173 (ISI Thomson Journals **IF=8.993**, DBLP, Scopus), DOI 10.1002/int.22942, pp. 8348-8364, November 2022.
8. **Arpad Gellert**, Stefan-Alexandru Precup, Alexandru Matei, Bogdan-Constantin Pirvu, Constantin-Bala Zamfirescu, *Real-Time Assembly Support System with Hidden Markov Model and Hybrid Extensions*, Mathematics, Vol. 10, Issue 15, ISSN 2227-7390 (ISI Thomson Journals **IF=2.592**, Scopus), DOI 10.3390/math10152725, p. 2725, August 2022.
9. **Arpad Gellert**, Darius Sarbu, Stefan-Alexandru Precup, Alexandru Matei, Dragos Circa, Constantin-Bala Zamfirescu, *Estimation of Missing LiDAR Data for Accurate AGV Localization*, IEEE Access, Vol. 10, ISSN 2169-3536 (ISI Thomson Journals **IF=3.367**, DBLP, Scopus), DOI 10.1109/ACCESS.2022.3185763, pp. 68416-68428, June 2022.
10. Claudiu Buduleci, **Arpad Gellert**, Adrian Florea, Alexandru Matei, *Extending Sniper with Support to Access Operand Values: A Case Study on Reusability Measurement*, 23rd International Carpathian Control Conference, ISBN 978-1-6654-6636-3 (indexed ISI, Scopus), pp. 70-75, Sinaia, May 2022.

11. Stefan-Alexandru Precup, **Arpad Gellert**, Alexandru Matei, Maria Gita, Constantin-Bala Zamfirescu, *Towards an Assembly Support System with Dynamic Bayesian Network*, Applied Sciences, Vol. 12, Issue 3, ISSN 2076-3417 (ISI Thomson Journals IF=2.474, Scopus), DOI 10.3390/app12030985, p. 985, Switzerland, February 2022.
12. **Arpad Gellert**, Radu Sorostinean, Bogdan-Constantin Pirvu, *Robust Assembly Assistance Using Informed Tree Search with Markov Chains*, Sensors, Vol. 22, Issue 2, ISSN 1424-8220 (ISI Thomson Journals IF=3.275, Scopus, DBLP), DOI 10.3390/s22020495, p. 495, January 2022.
13. **Arpad Gellert**, Ugo Fiore, Adrian Florea, Radu Chis, Francesco Palmieri, *Forecasting Electricity Consumption and Production in Smart Homes through Statistical Methods*, Sustainable Cities and Society, Vol. 76, ISSN 2210-6707 (ISI Thomson Journals IF=7.587, Scopus), January 2022.
14. Constantin-Bălă Zamfirescu (coordonator), Alexandru Matei (editor), Vasile-Alexandru Butean, Dragoș Circa, Alin Marius Cruceat, **Arpad Gellert**, Teodor Ghețiu, Valentin Cătălin Govoreanu, Mihai Neghină, Răzvan Gabriel Pămărac, Radu Emanuil Petrusse, Bogdan-Constantin Pirvu, Livia Dana Pogan, Radu Ioan Popa, Ștefan Alexandru Precup, Samuel Pușcașu, Sergiu Gabriel Stanciu, Radu Traian Șoroștinean, Nicolae-Adrian Țocu, Radu-Alexandru Voju, *Ingineria sistemelor socio-fizico-cibernetice în sisteme de producție*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-1848-6, 2021.
15. Constantin-Bălă Zamfirescu (coordonator), Vasile-Alexandru Butean, Dragoș Circa, Alin Marius Cruceat, **Arpad Gellert**, Teodor Ghețiu, Valentin Cătălin Govoreanu, Alexandru Matei, Mihai Neghină, Bogdan-Constantin Pirvu, Ștefan Alexandru Precup, Samuel Pușcașu, Nicolae-Adrian Țocu, Radu-Alexandru Voju, *Studii de analiză a arhitecturilor, metodelor și tehnicilor de implementare a celei de-a patra revoluții tehnologice*, Editura Universității „Lucian Blaga” din Sibiu, ISBN 978-606-12-1847-9, 2021.
16. **Arpad Gellert**, Remus Brad, Daniel Morariu, Mihai Neghina, *Filtering Random Valued Impulse Noise from Grayscale Images through Support Vector Machine and Markov Chain*, International Journal of Advanced Statistics and IT&C for Economics and Life Sciences, Vol. 11, Issue 1, ISSN 2559-365X (indexed PKP, ROAD, SCIENDO, EBSCO), DOI 10.2478/ijasitels-2021-0004, pp. 70-84, December 2021.
17. Alexandru Matei, Nicolae-Adrian Tocu, Constantin-Bala Zamfirescu, **Arpad Gellert**, Mihai Neghina, *Engineering a Digital Twin for Manual Assembling*, Leveraging Applications of Formal Methods, Verification and Validation: Tools and Trends, ISoLA 2020, Lecture Notes in Computer Science, Vol. 12479, ISBN 978-3-030-83722-8, pp. 140-152, Springer, Cham, 2021.
18. **Arpad Gellert**, *Web Usage Mining by Neural Hybrid Prediction with Markov Chain Components*, Journal of Web Engineering, River Publishers, Vol. 20, Issue 5, ISSN 1540-9589 (ISI Thomson Journals IF= 0.396, DBLP), pp. 1279-1296, Denmark, July 2021.
19. Radu Sorostinean, **Arpad Gellert**, Bogdan-Constantin Pirvu, *Assembly Assistance System with Decision Trees and Ensemble Learning*, Sensors, Vol. 21, Issue 11, ISSN 1424-8220 (ISI Thomson Journals IF=3.275, Scopus, DBLP), DOI 10.3390/s21113580, p. 3580, May 2021.
20. Stefan-Alexandru Precup, **Arpad Gellert**, Alexandru Dorobantiu, Constantin-Bala Zamfirescu, *Assembly Process Modeling Through Long Short-Term Memory*, 13<sup>th</sup> Asian Conference on Intelligent Information and Database Systems, ISSN 1865-0929 (indexed DBLP), pp. 28-39, Phuket, Thailand, April 2021.

21. **Arpad Gellert**, Stefan-Alexandru Precup, Bogdan-Constantin Pirvu, Ugo Fiore, Constantin-Bala Zamfirescu, Francesco Palmieri, *An Empirical Evaluation of Prediction by Partial Matching in Assembly Assistance Systems*, Applied Sciences, Vol. 11, Issue 7, ISSN 2076-3417 (ISI Thomson Journals IF=2.474, Scopus), DOI 10.3390/app11073278, p. 3278, April 2021.
22. Miroslav-Andrei Bachici, **Arpad Gellert**, *Modeling Electricity Consumption and Production in Smart Homes using LSTM Networks*, International Journal of Advanced Statistics and IT&C for Economics and Life Sciences, Vol. X, No. 1, ISSN 2559-365X (indexed PKP, ROAD, SCIENDO), DOI 10.2478/ijasitels-2020-0009, pp. 80-90, December 2020.
23. **Arpad Gellert**, Remus Brad, *Image Inpainting with Markov Chains*, Signal, Image and Video Processing, Vol. 14, Issue 7, ISSN 1863-1703 (ISI Thomson Journals IF=1.794, Scopus, DBLP), DOI 10.1007/s11760-020-01675-7, pages 1335-1343, October 2020.
24. **Arpad Gellert**, Stefan-Alexandru Precup, Bogdan-Constantin Pirvu, Constantin-Bala Zamfirescu, *Prediction-Based Assembly Assistance System*, 25<sup>th</sup> International Conference on Emerging Technologies and Factory Automation (ETFA), ISBN 978-1-7281-8957-4, pages 1065-1068, Vienna, Austria, September 2020.
25. **Arpad Gellert**, Constantin-Bala Zamfirescu, *Assembly support systems with Markov predictors*, Journal of Decision Systems, ISSN 1246-0125 (indexed ISI, Scopus), DOI: 10.1080/12460125.2020.1788798, First online: July 2020.
26. Claudiu Buduleci, **Árpád Gellért**, Adrian Florea, Radu Chiş, Remus Brad, *Multi-Objective Optimization of Speculative and Anticipative Multi-Core Architectures*, Advanced Computer Architecture and Compilation for High-performance Embedded Systems, ISBN 9789078427001, pages 11-14, Fiuggi, Italy, July 2020.
27. Nicolae-Adrian Tocu, **Arpad Gellert**, Ioana-Ramona Stefan, Teodor-Marian Nitescu, Gabriela-Alexandra Luca, *The impact of virtual reality simulators in manufacturing industry*, 12<sup>th</sup> Annual International Conference on Education and New Learning Technologies, ISBN 978-84-09-17979-4, pages 3084-3093, Palma de Mallorca, Spain, July 2020.
28. **Arpad Gellert**, Constantin-Bala Zamfirescu, *Using Two-Level Context-Based Predictors for Assembly Assistance in Smart Factories*, Intelligent Methods in Computing, Communications and Control: 8<sup>th</sup> International Conference on Computers Communications and Control, Springer, ISBN 978-303-053-650-3 (indexed Scopus), pages 167-176, Oradea, May 2020.
29. **Árpád Gellért**, *Analiza și proiectarea algoritmilor: o abordare pragmatică prin aplicații Java*, Ediția a 2-a, Editura Techno Media, ISBN 978-606-616-360-6, 2019.
30. **Arpad Gellert**, Adrian Florea, Ugo Fiore, Francesco Palmieri, Paolo Zanetti, *A study on forecasting electricity production and consumption in smart cities and factories*, International Journal of Information Management, Elsevier, ISSN 0268-4012 (ISI Thomson Journals IF=5.063, Scopus, DBLP), Vol. 49, pages 546-556, December 2019.
31. **Arpad Gellert**, Maria Vintan, Lucian Vintan, *Perceptron-Based Selective Load Value Prediction in a Multicore Architecture*, Romanian Journal of Information Science and Technology, Vol. 22, No. 3-4, ISSN 1453-8245 (ISI Thomson Journals IF=0.259), pages 215-227, November 2019.
32. **Gellért Árpád**, *Modern számítógépek: múlt, jelen és jövő*, Nagyszében és vidéke, XXI. évfolyam, 84. szám, 2019/1.
33. **Arpad Gellert**, Adrian Florea, Ugo Fiore, Paolo Zanetti, Lucian Vintan, *Performance and Energy Optimisation in CPUs through Fuzzy Knowledge Representation*, Information

- Sciences, Elsevier, Vol. 476, ISSN 0020-0255 (ISI Thomson Journals IF=4.832, Scopus, DBLP, EBSCO), DOI 10.1016/j.ins.2018.03.029, pages 375-391, February 2019.
34. **Arpad Gellert**, Lucian Vintan, *A Multicore Architecture with Selective Load Value Prediction*, Proceedings of the Romanian Academy, Series A, Vol. 19, No. 4, ISSN 1454-9069 (ISI Thomson Journals IF=1.752, Scopus), pages 597-604, November 2018.
  35. Ugo Fiore, Adrian Florea, **Arpad Gellert**, Lucian Vintan, Paolo Zanetti, *Optimal Partitioning of LLC in CAT-enabled CPUs to Prevent Side-Channel Attacks*, Cyberspace Safety and Security (CSS 2018), Lecture Notes in Computer Science, Vol. 11161, Springer, ISBN 978-3-030-01688-3 (indexed DBLP, Scopus), pages 115-123, Amalfi, Italy, October 2018.
  36. **Arpad Gellert**, Remus Brad, *Studying the influence of search rule and context shape in filtering impulse noise images with Markov chains*, Signal, Image and Video Processing, Springer London, Vol. 12, Issue 2, ISSN 1863-1703 (ISI Thomson Journals IF=1.102, Scopus, DBLP), DOI 10.1007/s11760-017-1160-1, pages 315-322, February 2018.
  37. Adrian Florea, **Arpad Gellert**, *Developing Heuristics for the Graph Coloring Problem Applied to Register Allocation in Embedded Systems*, Journal of Multimedia Processing and Technologies, Vol. 8, No. 3, ISSN 0976-4127 (indexed DBLP), September 2017.
  38. **Arpad Gellert**, *Web Access Mining through Dynamic Decision Trees with Markovian Features*, Journal of Web Engineering, Vol. 16, Issue 5-6, ISSN 1540-9589 (ISI Thomson Journals IF=0.622, Scopus, DBLP), pages 524-536, USA, September 2017.
  39. Adrian Florea, **Arpad Gellert**, *E-learning Approach of the Graph Coloring Problem Applied to Register Allocation in Embedded Systems*, The 6th International Conference on Innovative Computing Technology (INTECH 2016), ISBN 978-1-5090-2000-3 (indexed ISI, IEEE Xplore, Scopus), pages 88-93, Dublin, Ireland, August 2016.
  40. **Arpad Gellert**, Adrian Florea, *Web Prefetching through Efficient Prediction by Partial Matching*, World Wide Web Journal, ISSN 1386-145X (ISI Thomson Journals IF=1.405, DBLP, Scopus, EBSCO, ACM Digital Library), DOI 10.1007/s11280-015-0367-8, pages 921-932, USA, September 2016.
  41. **Arpad Gellert**, Remus Brad, *Context-Based Prediction Filtering of Impulse Noise Images*, IET **Image** Processing, Vol. 10, Issue 6, ISSN 1751-9659 (ISI Thomson Journals IF=1.044, DBLP, Scopus, EBSCO, IEEE Xplore), DOI 10.1049/iet-ipr.2015.0702, pages 429-437, Stevenage, United Kingdom, June 2016.
  42. Adrian Florea, **Arpad Gellert**, Delilah Florea, Adrian-Cristian Florea, *Teaching Programming by Developing Games in Alice*, The 12th International Scientific Conference "eLearning and Software for Education" (eLSE 2016), ISSN 2066-026X (indexed ISI), Vol. 1, DOI 10.12753/2066-026X-16-073, Bucharest, April 2016.
  43. Adrian Florea, Elimelec Burghilea, **Arpad Gellert**, Delilah Florea, *MiniGL: Game and Learning*, The 11th International Scientific Conference "eLearning and Software for Education" (eLSE 2015), ISSN 2066-026X (indexed ISI), Vol. 1, Bucharest, April 2015.
  44. **Arpad Gellert**, Adrian Florea, *Web Page Prediction Enhanced with Confidence Mechanism*, Journal of Web Engineering, Vol. 13, Issue 5-6, ISSN 1540-9589 (ISI Thomson Journals IF=0.361, Scopus, DBLP), pages 507-524, USA, November 2014.
  45. Adrian Florea, Claudiu Buduleci, Radu Chis, **Arpad Gellert**, Lucian Vintan, *Enhancing the Sniper Simulator with Thermal Measurement*, The 18th International Conference on System Theory, Control and Computing, ISBN: 978-1-4799-4602-0 (Scopus, IEEE Xplore), pages 31-36, Sinaia, October 2014.

46. Adrian Florea, **Arpad Gellert**, *Different Approaches for Solving Optimization Problems using Interactive e-Learning Tools*, The 10<sup>th</sup> International Scientific Conference "eLearning and Software for Education" (eLSE 2014), ISSN 2066-026X (indexed ISI), Vol. 2, Bucharest, April 2014.
47. **Arpad Gellert**, Adrian Florea, *Investigating a New Design Pattern for Efficient Implementation of Prediction Algorithms*, Journal of Digital Information Management, Vol. 11, Issue 5, ISSN 0972-7272 (DBLP, Scopus, EBSCO), pages 366-377, October 2013.
48. Adrian Florea, Andrei F. Klein, Victor Badea, Mihai Stefanescu, **Arpad Gellert**, *Using FOCAP Tool for Teaching Microarchitecture Simulation and Optimization*, The 17th International Conference on System Theory, Control and Computing (ICSTCC 2013), ISBN: 978-1-4799-2228-4 (indexed ISI, Scopus, IEEE Xplore), pages 225-230, Sinaia, October 2013.
49. Traian Anghel, Adrian Florea, **Arpad Gellert**, Delilah Florea, *Developing Online Collaborative Games for e-Learning Environments*, The Second International Symposium on Knowledge Management and E-Learning (KMEL 2012), pages 81-90, Sinaia, September 2012, republished in *Lecture Notes in Computer Science*, New Horizons in Web Based Learning, ISBN 978-3-662-43453-6 (DBLP, Scopus), Vol. 7697, pages 221-230, 2014.
50. **Arpad Gellert**, Horia Calborean, Lucian Vintan, Adrian Florea, *Multi-Objective Optimizations for a Superscalar Architecture with Selective Value Prediction*, IET Computers & Digital Techniques, Vol. 6, Issue 4, ISSN: 1751-8601 (ISI Thomson Journals IF=0.284, Scopus, DBLP), pages 205-213, Stevenage, United Kingdom, July 2012.
51. Adrian Florea, Alexandru Ratiu, **Arpad Gellert**, Lucian Vintan, *A Visual Simulation Framework for Simultaneous Multithreading Architectures*, The 25th European Conference on Modelling and Simulation (ECMS 2011), ISBN: 978-0-9564944-2-9 (indexed ISI, Scopus, DBLP), Krakow, Poland, June 2011.
52. Traian Anghel, Adrian Florea, **Arpad Gellert**, Delilah Florea, *Web-Based Technologies for Online e-Learning Environments*, 7<sup>th</sup> International Scientific Conference "eLearning and Software for Education" (eLSE 2011), ISSN: 2066-026X (indexed ISI), Vol. II, pages 502-509, Bucharest, April 2011.
53. Adrian Florea, **Arpad Gellert**, Traian Anghel, Delilah Florea, *Enhanced Learning and Educational Management through Online Collaborative Technologies*, Journal of Digital Information Management, Vol. 9, No. 1, ISSN 0972-7272 (DBLP, EBSCO, Scopus), pages 33-42, February 2011.
54. **Árpád Gellért**, *Analiza și proiectarea algoritmilor: o abordare pragmatică prin aplicații Java*, Editura Techno Media, ISBN 978-606-8030-81-4, 2010.
55. Adrian Florea, **Arpad Gellert**, Traian Anghel, Delilah Florea, *Online Collaborative Education Management Tool*, Proceedings of the 5th International Conference on Virtual Learning, ISSN 1844-893 (indexed ISI), pp. 367-374, Targu Mures, October 2010.
56. **Árpád Gellért**, Rodica Baciú, *Programare în limbaj de asamblare: îndrumar de laborator*, Editura Techno Media, ISBN 978-606-8030-79-1, 2010.
57. **Arpad Gellert**, Gianluca Palermo, Vittorio Zaccaria, Adrian Florea, Lucian Vintan, Cristina Silvano, *Energy-Performance Design Space Exploration in SMT Architectures Exploiting Selective Load Value Predictions*, International Conference on Design, Automation and Test in Europe (DATE 2010), ISBN: 978-3-9810801-6-2 (indexed ISI, Scopus, DBLP, ACM Digital Library, IEEE Xplore), pages 271-274, Dresden, Germany, March 2010.

58. Ciprian Radu, Horia Calborean, Adrian Florea, **Arpad Gellert**, Lucian Vintan, *Exploring Some Multicore Research Opportunities. A First Attempt.*, Advanced Computer Architecture and Compilation for Embedded Systems (ACACES 2009), ISBN 978 90 382 1467 2, Terrassa, Spain, 2009.
59. **Arpad Gellert**, Adrian Florea, Lucian Vintan, *Exploiting Selective Instruction Reuse and Value Prediction in a Superscalar Architecture*, Journal of Systems Architecture, Elsevier, Vol. 55, Issue 3, ISSN 1383-7621 (ISI Thomson Journals IF=0.722, Scopus, DBLP, ACM Digital Library, EBSCO), pages 188-195, The Netherlands, 2009.
60. Adrian Florea, **Arpad Gellert**, Lucian Vintan, Marius Veltan, *The Impact of Java Applications at Microarchitectural Level from Branch Prediction Perspective*, International Journal of Computers, Communications & Control, Vol. IV, No. 1, ISSN 1841-9836, E-ISSN 1841-9844 (ISI Thomson Journals IF=0.373, Scopus), pages 27-40, 2009.
61. **Árpád Gellért**, *Beyond the Limits of Modern Processors*, Matrix Rom Publishing House, ISBN 978-973-755-426-0, Bucharest, 2008.
62. **Árpád Gellért**, *Advanced Prediction Methods Integrated Into Speculative Computer Architectures*, PhD Thesis, Computer Science Department, "Lucian Blaga" University of Sibiu, November 2008.
63. Lucian Vintan, Adrian Florea, **Arpad Gellert**, *Random Degrees of Unbiased Branches*, Proceedings of the Romanian Academy, Series A, Vol. 9, No. 3, ISSN 1454-9069 (ISI Thomson Journals, Scopus), pages 259-268, 2008.
64. Lucian Vintan, Adrian Florea, **Arpad Gellert**, *Forcing Some Architectural Ceilings of the Actual Processor Paradigm*, Invited Paper, The 3<sup>rd</sup> Conference of The Academy of Technical Sciences from Romania (ASTR), Cluj-Napoca, November 2008.
65. **Arpad Gellert**, *Developing and Improving the Performances of Some Predictive Architectures*, Third PhD Report, Computer Science Department, "Lucian Blaga" University of Sibiu, April 2008.
66. **Árpád Gellért**, Lucian N. Vințan, Adrian Florea, *A Systematic Approach to Predict Unbiased Branches*, "Lucian Blaga" University Press, ISBN 978-973-739-516-0, 111 pages, 2007.
67. Adrian Florea, Ciprian Radu, Horia Calborean, Adrian Crapciu, **Arpad Gellert**, Lucian Vintan, *Understanding and Predicting Unbiased Branches in General-Purpose Applications*, Bulletin of the Polytechnic Institute of Iasi, Tom LIII (LVII), Fasc. 1-4, Section IV, ISSN 1220-2169 (indexed Zentralblatt), 2007.
68. Adrian Florea, Ciprian Radu, Horia Calborean, Adrian Crapciu, **Arpad Gellert**, Lucian Vintan, *Designing an Advanced Simulator for Unbiased Branches Prediction*, Proceedings of 9th International Symposium on Automatic Control and Computer Science, ISSN 1843-665X, Iasi, 2007.
69. Ciprian Radu, Horia Calborean, Adrian Crapciu, **Arpad Gellert**, Adrian Florea, *An Interactive Graphical Trace-Driven Simulator for Teaching Branch Prediction in Computer Architecture*, The 6<sup>th</sup> EUROSIM Congress on Modelling and Simulation, (EUROSIM 2007), ISBN 978-3-901608-32-2, Ljubljana, Slovenia, September 2007.
70. **Arpad Gellert**, Adrian Florea, Maria Vintan, Colin Egan, Lucian Vintan, *Unbiased Branches: An Open Problem*, Twelfth Asia-Pacific Computer Systems Architecture Conference (ACSAC 2007), published in *Lecture Notes in Computer Science*, Springer-Verlag Berlin Heidelberg, Vol. 4697/2007, ISSN 0302-9743, ISBN 978-3-540-74308-8

- (indexed ISI, Scopus, DBLP, ACM Digital Library), pages 16-27, Seoul, Korea, August 2007.
71. **Arpad Gellert**, *Integration of Some Advanced Prediction Methods Into Speculative Computing Systems*, Second PhD Report, Computer Science Department, "Lucian Blaga" University of Sibiu, March 2007.
  72. Lucian Vintan, **Arpad Gellert**, Adrian Florea, Marius Oancea, Colin Egan, *Understanding Prediction Limits Through Unbiased Branches*, Eleventh Asia-Pacific Computer Systems Architecture Conference (ACSAC 2006), published in *Lecture Notes in Computer Science*, Springer-Verlag Berlin Heidelberg, Vol. 4186/2006, ISSN 0302-9743, ISBN 978-3-540-40056-1 (ISI Thomson Journals IF=0.402, Scopus, DBLP, ACM Digital Library), pages 480-487, Shanghai, China, September 2006.
  73. Marius Oancea, **Arpad Gellert**, Adrian Florea, Lucian Vințan, *Analyzing Branch Prediction Contexts Influence*, Advanced Computer Architecture and Compilation for Embedded Systems, (ACACES 2006), ISBN 90 382 0981 9, pages 5-8, L'Aquila, Italy, July 2006.
  74. Adrian Florea, **Arpad Gellert**, *Memory Wall — A Critical Factor in Current High-Performance Microprocessors*, Science and Supercomputing in Europe, ISBN 978-88-86037-19-8, pages 257-264, Barcelona, Spain, 2006.
  75. **Arpad Gellert**, Adrian Florea, *Finding and Solving Difficult Predictable Branches*, Science and Supercomputing in Europe, ISBN 978-88-86037-19-8, pages 265-271, Barcelona, Spain, 2006.
  76. **Arpad Gellert**, Lucian Vintan, *Person Movement Prediction Using Hidden Markov Models*, Studies in Informatics and Control, Vol. 15, No. 1, ISSN 1220-1766 (IEE INSPEC), National Institute for Research and Development in Informatics, Bucharest, March 2006.
  77. **Arpad Gellert**, *Prediction Methods Integrated Into Advanced Architectures*, First PhD Report, Computer Science Department, "Lucian Blaga" University of Sibiu, January 2006.
  78. Lucian Vințan, Adrian Florea, **Arpad Gellert**, *Focalising Dynamic Value Prediction to CPU's Context*, IEE Proceedings – Computers & Digital Techniques, Vol. 152, No. 4, ISSN 1350-2387 (ISI Thomson Journals IF=0.533, Scopus), pages 473-481, Stevenage, United Kingdom, July 2005.
  79. Lucian Vințan, **Arpad Gellert**, Adrian Florea, *Value Prediction Focalized on CPU Registers*, Advanced Computer Architecture and Compilation for Embedded Systems, (ACACES 2005), Academia Press, ISBN 90 382 0802 2, pages 181-184, Ghent, Belgium, July 2005.
  80. Lucian Vințan, **Arpad Gellert**, Adrian Florea, *Register Value Prediction Using Metapredictors*, Proceedings of the 8<sup>th</sup> International Symposium on Automatic Control and Computer Science, Iasi, October 2004, republished in Bulletin of the Polytechnic Institute of Iasi, Fasc. 1-4, Section IV, Tomul L (LIV), ISSN 1220-2169 (indexed Zentralblatt), pp. 109-122, Iasi, 2004.
  81. Jan Petzold, Theo Ungerer, Lucian Vintan, **Arpad Gellert**, *Comparative Study of Location Prediction by Neural Network and State Predictor Methods*, University of Augsburg, Germany, 2014.
  82. Lucian Vințan, **Arpad Gellert**, Jan Petzold, Theo Ungerer, *Person Movement Prediction Using Neural Networks*, Proceedings of the KI2004 International Workshop on Modeling and Retrieval of Context (MRC 2004), Vol-114, ISSN 1613-0073 (CiteSeer<sup>X</sup>), Ulm, Germany, September 2004.

83. Ioan Z. Miĥu, **Arpad Gellert**, Horia V. Caprita, *Improving the Recognition System Architecture in Order to Increase the Set of Recognized Geometric Shapes*, Proceedings of the International Conference on Computers and Communications (ICCC 2004), ISBN 973-613-542-X, pages 241-247, Oradea, May 2004.
84. Ioan Z. Miĥu, Horia V. Caprita, **Arpad Gellert**, *Parallel Programming Using MPI Library on Message-Passing Architectures*, Proceedings of the 6<sup>th</sup> International Conference on Technical Informatics (CONTI 2004), Transactions on Automatic Control and Computer Science, vol. 4, ISSN 1224-600X, pages 37-42, Timisoara, May 2004.
85. Ioan Z. Miĥu, **Arpad Gellert**, Horia V. Caprita, *Improved Methods of Geometric Shape Recognition Using Fuzzy and Neural Techniques*, Proceedings of the 6<sup>th</sup> International Conference on Technical Informatics (CONTI 2004), Transactions on Automatic Control and Computer Science, vol. 4, ISSN 1224-600X, pages 99-104, Timisoara, May 2004.
86. Lucian Vinĥan, **Arpad Gellert**, Jan Petzold, Theo Ungerer, *Person Movement Prediction Using Neural Networks*, Technical Report 2004-10 (<http://www.informatik.uni-augsburg.de/skripts/techreports/>), Institute of Computer Science, University of Augsburg, Germany, April 2004.
87. Ioan Z. Miĥu, **Arpad Gellert**, Cosmin N. Suciu, *Hierarchical Architecture Implying Fuzzy and Neural Techniques for On-Line Geometric Shape Recognition*, Annals of the University of Craiova, vol. 27, ISSN 1223-530X, pages 173-180, Craiova, 2003.
88. Ioan Z. Miĥu, **Arpad Gellert**, Cosmin N. Suciu, *Geometric Shape Recognition Using Fuzzy and Neural Techniques*, Proceedings of the 11<sup>th</sup> International Scientific Symposium (SINTES 11), ISBN 973-8043-416-6, pages 354 – 358, Craiova, October 2003.
89. Ioana I. Moisil, **Arpad Gellert**, *Introducing Object-Oriented Applications with the Caché Database System*, Proceedings of the 2<sup>nd</sup> Balkan Region Conference on Engineering Education, ISBN 973-651-673-3 (indexed ISI), pages 194 - 197, Sibiu, September 2003.

## B. Projects

1. Director, *Modelarea și optimizarea consumului și a producției de electricitate prin metode avansate de învățare automată*, Grant LBUS-HPI-ERG-2023-03, 2023-2025, 150.000 EUR.
2. Director, *Monitoring eco-friendly quality of the PET bottle manufacturing using advanced AI*, DIH-World Open Call 2 (Horizon 2020 EU Grant Agreement No. 952176), 2022-2023, 28.125 EUR.
3. Membru (director Bogdan-Constantin Pîrvu), *Futures of Innovation Technologies European Digital Innovation Hub*, Proiect Digital Europe 101083915, 2022-2025, 745.529,99 EUR.
4. Director, *Metode de estimare a consumului de energie electrică la nivel de oraș*, Grant LBUS-IRG-2022-08, 2022-2025, 12.000 lei.
5. Director, *Modelarea proceselor de asamblare asistată a produselor prin metode de inteligență artificială*, Grant LBUS-IRG-2021-07, 2021-2024, 12.000 lei.
6. Member (director Constantin-Bala Zamfirescu), *Ingineria învățării automate în Digital Twin*, Grant LBUS-HPI-ERG-2020-03, 2021-2023, 750.000 lei.
7. Director, *Modelare și estimare prin metode avansate de predicție*, Grant LBUS-IRG-2020-06, 2020-2023, 12.000 lei.

8. Director, *Tehnici de predicție a consumului și a producției de energie electrică în clădiri*, Grant LBUS-IRG-2019-05, 2019-2022, 11.875 lei.
9. Member (director Bogdan Pîrvu), *Dezvoltarea sistemelor socio-fizico-cibernetice pe baza Internetului Lucrurilor în fabrica viitorului*, Proiect POC, ID P\_37\_771, 2019-2020, 8.925.938,42 lei.
10. Director, *Metode de anticipare statistice în sisteme de gestiune a energiei electrice*, Grant LBUS-IRG-2018-04, 2018-2020, 9.000 lei.
11. Member (director Gabriel Leahu), *Personalul didactic din învățământul preuniversitar și universitar de stat – promotor al învățării pe tot parcursul vieții*, Proiect POSDRU/174/1.3/S/149155, 2014.
12. Member (director Daniel Mara), *e-Mentor: Dezvoltarea de competențe și abilități TIC și Mentorat educațional al persoanelor cu dizabilități*, Proiect POSDRU/157/1.3/S/140877, 2013, 9.565.559,35 lei.
13. Member (director Koen de Boschere – Ghent Univ., Belgium), *High Performance and Embedded Architecture and Compilation (HiPEAC)*, FP7 project no. 287759, 2012-2015, EUR 3.808.245.
14. Responsable, *Design Space Exploration of Advanced Prediction Methods for Speculative Computer Architectures*, proiect de cercetare cod 0066/AMM din 22.05.2009, Politecnico di Milano, Italia, 2009, EUR 3.000.
15. Member (director Maria Vințan), *Extinderea paradigmei analizei scurtcircuitelor monofazate în rețelele electrice de înaltă tensiune prin metode clasice și euristice*, Grant CNCSIS, cod 485, 2008, 510320 lei.
16. Director, *Metode avansate de predicție integrate în arhitecturi cu procesări speculative*, Grant CNCSIS tip TD, cod 248, 2007/2008, 28428 lei.
17. Member (director Lucian Vințan), *Microarhitectură superscalară avansată cu procesări paralele și predictiv-speculative*, Grant CNCSIS tip A, cod 39, 2007/2008, 175000 lei.
18. Member (director Constantin Oprean), *Sistem de suport al deciziilor de grup în mediul academic și al administrației publice – premisă a descentralizării și democratizării sistemului decizional*, Proiect P-CD, Nr. eCD1, Effective Decisions, 2005, 129735 lei.
19. Member (director Lucian Vințan), *Îmbunătățiri ale paradigmei arhitecturilor superscalare prin reutilizarea și predicția valorilor instrucțiunilor*, Grant CNCSIS cod 71/2004 - 2006, 14000 lei + 12000 lei + 10000 lei.

## C. Citations

1. Vințan L., *Predicție și speculație în microprocesoarele avansate*, Editura Matrix Rom, București, 2002.
2. Mirjam Kuhlmann, *Untersuchung von Neuronalen Netzen zur Kontextvorhersage in ubiquitären Systemen*, M.Sc. Thesis, University of Augsburg, Germany, February 2005.
3. Petzold J., Bagci F., Trumler W., Ungerer T., *Next Location Prediction Within a Smart Office Building*, Third International Conference on Pervasive Computing, Munich, Germany, May 2005.

4. Petzold J., Pietzowski A., Bagci F., Trumler W., Ungerer T., *Prediction of Indoor Movements Using Bayesian Networks*, First International Workshop on Location and Context Awareness, Oberpfaffenhofen, Germany, May 2005.
5. Florea A., *Creșterea performanței arhitecturilor de calcul cu paralelism la nivelul instrucțiunilor prin metode predictive*, Teză de doctorat, Universitatea Politehnica București, Iunie 2005.
6. Petzold J., *Zustandprädiktoren zur Kontextvorhersage in ubiquitären Systemen*, PhD Thesis, University of Augsburg, Germany, November 2005.
7. Florea A., *Predicția dinamică a valorilor în microprocesoarele generației următoare*, Editura Matrix Rom, București, 2005.
8. Amir Padovitz, *Context Management and Reasoning about Situations in Pervasive Computing*, PhD Thesis, Caulfield School of Information Technology, Monash University, Australia, April 2006.
9. Petzold J., Bagci F., Trumler W., Ungerer T., *Improving Next Location Prediction by Using Hybrid Predictors*, Second International Workshop on Location- and Context-Awareness, Dublin, Ireland, May 2006.
10. Petzold J., Bagci F., Trumler W., Ungerer T., *Comparison of Different Methods for Next Location Prediction*, European Conference on Parallel Computing, Dresden, Germany, August/September 2006.
11. Petzold J., Bagci F., Trumler W., Ungerer T., *Hybrid Predictors for Next Location Prediction*, Third International Conference on Ubiquitous Intelligence and Computing, Wuhan and Three Georges, China, September 2006.
12. Evgenios Goulimis, Lysandros Tsoulos, *An Approach for the Development of a Mobile Cartographic Information System* (in Greek), 9th National Cartographic Conference, Chania, Greece, November 2006.
13. Jing Wang, R. Venkatesha Prasad, *State-of-the-art of Cognitive Networking and Selection of Cognitive Techniques*, Future Home Networks (IOP GenCom, The Netherlands), Deliverable 2.1, December 2006.
14. Park Ki-Woong, *Authentication Latency Reduction Technique Based on a Delegation Mechanism and an Efficient PKI-Based Single Sign-On Protocol*, M.Sc. Thesis, Korea Advanced Institute of Science and Technology, School of Electrical Engineering and Computer Science, Daejeon, Korea, 2006.
15. Solà Cerdán I., *Dance Movement Patterns Recognition (Part I)*, Computer Science Final Project Report, University of Twente, The Netherlands, February 2007.
16. Vințan L., *Prediction Techniques in Advanced Computing Architectures*, Matrix Rom Publishing House, Bucharest, 2007.
17. Akoush S., Sameh A., *Bayesian Learning of Neural Networks for Mobile User Position Prediction*, Proceedings of the 16th International Conference on Computer Communications and Networks (ICCCN 2007), USA, August 2007.
18. Hicks M., Egan C., Christianson B., Quick P., *Towards an Energy Efficient Branch Prediction Scheme Using Profiling and Delay Region Scheduling*, International Conference on Design & Technology of Integrated Systems in Nanoscale Era (DTIS07), Rabat, Morocco, September 2007.
19. Das T., Choudhury A., De D., *Movement Pattern Based Adaptive Location Management*, The Fifth International Conference on Advances in Mobile Computing and Multimedia, Jakarta, Indonesia, December 2007.

20. Michael Andrew Hicks, *Energy Efficient Branch Prediction*, PhD Thesis, University of Hertfordshire, UK, December 2007.
21. Mamun Bin Ibne Reaz, Awss Assim, Muhammad I. Ibrahimy, Florence Choong, Faisal Mohd-Yasin, *Smart Home Device Usage Prediction using Pattern Matching and Reinforcement Learning*, 7th International Conference on System Identification and Control Problems, Moscow, January 2008.
22. Yokota T., Ootsu K., Baba T., *Potentials of Branch Predictors: From Entropy Viewpoints*, Proceedings of ARCS 2008 - Architecture of Computing Systems, Technische Universität Dresden, Germany, February 2008.
23. Yokota T., Ootsu K., Baba T., *Entropy Representation of Memory Access Characteristics and Cache Performance*, Advances in Computer Science and Technology (ACST 2008), Langkawi, Malaysia, April 2008.
24. Bradler D., Schweizer I., Panitzek K., Mühlhäuser M., *First Response Communication Sandbox*, Proceedings of the 11th Communications and Networking Simulation Symposium, Ottawa, Canada, April 2008.
25. Park K.W., Lim S.S., Park K.H., *Computationally Efficient PKI-Based Single Sign-On Protocol, PKASSO for Mobile Devices*, IEEE Transactions on Computers, Vol. 57, Issue 6, pages 821-834, June 2008.
26. Mamun Bin Ibne Reaz, Awss Assim, Muhammad I. Ibrahimy, Florence Choong, Faisal Mohd-Yasin, *Hardware Simulation of Home Automation Using Pattern Matching and Reinforcement Learning for Disabled People*, International Conference on Artificial Intelligence, pages 213-218, Las Vegas, Nevada, USA, July 2008.
27. Stephan Sigg, *Development of a Novel Context Prediction Algorithm and Analysis of Context Prediction Schemes*, Kassel University Press, ISBN 978-3-89958-392-2, Germany, 2008.
28. Lucian Vințan, *De la predicția salturilor condiționate la o întrebare fundamentală: ce este aleatorul?*, Educația Matematică, Vol. 4, Nr. 1, pg. 15-31, 2008.
29. Ivana Nižetić, *Analyzing Behaviour of Moving Objects*, Department of Applied Computing, Faculty of Electrical Engineering and Computing, University of Zagreb, 2008.
30. Markus Vincon, *Modellierung und Animation von computergenerierten Pflanzen*, PhD Thesis, Department of Mathematics and Computer Science, University of Marburg, 2008.
31. Tania Das, Abantika Choudhury, Debashis De, *Movement Prediction Oriented Adaptive Location Management*, Handbook of Research on Mobile Multimedia, Second Edition, Chapter 32, pages 464-483, 2008.
32. Ioan Z. Miha, Horia V. Caprita, *A strategy for parallel sorting algorithms evaluation based on MPI technology*, Proceedings of the 8<sup>th</sup> WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases, University of Cambridge, UK, February 2009.
33. Andrey Boytsov, Arkady Zaslavski, Kåre Synnes, *Extending Context Spaces Theory by Predicting Run-Time Context*, Lecture Notes in Computer Science, Springer Berlin/Heidelberg, Vol. 5764/2009.
34. M. AL-Omari, Rami Qahwaji, T. Colak, Stan Ipson, C. Balch, *Next-Day Prediction of Sunspots Area and McIntosh Classifications Using Hidden Markov Models*, International Conference on CyberWorlds, pp. 253-256, Bradford, UK, September 2009.
35. Mohammad Hani Alomari, *Engineering System Design for Automated Space Weather Forecast*, PhD Thesis, University of Bradford, UK, September 2009.

36. José Alfredo Abad Padilla, Juan Luis Gorricho Moreno, *Estrategia de búsqueda de dispositivos basada en el historial de conexiones utilizando redes neuronales*, VII Congreso Internacional en Innovación y Desarrollo Tecnológico, p. 473-480, Cuernavaca, Morelos, México, Oct. 2009.
37. Lucian Vințan, *Direcții de cercetare în domeniul sistemelor multicore / Main Challenges in Multicore Architecture Research*, Revista Română de Informatică și Automatică, ISSN: 1220-1758, Vol. 19, nr. 3, 2009, [http://www.ici.ro/RRIA/ria2009\\_3/index.html](http://www.ici.ro/RRIA/ria2009_3/index.html).
38. Sun J., Research on Context Model and Middleware in Smart Car, PhD Thesis (in Chinese), Zhejiang University, China, 2009.
39. Hongbo Si, Yue Wang, Jian Yuan, Xiuming Shan, *Mobility Prediction in Cellular Network using Hidden Markov Model*, 7th Annual IEEE Consumer Communications & Networking Conference, Las Vegas, Nevada, USA, January 2010.
40. Ryan Rakvic, José González, Qiong Cai, Pedro Chaparro, Grigorios Magklis, Antonio González, *Energy efficiency via thread fusion and value reuse*, IET Computers & Digital Techniques, Volume 4, Issue 2, ISSN 1751-8601, pp. 114-125, March 2010.
41. Laurence T. Yang, *Mobile Intelligence*, Wiley-Interscience, 2010.
42. Erich Bruns, Adaptive Image Classification on Mobile Phones, PhD Thesis, Bauhaus University, Weimar, Germany, May 2010.
43. Dirk Bradler, *Peer-to-Peer Concepts for Emergency First Response*, PhD Thesis, Technical University of Darmstadt, Germany, June 2010.
44. Andrey Boytsov, Arkady Zaslavsky, *Extending Context Spaces Theory by Proactive Adaptation*, SMART SPACES AND NEXT GENERATION WIRED/WIRELESS NETWORKING, Lecture Notes in Computer Science, Springer Berlin/Heidelberg, Vol. 6294/2010.
45. Faruk Bagci, Florian Kluge, Benjamin Satzger, Andreas Pietzowski, Wolfgang Trumler, Theo Ungerer, *Experiences with a Smart Office Project*, Mobile Intelligence, Wiley, New York, Chapter 14, pages 294–319, 2010.
46. Andrey Boytsov, Arkady Zaslavsky, *Context Prediction in Pervasive Computing Systems: Achievements and Challenges*, SUPPORTING REAL TIME DECISION-MAKING, Annals of Information Systems, Vol 13, Part 2, 2011.
47. Jawad H. AlKhateeb, Olivier Pauplin, Jinchang Ren, Jianmin Jiang, *Performance of Hidden Markov Model and Dynamic Bayesian Network Classifiers on Handwritten Arabic Word Recognition*, Knowledge-Based Systems, Elsevier, February 2011.
48. Bien Van Quang, Vankatesha Prasad, Ignas Niemieeger, Nguyen Thi Viet Huong, *An Approach for Movement Prediction in Radio over Fiber Indoor Network at 60 GHz*, International Conference on Communications and Signal Processing (ICCSP 2011), pp. 389-393, Kerala, India, February 2011.
49. Sulaiman R. Diary, *ANN based DBP for Microprocessors Power Reduction*, Journal of Computer Science and Control Systems, Vol. 4, No. 1, pp. 173-178, May 2011.
50. Andrey Boytsov, *Context Reasoning, Context Prediction and Proactive Adaptation in Pervasive Computing Systems*, Licentiate Thesis, Luleå University of Technology, Sweden, June 2011.
51. Ma Shou-ming, Wang Ru-chuan, Ye Ning, *Using Context Prediction for Elderly Health Monitoring in Pervasive Computing Environments*, International Journal of Digital Content Technology and its Applications (JDCTA), Vol. 5, No. 1, pp. 16-25, 2011.

52. Eoghan Furey, *HABITS: A History Aware Based Indoor Tracking System*, PhD Thesis, University of Ulster, July 2011.
53. Eoghan Furey, Kevin Curran, Paul Mc Kevitt, *HABITS: A Bayesian Filter Approach to Indoor Tracking and Location*, The 22nd Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2011), University of Ulster, Ireland, August 2011.
54. Minhaj Ahmad Khan, *Improving performance through deep value profiling and specialization with code transformation*, Computer Languages, Systems & Structures, Elsevier, 2011.
55. Horia Andrei Calborean, *Multi-Objective Optimization of Advanced Computer Architectures using Domain Knowledge*, PhD Thesis, "Lucian Blaga" University of Sibiu, September 2011.
56. Ciprian Radu, *Optimized Algorithms for Network-on-Chip Application Mapping*, PhD Thesis, "Lucian Blaga" University of Sibiu, September 2011.
57. Kejing Zhang, *Traffic Pattern Prediction in Cellular Networks*, PhD Thesis, Queen Mary University of London, UK, November 2011.
58. Mehdi Alipour, Kamran Moshari, Mohammad Reza Bagheri, *Performance per Power Optimum Cache Architecture for Embedded Applications, a Design Space Exploration*, Second International Conference on Networked Embedded Systems for Enterprise Applications (NESEA 2011), pp. 1-6, Fremantle, Australia, December 2011.
59. Eoghan Furey, Kevin Curran, Paul Mc Kevitt, *A Bayesian Filter Approach to Modelling Human Movement Patterns for First Responders within Indoor Locations*, Third International Conference on Intelligent Networking and Collaborative Systems, Fukuoka, Japan, December 2011.
60. Mehdi Alipour, Mostafa Salehi, Kamran Moshari, *Cache Power and Performance Tradeoffs for Embedded Applications*, IEEE International Conference on Computer Applications and Industrial Electronics (ICCAIE 2011), pp. 26-31, Penang, Malaysia, December 2011.
61. Tomáš Mikluščák, Michal Gregor, *Person Movement Prediction Using Artificial Neural Networks with Dynamic Training on a Fixed-Size Training Data Set*, Applied Computer Science, Vol. 7, No. 2, pp. 43-56, 2011.
62. Tim Schlüter, Stefan Conrad, *Hidden markov model-based time series prediction using motifs for detecting inter-time-serial correlations*, Proceedings of the 27<sup>th</sup> Annual ACM Symposium on Applied Computing, pp. 158-164, Riva del Garda, Italy, March 2012.
63. Eoghan Furey, Kevin Curran, Paul Mc Kevitt, *Probabilistic Indoor Human Movement Modeling to Aid First Responders*, Journal of Ambient Intelligence and Humanized Computing, Springer, Vol. 3, No. 2, April 2012.
64. Tim Schlüter, *Knowledge Discovery from Time Series*, PhD Thesis, Heinrich-Heine-Universität Düsseldorf, April 2012.
65. Mehdi Alipour, Hojjat Taghdisi, Seyed Hassan Sadeghzadeh, *Multi objective design space exploration of cache for embedded applications*, 25<sup>th</sup> IEEE Canadian Conference on Electrical & Computer Engineering (CCECE), pp. 1-4, Montreal, QC, Canada, May 2012.
66. Sawsan Mahmoud, *Identification and Prediction of Abnormal Behaviour Activities of Daily Living in Intelligent Environments*, PhD Thesis, Nottingham Trent University, May 2012.

67. Christian Voigtmann, Klaus David, *A Survey To Location-Based Context Prediction*, First Workshop on Recent Advances in Behavior Prediction and Pro-Active Pervasive Computing (AwareCast 2012), Newcastle, UK, June 2012.
68. Erich Bruns, Oliver Bimber, *Localization and Classification through Adaptive Pathway Analysis*, IEEE Pervasive Computing, Vol. 11, Issue 2, 2012.
69. Mehdi Alipour, Esmaeil Zeinali Kh., Kamran Moshari, Ensiyeh S. F. Moghaddam, *Performance, Power and Area Exploration of Cache for Embedded Applications*, International Conference on Embedded Systems and Applications (ESA'12), Las Vegas, Nevada, USA, July 2012.
70. Conor Ryan, Kenneth N. Brown, *Occupant Location Prediction Using Association Rule Mining*, Workshop on AI Problems and Approaches for Intelligent Environments, pp. 27-32, Montpellier, France, August 2012.
71. Han Xue, Huang Liang, Qian Man-li, Shi Jing-lin, *Key Technologies of Next Generation Mobile Communication Network Control and Management*, Journal of Integration Technology, Vol. 1, No. 3, pages 55-60, September 2012.
72. Andrey Boytsov, *Situation awareness in pervasive computing systems: reasoning, verification, prediction*, PhD Thesis, Luleå University of Technology, Sweden, October 2012.
73. Tomáš Mikluščák, Michal Gregor, Aleš Janota, *Using Neural Networks for Route and Destination Prediction in Intelligent Transport Systems*, Communications in Computer and Information Science vol. 329, pp. 380-387, Springer-Verlag Berlin Heidelberg 2012.
74. Ralf Jahr, Horia Calborean, Lucian Vintan, Theo Ungerer, *Finding near-perfect parameters for hardware and code optimizations with automatic multi-objective design space explorations*, Concurrency and Computation: Practice and Experience, 2012.
75. Sara Manifar, *Arm Movements Effects in Response to Posture Instability*, M.Sc. Thesis, Ryerson University, Toronto, Ontario, Canada, 2012.
76. Carlos Henrique Andrade Costa, *Dynamic Methodology for Optimization Effectiveness Evaluation and Value Locality Exploitation*, PhD Thesis, University of São Paulo, Brazil, 2012.
77. Ralf Jahr, *Performanceanalyse und plattformspezifische Optimierungen am Beispiel des Grid-ALU-Prozessors*, PhD Thesis, University of Augsburg, Germany, 2012.
78. Roberto Pugliese, Jayasimha Rao, Santosh Tirunagari, *Unsupervised approaches to visual analysis of human motion: towards automatic classification of activity and behavior*, Aalto University, Finland, 2012.
79. Horia Calborean, Ralf Jahr, Theo Ungerer, Lucian Vintan, *A Comparison of Multi-Objective Algorithms for the Automatic Design Space Exploration of a Superscalar System*, Advances in Intelligent Systems and Computing, Vol. 187, pp. 489-502, 2013.
80. Sawsan Mahmoud, Ahmad Lotfi, Caroline Langensiepen, *Behavioural pattern identification and prediction in intelligent environments*, Applied Soft Computing, Vol. 13, Issue 4, pp. 1813-1822, April 2013.
81. Mamun Bin Ibne Reaz, *Artificial Intelligence Techniques for Advanced Smart Home Implementation*, Acta Technica Corviniensis, ISSN 2067-3809, Tome 6, Fascicule 2, April-June 2013.
82. Marius Valerian Paulet, Oana Maria Neacsu, Alexandru Salceanu, *Elearning Dedicated to the Students of Electrical Engineering*, 8th International Symposium on Advanced Topics in Electrical Engineering, Bucharest, May 2013.

83. Mamun Bin Ibne Reaz, Mohd. Marufuzzaman, *Pattern Matching and Reinforcement Learning to Predict the User Next Action of Smart Home Device Usage*, Acta Technica Corviniensis, ISSN 2067-3809, Tome 6, Fascicule 3, July-September 2013.
84. Mohd. Marufuzzaman, Mamun Bin Ibne Reaz, *Hardware Simulation of Pattern Matching and Reinforcement Learning to Predict the User Next Action of Smart Home Device Usage*, World Applied Sciences Journal, Vol. 22, No. 9, 2013.
85. István Lórentz, *Parallel Computing on Multi-Core and Graphics Processors*, PhD Thesis, Transilvania University of Braşov, July 2013.
86. Hariram Chavan, Suneeta Sane, H. B. Kekre, *Neural Network Based Mobility Aware Prefetch Caching and Replacement Strategies in Mobile Environment*, International Journal of Advanced Computer Science and Applications, Vol. 4, No. 5, USA, 2013.
87. Lucian Vinţan, *Grade de contradicţie pentru ontologii de domeniu reprezentate prin logici fuzzy*, Revista Română de Informatică şi Automatică, Vol. 23, Nr. 3, 2013.
88. Radu Chis, Maria Vintan, Lucian Vintan, *Multi-Objective DSE Algorithms' Evaluations on Processor Optimization*, IEEE International Conference on Intelligent Computer Communication and Processing, Cluj-Napoca, September 2013.
89. Sonja Zaplata, Matthias Meiners, Winfried Lamersdorf, *Designing future-context-aware dynamic applications with structured context prediction*, Software: Practice and Experience, John Wiley & Sons, Vol. 43, Issue 10, pp. 1185–1204, October 2013.
90. Conor Ryan, Kenneth N. Brown, *Predicting Occupant Locations Using Association Rule Mining*, Research and Development in Intelligent Systems XXX, Springer International Publishing, pp. 63-77, 2013.
91. Huang Liang, Hu Li, Yuan Yao, Han Xue, Shi Jing-Lin, *Multicast Paging Scheme Based on Bipartite Graph Matching Model*, Journal of System Simulation, Issue 5, pp. 1014-1023, 2013.
92. Marcel Gazdík, *Rozšíření platformy TelosB o detekci pohybu a čipovou kartu*, MSc Thesis, Masaryk University, Brno, Czech Republic, 2013.
93. Sheetal Popatrao Shinde, *A Study Of Effectiveness Of Web Based Technology Implemented In Selected Private Schools In Satara District*, PhD Thesis, Shivaji University, India, 2013.
94. Christian Voigtmann, *An algorithmic approach for collaborative-based prediction of user contexts in ubiquitous environments under consideration of legal implications*, PhD Thesis, University of Kassel, Germany, January 2014.
95. Mutaz Al-Tarawneh, Ashraf Alkhresheh, *Towards An Optimal Multicore Processor Design for Cryptographic Algorithms – A Case Study on RSA*, WSEAS Transactions on Computers, Volume 13, pp. 54-77, 2014.
96. Q. Bien, R.V. Prasad, K. Chandra, I. Niemieegers, H. Nguyen, *Resource management in indoor hybrid Fi-Wi network*, Transactions on Emerging Telecommunications Technologies (IF=1.049), 2014.
97. Christian Voigtmann, Klaus David, *Collaborative Context Prediction*, Socio-Technical Design of Ubiquitous Computing Systems, Springer International Publishing, Part II, pp. 131-150, March 2014.
98. Urvashi Pathania, Aman Singh, *Visualization Tool for Tree and Graph Algorithms with Audio Comments*, International Journal of Software and Web Sciences, (IJSWS) 8(1), pp. 51-58, March 2014.

99. Urvashi Pathania, Aman Singh, *Visualization Tools of Data Structures Algorithms – A Survey*, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 4, Issue 3, pp. 338-341, March 2014.
100. Saulius Sinkevicius, Arunas Lipnickas, Kestas Rimkus, *Organic Shapes Classification by Similarity to Basic Geometric Shapes*, International Journal of Computer and Information Technology, Vol. 3, Issue 3, pp. 503-507, May 2014.
101. Tomas Mikluscak, Ales Janota, *How to Predict Location and for What to Use It?*, 15<sup>th</sup> International Carpathian Control Conference (ICCC), pp. 351-356, Velké Karlovice, Czech Republic, May 2014.
102. Ali Karouni, Bassam Daya, Pierre Chauvet, *Applying Decision Tree Algorithm and Neural Networks to Predict Forest Fires in Lebanon*, Journal of Theoretical and Applied Information Technology, Vol. 63, No. 2, pp. 282-291, May 2014.
103. Lucian Vintan, *Multi-Objective Optimization of Advanced Computing Systems: Some Achievements and Fertile Work Directions*, Romanian Journal of Information Science and Technology, Vol. 17, No. 2, pp. 121-133, June 2014.
104. Christian Felix Bürckert, *Echtzeitentscheidungen durch Trajektorien-simulation in Dual Reality*, MSc Thesis, Saarland University, Germany, June 2014.
105. Peng Chen, Chao Wang, Xi Li, Xuehai Zhou, *Multi-objective aware design flow for coarse-grained systems on chip*, 20th International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA), pp. 1-8, Chongqing, China, August 2014.
106. Christian Koehler, Nikola Banovic, Ian Oakley, Jennifer Mankoff, Anind K. Dey, *Indoor-ALPS: an adaptive indoor location prediction system*, Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing, pp. 171-181, Seattle, USA, September 2014.
107. Halgurt Bapierre, *Context Specific Next Location Prediction*, PhD Thesis, University of Munich, Germany, 2014.
108. Radu Chis, Lucian Vintan, *Multi-Objective Hardware-Software Co-Optimization for the SNIPER Multi-Core Simulator*, Proceedings of 10th International Conference on Intelligent Computer Communication and Processing (ICCP 2014), Cluj-Napoca, September 2014.
109. Thomason Alasdair, Leeke Matthew and Griffiths Nathan, *Understanding the impact of data sparsity and duration for location prediction applications*, International Conference on Mobility and Smart Cities, Rome, Italy, October 2014, republished in Internet of Things: IoT Infrastructures, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, Springer, pp. 192-197, June 2015.
110. Quang Van Bien, *Handoff Management in Radio over Fiber 60 GHz Indoor Networks*, PhD Thesis, University of Delft, The Netherlands, November 2014.
111. K. Amrita, S.T. Keerthana, M. Vasanthakumar, *Modified Artificial Potential Fields Algorithm for Mobile Robot Path Planning*, International Journal for Research in Applied Science & Engineering Technology, Special Issue 3, November 2014.
112. Elon Bauer, Joseph Carlos, *Thermal Management Using PCM-Based Heatsinks*, Carnegie Mellon University, Pittsburgh, PA, USA, 2014.
113. John Jairo Sanabria Sarmiento, *Modelamiento de los patrones de movimiento presentes en la marcha humana a partir del análisis de siluetas adquiridas en ambientes con iluminación no controlada empleando técnicas de inteligencia artificial*, MSc Thesis, Industrial University of Santander, Colombia, 2014.

114. Saulius Sinkevicius, Arunas Lipnickas, Kestas Rimkus, *Automatic amber gemstones identification by color and shape visual properties*, Engineering Applications of Artificial Intelligence, Vol. 37, pp. 258-267, January 2015.
115. Darine Ameyed, Moeiz Miraoui, Chakib Tadj, *A Survey of Prediction Approach in Pervasive Computing*, International Journal of Scientific & Engineering Research, Vol. 6, Issue 5, pp. 306-316, May 2015.
116. Lucian Vintan, *Computing Systems Multi-Objective Optimization Using Domain-Knowledge*, AGIR Bulletin Supplement, Vol. XX, No. 2, 2015.
117. Abubaker Elbayoudi, Ahmad Lotfi, Caroline Langensiepen, Kofi Appiah, *Modelling and simulation of activities of daily living representing an older adult's behaviour*, Proceedings of the 8th ACM International Conference on Pervasive Technologies Related to Assistive Environments (PETRA 2015), Corfu, Greece, July 2015.
118. Remus Brad, *Advances in Spatio-Temporal Image Processing with Scientific Applications*, Habilitation Thesis, "Lucian Blaga" University of Sibiu, July 2015.
119. Hongjun Dai, Chao Yan, Bin Gong, Zhun Yang, Tianzhou Chen, *Exploring Predictable Redundant Instruction Parallelism in Fault Tolerant Microprocessors*, 17th IEEE International Conference on High Performance Computing and Communications, pp. 324-329, New York, US, August 2015.
120. Christian Koehler, *Indoor Location Prediction through Modeling of Human Spatiotemporal Behavior*, PhD Thesis, Carnegie Mellon University, Pittsburgh, PA, USA, August 2015.
121. Lucian Vintan, *Educația universitară în ingineria calculatoarelor: spre o abordare cultural-științifică*, Revista de Politica Științei și Scientometrie, Vol. 4, No. 3, pp. 204-208, Sept. 2015.
122. Alasdair Thomason, Nathan Griffiths, Victor Sanchez, *Parameter Optimisation for Location Extraction and Prediction Applications*, 13th IEEE International Conference on Pervasive Intelligence and Computing, Liverpool, UK, October 2015.
123. Predrag Pecev, Miloš Racković, Miodrag Ivković, *A system for deductive prediction and analysis of movement of basketball referees*, Multimedia Tools and Applications (Springer US), October 2015.
124. Aditya Khamparia, Babita Pandey, *Knowledge and intelligent computing methods in e-learning*, International Journal of Technology Enhanced Learning, Vol. 7, No. 3, pp. 221-242, November 2015.
125. Yuan Yao, Zhang Dalin, Wang Qing and Shi Jinglin, *A Multicast Search Scheme Based on Bipartite Graph Matching Model*, International Journal of Signal Processing, Image Processing and Pattern Recognition, Vol. 8, No. 11, pp. 397-416, 2015.
126. Nizar Hamadeh, Alaa Hilal, Bassam Daya, Pierre Chauvet, *Studying the factors affecting the risk of forest fire occurrence and applying neural networks for prediction*, SAI Intelligent Systems Conference (IntelliSys), pp. 522-526, London, UK, November 2015.
127. Jawdat Jamil Alshaer, *Mobile Object-Tracking Approach using a Combination of Fuzzy Logic and Neural Networks*, Global Journal of Computer Science and Technology: E, Vol. 15, Issue 8, pp. 19-25, USA, December 2015.
128. Chao Wang, Peng Chen, Xi Li, Xuda Zhou, Xuehai Zhou, Nadia Nedjah, *Effective and Efficient Design Space Exploration for Heterogeneous Microprocessor System-on-Chip*, Reconfigurable and Adaptive Computing: Theory and Applications, Eds. Nadia Nedjah and Chao Wang, Chapter 1, pages 3-25, CRC Press, USA, December 2015.

129. Max Peter Spooner, Thomas Martini Jørgensen, Camilla Thyregod, Bjarne Kjær Ersbøll, *Analysis of data from the MariCare Smartfloor at Skovhuset Care Home*, Technical Report, Technical University of Denmark, 2015.
130. Abraham E. Gamarra M., Tatiana L. Munive R., *Reconocimiento de patrones con redes neuronales*, *Prospectiva Universitaria*, 12(1-2), pp. 39-41, 2015.
131. Antonis Bikakis, Patrice Caire, Keith Clark, Gary Cornelius, Jiefei Ma, Rob Miller, Alessandra Russo, *Proactive Multi-Agent Explanation Generation and Evidence Gathering in a Service Robot Inhabited Assisted Living Environment*, 8-th International Conference on Agents and Artificial Intelligence, Rome, Italy, February 2016.
132. Antonis Bikakis, Patrice Caire, Keith Clark, Gary Cornelius, Jiefei Ma, Rob Miller, Alessandra Russo, Holger Voos, *Collaborative Explanation and Response in Assisted Living Environments Enhanced with Humanoid Robots*, Proceedings of 8th International Conference on Agents and Artificial Intelligence, Rome, Italy, February 2016.
133. Jose A. Oliveira-Lima, Ramiro Morais, João Francisco Alves Martins, Adrian Florea, Celson Lima, *Load Forecast on Intelligent Buildings Based on Temporary Occupancy Monitoring*, *Energy and Building*, 2016.
134. Lucian Vintan, *Dynamic Neural Branch Prediction Fundamentals*, *AGIR Scientific Bulletin*, Vol. XXI, No. 1, pp. 64-71, Bucharest, January-March 2016.
135. Oliviu-Dorin Matei, *Achievements and New Research Trends in Evolutionary Computation*, Habilitation Thesis, Technical University of Cluj-Napoca, April 2016.
136. Ioan Vlasin, Ciprian-Bogdan Chirila, *Online Contest Based on Integration of Activities, Adaptability and Students Cooperation Using Ilias LMS*, The 12th International Scientific Conference "eLearning and Software for Education" (eLSE 2016), Vol. 3, Bucharest, April 2016.
137. Poonam Jangid, R.C. Patel, *Review of two dimension geometric shape detection methods*, *International Journal of Advance Research in Engineering, Science & Technology*, Vol. 3, Issue 4, pp. 252-258, April 2016.
138. Conor Ryan, *Occupant location prediction in smart buildings using association rule mining*, PhD Thesis, University College Cork, Ireland, April 2016.
139. Ciprian-Bogdan Chirila, *Towards the Gamification of Auto-Generative Learning Objects*, First International Conference on Smart Learning Ecosystems and Regional Developments, Timisoara, May 2016.
140. Lucian Vintan, *Fundamente ale arhitecturii microprocesoarelor*, Matrix Rom, 2016.
141. Daniel M. Olsen, *Performance-aware resource management of multi-threaded applications for many-core systems*, MSc Thesis, Southern Illinois University at Carbondale, ProQuest Dissertations Publishing, August 2016.
142. Azadeh Zamanifar, Eslam Nazemi, Mojtaba Vahidi-Asl, *DMP-IOT: A distributed movement prediction scheme for IOT health-care applications*, *Computers & Electrical Engineering*, Elsevier, Av. online: September 2016.
143. Azadeh Zamanifar, Eslam Nazemi, Mojtaba Vahidi-Asl, *DSHMP-IOT: A distributed self healing movement prediction scheme for internet of things applications*, *Applied Intelligence*, Springer US, DOI 10.1007/s10489-016-0849-0, First online: October 2016.
144. Ciprian-Bogdan Chirila, Remy Raes, Arthur Roland, *Towards a generic gamification of sorting algorithms*, 12th IEEE International Symposium on Electronics and Telecommunications, Timisoara, October 2016.

145. Abdulrahman Al-Molegi, Mohammed Jabreel, Baraq Ghaleb, *STF-RNN: Space Time Features-based Recurrent Neural Network for Predicting People Next Location*, 2016 IEEE Symposium Series on Computational Intelligence (SSCI 2016), Athens, Greece, December 2016.
146. Howard Nathan Rude, *Intelligent caching to mitigate the impact of web robots on web servers*, MSc Thesis, Wright State University, Dayton, Ohio, USA, December 2016.
147. Hami Aksu, *Dwell time forecast and checkout optimisation in supermarkets*, PhD Thesis, Charles Sturt University, Australia, December 2016.
148. Michiel Creve, *Design of a framework for the automatic detection of context on the Android platform*, MSc Thesis, Gent University, 2016.
149. Li Li, *Frequent Episode Mining for Smart Home Wireless Sensor Network*, PhD Thesis, Diss. No. 23271, ETH Zurich, 2016.
150. Huseyin Gunes, *Learning, web based, low energy consumption, modular home automation system development*, PhD Thesis, Balikesir University Institute of Science, Turkey, December 2016.
151. Yuancheng Li, Bin Liu, *Survey of implicit thread-level speculation parallel technology for irregular serial programs*, Journal of Xi'an Institute of Posts and Telecommunications, Vol. 22, No. 1, pp. 99-105, January 2017.
152. Sparsh Mittal, *A Survey of Value Prediction Techniques for Leveraging Value Locality, Concurrency and Computation: Practice and Experience*, DOI: 10.1002/cpe, First online: January 2017.
153. Chithra D. Gracia, S. Sudha, *Adaptive Clustering of Embedded Multiple Web Objects for Efficient Group Prefetching*, Arabian Journal for Science and Engineering, Springer, Vol. 42, Issue 2, pages 715-724, February 2017.
154. Neda Kaffash-Charandabi, Ali-Asghar Alesheikh, *Context inference and prediction modeling in ubiquitous health GIS*, Transactions in GIS, John Wiley & Sons Ltd, February 2017.
155. Luan Lam, Antony Tang, John Grundy, *Predicting Indoor Spatial Movement Using Data Mining and Movement Patterns*, The 4th IEEE International Conference on Big Data and Smart Computing (BigComp 2017), Jeju, Korea, February 2017.
156. Σχίζας Β. Νικόλας, *A Framework for Modelling Computational Sprinting with Phase Change Materials*, BSc Thesis, National Technical University of Athens, Greece, February 2017.
157. Darine Ameyed, *Modélisation et spécification formelle de contexte et sa prédiction dans les systèmes diffus: Une approche basée sur la logique temporelle et le modèle stochastique*, PhD Thesis, Université du Québec, Montréal, February 2017.
158. Predrag Pecev, Miloš Racković, *LTR-MDTS structure – a structure for multiple dependent time series prediction*, Computer Science and Information Systems, DOI 10.2298/CSIS150815004P, 2017.
159. Ciprian-Bogdan Chirila, *Auto-Generative Learning Objects in Online Assessment of Data Structures Disciplines*, Broad Research in Artificial Intelligence and Neuroscience, Vol. 8, Issue 1, pp. 24-34, April 2017.
160. G. Poornalatha, Sharma Chethan, Raghavendra Prakash, *Prediction model for prefetching web page based on the usage pattern*, International Journal of Control Theory and Applications, Vol. 10, No. 14, pp. 39-47, 2017.

161. Ciprian-Bogdan Chirila, Remy Raes, *Generic online algorithm interpreter with dynamic data visualizations – case study on sorting algorithms*, International Scientific Conference eLearning and Software for Education, Vol. 2, pp. 262-267, Bucharest, April 2017.
162. Ciprian-Bogdan Chirila, *Towards the Enhancement of AGLOs with SCORM and xAPI*, International Scientific Conference eLearning and Software for Education, Vol. 2, pp. 268-274, Bucharest, April 2017.
163. Adrian Florea, *Teaching the microprocessors systems focused on societal challenges: designing of performant cache replacement algorithms as green information technology (IT) solution*, Journal of Digital Information Management, Vol. 15, Number 2, pp. 50-65, April 2017.
164. Haider Hasan Mshali, *Context-aware e-health services in smart spaces*, PhD Thesis, University of Bordeaux, France, April 2017.
165. Gulsher Baloch, Huseyin Ozkaramanli, *Image denoising via correlation-based sparse representation*, Signal, Image and Video Processing, DOI 10.1007/s11760-017-1113-8, First online: May 2017.
166. Rawia Ibrahim Omer Ahmed, *Offline Recognition System for Isolated Arabic Handwritten Characters using Hidden Markov Models*, PhD Thesis, Sudan University of Science and Technology, May 2017.
167. Sebastien Hoarau, *Ludification pour la motivation en apprentissage de la programmation*, Computer Science and Mathematics Laboratory, Université de La Réunion, Saint-Denis, France, June 2017.
168. T.T. Adelaja, S.O. Akinola, *An Enhanced Web Page Recommendation System Using Hidden Markov Model and Page Rank Technique*, Journal of Science and Logics in ICT Research, Vol. 1, pp. 57-63, June 2017.
169. Ning Xie, Kyle Brown, Nathan Rude, Derek Doran, *A Soft Computing Prefetcher to Mitigate Cache Degradation by Web Robots*, 14th International Symposium on Neural Networks (Hokkaido, Japan, June 2017), published in Lecture Notes in Computer Science, Advances in Neural Networks, Vol. 10261, pp. 536-546, 2017.
170. Carmen Cheh, Binbin Chen, William G. Temple, William H. Sanders, *Data-Driven Model-Based Detection of Malicious Insiders via Physical Access Logs*, 14th International Conference on Quantitative Evaluation of Systems, Berlin, Germany, September 2017.
171. Mayank Tiwari, Gupta Bhupendra, *Maximum Absolute Relative Differences Statistic for Removing Random-Valued Impulse Noise from Given Image*, Circuits Systems and Signal Processing, DOI 10.1007/s00034-017-0655-x, First online: September 2017.
172. Immanuel König, *An algorithmic approach to increase the context prediction accuracy by utilizing multiple context sources*, PhD Thesis, University of Kassel, Germany, September, 2017.
173. Antonios Karatzoglou, Harun Sentürk, Adrian Jablonski, Michael Beigl, *Applying Artificial Neural Networks on Two-Layer Semantic Trajectories for Predicting the Next Semantic Location*, Lecture Notes in Computer Science, Artificial Neural Networks and Machine Learning, Vol. 10614, pp. 233-241, Springer, First online: October 2017.
174. Abdulrahman Al-Molegi, Antoni Martínez Ballesté, Mohammed Jabreel, *Geo-Temporal Recurrent Model for Location Prediction*, 20<sup>th</sup> International Conference of the Catalan Association for Artificial Intelligence, Deltebre, Catalonia, Spain, October 2017.

175. Uğur Erkan, Levent Gökrem, *A new method based on pixel density in salt and pepper noise removal*, Turkish Journal of Electrical Engineering & Computer Sciences, DOI 10.3906/elk-1705-256, First online: November 2017.
176. Isidoros Sideris, Daren Croxford, Andrew Burdass, *Power saving by reusing results of identical micro-operations*, US Patent No. US9817466 B2, <https://www.google.com/patents/US9817466>, November 2017.
177. Rima Alaaeddine, Song Wu, *Application of supervised learning methods to better predict building energy performance*, The First International Conference on Sustainable Futures 2017, Sitra, Bahrain, November 2017.
178. Thangaraj Veerakumar, Badri Narayan Subudhi, Sankaralingam Esakkirajan, Prasanta Kumar Pradhan, *Context Model Based Edge Preservation Filter for Impulse Noise Removal*, Expert Systems With Applications, DOI 10.1016/j.eswa.2017.06.033, ISSN: 0957-4174, Vol. 88, Issue C, pages 29-44, December 2017.
179. Zubaida Rehman, *Survey – Branch Prediction Techniques*, Research Journal of Innovative Ideas and Thoughts, Vol. 5, Issue 2, pages 47-58, December 2017.
180. Lucian Vintan, *Towards Synergic Meta-Algorithmic Approaches in Complex Computing Systems*, Romanian Journal of Information Science and Technology, Vol. 20, No. 3, pp. 241-255, 2017.
181. Kazakov Danil Igorevitch, *On recommending task tags in online project management service* (in Russian language), Technical Report, Saint Petersburg University, Russia, 2017.
182. Hengfei Fan, Wenbin Yao, *A Trajectory Prediction Method with Sparsity Data*, 15th IEEE International Symposium on Parallel and Distributed Processing with Applications and 16th IEEE International Conference on Ubiquitous Computing and Communications (ISPA/IUCC), Guangzhou, China, December 2017.
183. Adrian Jablonski, *Artificial Neural Networks for Semantic Location Prediction*, Karlsruhe Reports in Informatics, Vol. 4, pp. 135-156, 2017.
184. Payam Sanaee, Payman Moallem, Farbod Razzazi, *A structural post-processing method for enhancing intensity restoration of low-density impulse-noise for decision based filters*, Journal of Visual Communication and Image Representation, First online: January 2018.
185. Payam Sanaee, Payman Moallem, Farbod Razzazi, *A structural refinement method based on image gradient for improving performance of noise-restoration stage in decision based filters*, Digital Signal Processing, First online: January 2018.
186. Radu Chis, Adrian Florea, Claudiu Buduleci, Lucian Vintan, *Multi-Objective Optimization for an Enhanced Multicore Sniper Simulator*, Proceedings of the Romanian Academy, Series A, Vol. 19, Issue 1, pages 85-93, January 2018.
187. Abubaker Mohamed Elbayoudi, *Trend Analysis for Human Activities Recognition*, PhD Thesis, Nottingham Trent University, UK, January 2018.
188. Peter Carmichael, Charles Morisset, *Learning Decision Trees from Synthetic Data Models for Human Security Behaviour*, 15<sup>th</sup> International Conference on Software Engineering and Formal Methods, pp. 56-71, Trento, Italy, September 2017, Published in Lecture Notes in Computer Science, Vol. 10729, Springer, Cham, First online: February 2018.
189. Seungkyu Hong, Kyusik Kim, Taeseok Kim, *A prefetching scheme for improving the web page loading time with NVRAM*, Journal of Semiconductor Technology and Science, Vol. 18, No. 1, pages 20-28, February 2018.

190. Atef Zaguia, *A Survey of Mobility Prediction in Ubiquitous Computing*, International Journal of Computer Science & Engineering Technology, Vol. 9, No. 2, pages 8-12, March 2018.
191. Isidoros Sideris, Daren Croxford, Andrew Burdass, *Reuse of results of back-to-back micro-operations*, US Patent No. US9933841B2, <https://patents.google.com/patent/US9933841B2>, April 2018.
192. Zaineb Liouane, *Services E-santé Basés sur la reconnaissance et la prédiction des activités quotidiennes dans les espaces intelligents*, Thèse de doctorat, École Nationale d'Ingénieurs de Monastir, Avril 2018.
193. Atef Zaguia, Darine Ameyed, Djamel Guessoum, Adel Mahfoudhi, Roobaea Alrobaea, *Mobility Prediction in Pervasive Context-Awareness System*, International Journal of Applied Engineering Research, Volume 13, Number 9, pages 6594-6607, May 2018.
194. Abdulrahman Al-Molegi, Antoni Martínez-Ballesté, Izzat Alsmadi, *Regions-of-interest discovering and predicting in smartphone environments*, Pervasive and Mobile Computing, DOI: 10.1016/j.pmcj.2018.05.001, First online: May 2018.
195. Mingming Chen, Chen Tang, Junjiang Zhang, Zhenkun Lei, *Image decomposition and denoising based on Shearlet and nonlocal data fidelity term*, Signal, Image and Video Processing, DOI 10.1007/s11760-018-1296-7, First online: May 2018.
196. Abdulrahman Al-Molegi, Antoni Martínez-Ballesté, Mohammed Jabreel, *Move, Attend and Predict: An Attention-based Neural Model for People's Movement Prediction*, Pattern Recognition Letters, Elsevier, DOI 10.1016/j.patrec.2018.05.015, First online: May 2018.
197. Anuj Pathania, *Scalable Task Schedulers for Many-Core Architectures*, PhD Thesis, DOI 10.5445/IR/1000082991, Karlsruhe Institute of Technology, Germany, May 2018.
198. Taner Eşme, *Software Engineering for Message Passing Parallel Clusters*, Boğaziçi University, Istanbul, Turkey, May 2018.
199. Karen Panetta, Long Bao, Sos Agaian, *A New Unified Impulse Noise Removal Algorithm Using a new Reference Sequence-to-Sequence Similarity Detector*, IEEE Access, DOI 10.1109/ACCESS.2018.2850518, First online: June 2018.
200. Niek Tax, *Human Activity Prediction in Smart Home Environments with LSTM Neural Networks*, 14th International Conference on Intelligent Environments, Rome, Italy, June 2018.
201. K. Shyamala, S. Kalaivani, *Application of Monte Carlo Search for Performance Improvement of Web Page Prediction*, International Journal of Engineering & Technology, Vol. 7, No. 3.4, pages 133-137, June 2018.
202. Haider Mshali, Tayeb Lemlouma, Maria Moloney, Damien Magoni, *A survey on health monitoring systems for health smart homes*, International Journal of Industrial Ergonomics, Elsevier, Vol. 66, pages 26-56, July 2018.
203. Dongbiao He, Cedric Westphal, J.J. Garcia-Luna-Aceves, *Network Support for AR/VR and Immersive Video Application: A Survey*, Proceedings of the 15th International Joint Conference on e-Business and Telecommunications, Porto, Portugal, July 2018.
204. Payam Sanaee, Payman Moallem, Farbod Razzazi, *Structure-Based Interpolation Method for Restoring the Intensity of Low Density Impulse Noise*, IET Image Processing, DOI 10.1049/iet-ipr.2017.0948, Vol. 12, Issue 9, August 2018.

205. Kasim Oztoprak, *Mobile Subscriber Profiling and Personal Service Generation using Location Awareness*, Advances in Electrical and Computer Engineering, Vol. 18, Issue 3, pages 105-112, August 2018.
206. Anuj Pathania, Jörg Henkel, HotSniper: Sniper-Based Toolchain for Many-Core Thermal Simulations in Open Systems, IEEE Embedded Systems Letters, August 2018.
207. Konstantinos N. Vavliakis, Maria Th. Kotouza, Andreas L. Symeonidis, Pericles A. Mitkas, *Recommendation Systems in a Conversational Web*, Proceedings of the 14th International Conference on Web Information Systems and Technologies (WEBIST 2018), pages 68-77, Sevilla, Spain, September 2018.
208. Flávia Casagrande, Jim Tørresen, Evi Zouganeli, *Sensor Event Prediction using Recurrent Neural Network in Smart Homes for Older Adults*, 2018 International Conference on Intelligent Systems, Funchal, Portugal, September 2018.
209. Abdulrahman Al-Molegi, Antoni Martínez Ballesté, *The Effect of Space-Time Representation Learning in Predicting People's Next Location*, 21st International Conference of the Catalan Association for Artificial Intelligence, Roses, Catalonia, Spain, October 2018.
210. Sina Shafaei, Fabian Müller, Tim Salzmänn, Morteza Hashemi Farzaneh, Stefan Kugele, Alois Knoll, *Context Prediction Architectures in Next Generation of Intelligent Cars*, 21<sup>st</sup> IEEE International Conference on Intelligent Transportation Systems, Maui, Hawaii, USA, November 2018.
211. Md. Abdul Matin, Sha Soultan Md. Oliullah, Md. Masbaul Alam Polash, *Implementation of a Customizable Algorithm Visualization Tool for E-Learning*, 2nd International Conference on Education and E-Learning, pages 32-36, Bali, Indonesia, November 2018.
212. Jaime Duque Domingo, *Integración de cámaras de rango y redes inalámbricas para la localización de personas en entornos estructurados*, PhD Thesis, Spain, 2018.
213. Ali Akkaya, *The effects of serious games on students' conceptual knowledge of object-oriented programming and computational thinking skills*, MSc Thesis, Boğaziçi University, 2018.
214. Soukaina Moujtahid, Abdessamad Belangour, Abdelaziz Marzak, *A Meta-model for Real-Time Embedded Systems*, Lecture Notes in Real-Time Intelligent Systems, Vol. 756, pages 26-34, January 2019.
215. Francisco Romaldo Mendes, *Hausdorff Path Clustering and Hidden Markov Model Applied to Person Movement Prediction in Retail Spaces*, Advances in Analytics and Applications, Springer Singapore, pages 67-76, January 2019.
216. Gulsher Baloch, Junaid Ahmed, *Enhancing proximity measure between residual and noise for image denoising*, International Journal of Computational Vision and Robotics, Vol. 9, Issue 1, pages 56-69, January 2019.
217. Konstantinos N. Vavliakis, Maria Th. Kotouza, Andreas L. Symeonidis, Pericles A. Mitkas, *Personalization and the Conversational Web*, Web Information Systems and Technologies, Springer International Publishing, January 2019.
218. Atef Zaguia, Roobaea Alroobaea, *Ontological Model to Predict user Mobility*, International Journal of Advanced Computer Science and Applications, Vol. 10, Issue 2, pages 407-413, February 2019.
219. Aycañ Çelik, Nesrin Özdener, *The Effect of Plugged and Unplugged Programming Activities on Motivation*, Journal of Academic Social Science, Vol. 7, No. 88, pages 651-669, February 2019.

220. Ladislav Végh, Veronika Stoffová, *Learning Object-Oriented Programming by Creating Games*, The 15th International Scientific Conference "eLearning and Software for Education" (eLSE 2019), Vol. 1, pages 20-29, Bucharest, April 2019.
221. Nili Tian, Bingo Wing-Kuen Ling, Changzhi Wu, Xiangyu Wang, Kok-Lay Teo, *Determination of fractional pixel location via an optimal group delay estimation approach*, Signal, Image and Video Processing, Vol. 13, pp. 1477-1485, May 2019.
222. Lucian Vintan, *Neural Branch Prediction: From the First Ideas, to Implementations in Advanced Microprocessors and Medical Applications*, Proceedings of the Romanian Academy, Series A, Vol. 20, Issue 2, June 2019.
223. Zakaria Afkir, Hatim Guermah, Mahmoud Nassar, Sophie Ebersold, *Machine Learning Based Approach for Context Aware System*, 2019 IEEE 28th International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE), Napoli, Italy, June 2019.
224. Uğur Erkan, Levent Gökrem, Serdar Enginoğlu, *Adaptive Right Median Filter for Salt-and-Pepper Noise Removal*, International Journal of Engineering Research and Development, Vol. 11, Issue 2, June 2019.
225. Katarina Tomičić Pupek, Igor Pihir, Martina Tomičić Furjan, *Smart City Initiatives in the Context of Digital Transformation – Scope, Services and Technologies*, Management: Journal of Contemporary Management Issues, Vol. 24, Issue 1, pp. 39-54, June 2019.
226. Abdulrahman Al-Molegi, *Contributions to Trajectory Analysis and Prediction: Statistical and Deep Learning Techniques*, PhD thesis, Rovira i Virgili University, Spain, June 2019.
227. Ömer Evcim, *Derin öğrenme ve istatistiksel modelleme yöntemleri ile günlük doğalgaz tüketiminin tahmini ve karşılaştırılması*, M.Sc. Thesis, Sakarya University, Turkey, June 2019.
228. R. Kurnia, F. Kurnia, Fitrilina, *Shape object selection using the chi-square method*, IOP Conference Series: Materials Science and Engineering, Vol. 602, 2019.
229. Flávia D. Casagrande, Jim Tørresen, Evi Zouganeli, *Comparison of Probabilistic Models and Neural Networks on Prediction of Home Sensor Events*, International Joint Conference on Neural Networks, Budapest, Hungary, July 2019.
230. Flávia D. Casagrande, Jim Tørresen, Evi Zouganeli, *Predicting Sensor Events, Activities, and Time of Occurrence Using Binary Sensor Data from Homes with Older Adults*, IEEE Access, Vol. 7, pp. 111012 - 111029, August 2019.
231. Uğur Erkan, Levent Gökrem, Serdar Enginoğlu, *k-Approximate Frequency Median Filter in Salt-and-Pepper Noise*, International Conference on Engineering Sciences and Technology, pp. 395-405, Prizren, Kosovo, August 2019.
232. Flávia D. Casagrande, Jim Tørresen, Evi Zouganeli, *Prediction of the Next Sensor Event and Its Time of Occurrence in Smart Homes*, Artificial Neural Networks and Machine Learning – ICANN 2019: Text and Time Series, 28th International Conference on Artificial Neural Networks, Part IV, Munich, Germany, September 2019.
233. Carmen Cheh, Uttam Thakore, Binbin Chen, William G. Temple, William Sanders, *Leveraging Physical Access Logs to Identify Tailgating: Limitations and Solutions*, 15th European Dependable Computing Conference, Naples, Italy, September 2019.
234. Erick M. Nava-Arriaga, Luis Luviano-Ortiz, Abel Hernandez-Guerrero, Enrico Sciubba, *Análisis numérico de un novedoso disipador de calor con minicanales y*

- distribuidor de flujo basado en la teoría constructal*, Memorias del XXV Congreso Internacional Anual de la SOMIM, Mazatlán, Sinaloa, México, Sept. 2019.
235. Miriam Leopoldseder, Philipp Svoboda, Lukas Eller, Markus Rupp, *Benchmarking Lightweight User Mobility Predictors on Operational WLAN Data*, 90<sup>th</sup> Vehicular Technology Conference, Honolulu, HI, USA, September 2019.
  236. Peter James Carmichael, *Modelling and validation of social influences in human security behaviour*, PhD Thesis, Newcastle University, UK, September 2019.
  237. Wenbo Zou, Jiwoong Won, Jemin Ahn, Kyungtae Kang, *Intentionality-Related Deep Learning Method in Web Prefetching*, 27<sup>th</sup> IEEE International Conference on Network Protocols (ICNP 2019), Chicago, Illinois, USA, October 2019.
  238. S. Urmela, M. Nandhini, *A framework for distributed data mining heterogeneous classifier*, Computer Communications, Vol. 147, pp. 58-75, November 2019.
  239. Carmen Cheh, Uttam Thakore, Ahmed Fawaz, Binbin Chen, William G. Temple, William H. Sanders, *Data-driven Model-based Detection of Malicious Insiders via Physical Access Logs*, ACM Transactions on Modeling and Computer Simulation, Vol. 29, No. 4, November 2019.
  240. Oscar L. Mwale, Peter K. Kihato, Agnes Mindila, *Mobile Subscriber Mobility Analytics and Prediction in Wireless Networks Using Machine Learning Techniques*, International Journal of Scientific & Technology Research, Vol. 8, Issue 11, November 2019.
  241. Flávia D. Casagrande, Evi Zouganeli, *Prediction of Next Sensor Event and its Time of Occurrence using Transfer Learning across Homes*, 16th International Conference on Computer Systems and Applications, Abu Dhabi, United Arab Emirates, November 2019.
  242. Nesrine Ben Yahia, Wissem Eljaoued, Narjès Bellamine Ben Saoud, Ricardo Colomo-Palacios, *Towards sustainable collaborative networks for smart cities co-governance*, International Journal of Information Management, 102037, First online: November 2019.
  243. Young-Hyun Oh, Hamed Mohammadbagherpoor, Patrick Dreher, Anand Singh, Xianqing Yu, Andy J. Rindos, *Solving Multi-Coloring Combinatorial Optimization Problems Using Hybrid Quantum Algorithms*, arXiv:1911.00595, December 2019.
  244. Mehmet Baris Ozkan, Dilek Küçük, Serkan Buhan, Turan Demirci, Pinar Karagoz, *Large-Scale Renewable Energy Monitoring and Forecast Based on Intelligent Data Analysis*, Handbook of Research on Smart Computing for Renewable Energy and Agro-Engineering, Chapter 3, pp. 53-77, December 2019.
  245. Isidoros Sideris, Daren Croxford, Andrew Burdass, *Preventing duplicate execution by sharing a result between different processing lanes assigned micro-operations that generate the same result*, US Patent No. US10514928B2, <https://patents.google.com/patent/US10514928B2>, December 2019.
  246. Marjuka Ferdousi Lazin, Md. Raihan ul Masood, *A Fast Interactive Geometric Shape Recognition Method*, 22nd International Conference on Computer and Information Technology, Dhaka, Bangladesh, December 2019.
  247. Khalid A. Eldrandaly, Mohamed Abdel-Basset, Laila Abdel-Fatah, *PTZ-Surveillance coverage based on artificial intelligence for smart cities*, International Journal of Information Management, Vol. 49, pp. 520-532, December 2019.
  248. Carmen Cheh, *Protecting critical infrastructure systems using cyber, physical, and socio-technical models*, PhD Thesis, University of Illinois at Urbana-Champaign, USA, 2019.
  249. Flávia Dias Casagrande, *Sensor Event and Activity Prediction using Binary Sensors in Real Homes with Older Adults*, PhD Thesis, University of Oslo, Norway, 2019.

250. Aycan Çelik-Kırçalı, *K12 Düzeyinde algoritma öğretiminde kullanılan bilgisayarlı ve bilgisayarlı araçların çeşitli değişkenler açısından değerlendirilmesi*, Yayınlanmamış yüksek lisans tezi, Marmara Üniversitesi, Eğitim Bilimleri Enstitüsü, İstanbul, 2019.
251. Christian Esposito, Florin Pop, Jun Huang, *Application of soft computing and machine learning in the big data analytics for smart cities and factories*, International Journal of Information Management: The Journal for Information Professionals, Vol. 49, Issue C, pp. 489–490, December 2019.
252. Enrique René Bastidas Puga, *Handover adaptation based on a prediction of SINR for heterogeneous mobile communication networks*, PhD Thesis, Autonomous University of Baja California, Mexoco, December 2019
253. Xiang Wu, Huanhuan Wang, Dashun Wei, Minyu Shi, *ANFIS with natural language processing and grey relational analysis based cloud computing framework for real time energy efficient resource allocation*, Computer Communications, Vol. 150, pp. 122-130, January 2020.
254. Lennart Späker, *Development of a Morphological Box to Describe Worker Assistance Systems in Production*, M.Sc. Thesis, Free University of Bozen-Bolzano, Italy, January 2020.
255. Ruben Foresti, Stefano Rossi, Matteo Magnani, Corrado Guarino Lo Bianco, Nicola Delmonte, *Smart Society and Artificial Intelligence: Big Data Scheduling and the Global Standard Method Applied to Smart Maintenance*, Engineering, Vol. 6, Issue 7, pp. 835-846, July 2020.
256. Aditya Khamparia, Babita Pandey, *Association of learning styles with different e-learning problems: a systematic review and classification*, Education and Information Technologies, Vol. 20, pp. 1303-1331, March 2020.
257. Jinze Yang, Yan Sun, Jesus Requena-Carrión, Yue Cao, *An Analytical Model for Information Centric Internet of Things Networks in Opportunistic Scenarios*, IEEE Systems Journal, Vol. 14, Issue 1, pp. 172-183, March 2020.
258. Long Bao, Karen Panetta, Sos Aгаian, *Impulse Noise Detector Performance Measure Based on Intensity Volume*, Journal of Signal Processing Systems, Vol. 92, pp. 425-434, April 2020.
259. Hong Yang, Shanshan Gong, Yaqing Liu, Zhengkui Lin, Yi Qu, *A Multi-task Learning Model for Daily Activity Forecast in Smart Home*, Sensors, Vol. 20, Issue 7, April 2020.
260. Sheng Xiao, Jing Selena He, Xi Yang, Yazhe Wang, Lu Jin, *Crosstalk Aware Register Reallocation Method for Green Compilation*, Computers, Materials & Continua, Vol.63, No.3, pp. 1357-1371, April 2020.
261. Areeg Samir, *Monitoring, Detecting, Identifying, and Healing Anomalous Workload in Clustered Computing Environments*, PhD Thesis, Free University of Bozen-Bolzano, Italy, April 2020.
262. Iman Mohammed Nayyef, Anas Ali Hussien, *Intelligent power monitoring and control with wireless sensor network techniques*, Indonesian Journal of Electrical Engineering and Computer Science, Vol. 18, No. 2, pp. 1113-1122, May 2020.
263. Jianwei Chen, Jianbo Li, Manzoor Ahmed, Junjie Pang, Minchao Lu, Xiufang Sun, *Next Location Prediction with a Graph Convolutional Network Based on a Seq2seq Framework*, KSII Transactions on Internet and Information Systems, Vol. 14, No. 5, pp. 1909-1928, May 2020.

264. Tobias Grüner, Sören Frey, Jens Nahm, Dirk Reichardt, *Exploring Spatio-temporal Movements for Intelligent Mobility Services*, 6<sup>th</sup> International Conference on Vehicle Technology and Intelligent Transport Systems, Prague, Czech Republic, May 2020.
265. Mihai Neghina, Lucian Vintan, *Apparent Front Ranking: A Novel Population Ranking Method for Genetic Multi-Objective Algorithms*, Proceedings of the Romanian Academy, Series A, Vol. 21, No. 2, pp. 179-186, June 2020.
266. Rob Dunne, Oludamilare Matthews, Julio Vega, Simon Harper, Tim Morris, *Computational Methods for Predicting Human Behaviour in Smart Environments*, University of Manchester, June 2020.
267. Vinicius Fülber-Garcia, Sérgio Luis Sardi Mergen, *LUISA: Decoupling the Frequency Model From the Context Model in Prediction-Based Compression*, The Computer Journal, July 2020.
268. Alba Sandyra Bezerra Lopes, Monica Magalhães Pereira, *A Machine Learning Approach to Accelerating DSE of Reconfigurable Accelerator Systems*, 33rd Symposium on Integrated Circuits and Systems Design, Campinas, Brazil, August 2020.
269. Muhammad Asim Mukhtar, Muhammad Khurram Bhatti, Guy Gogniat, *IE-Cache: Counteracting Eviction-Based Cache Side-Channel Attacks Through Indirect Eviction*, 35<sup>th</sup> IFIP TC 11 International Conference, pp. 32-45, Maribor, Slovenia, September 2020.
270. Behrouz Banitalebi, Srimantoorao S. Appadoo, Aerambamoorthy Thavaneswaran, *Data Driven Approach for Reduced Value at Risk Forecasts in Renewable Power Supply Systems*, 2020 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE), Ontario, Canada, September 2020.
271. K. Shyamala, S. Kalaivani, *Enhanced Webpage Prediction Using Rank Based Feedback Process*, New Trends in Computational Vision and Bio-inspired Computing, Springer, pp. 567-576, September 2020.
272. Shan L. Pan, Mingwei Li, L.G. Pee, M.S. Sandeep, *Sustainability Design Principles for a Wildlife Management Analytics System: An Action Design Research*, European Journal of Information Systems, First online: September 2020.
273. Stiene Praet, David Martens, *Efficient Parcel Delivery by Predicting Customers' Locations*, Decision Sciences, Vol. 51, Issue 5, pp. 1202-1231, October 2020.
274. Orhan Yaman, Hasan Yetis, Mehmet Karakose, *Decision Tree Based Customer Analysis Method for Energy Planning in Smart Cities*, 2020 International Conference on Data Analytics for Business and Industry: Way Towards a Sustainable Economy (ICDABI), Sakheer, Bahrain, October 2020.
275. Adrian Florea, Teodora Vasilas, *Optimizing the Integration Area and Performance of VLIW Architectures by Hardware/Software Co-design*, 7<sup>th</sup> International Conference on Modelling and Development of Intelligent Systems, Sibiu, Romania, October 2020.
276. Teodor Ghetiu, Bogdan-Constantin Pirvu, *Insights into SoRa: A Reference Architecture for Cyber-physical Social Systems in the Industry 4.0 Era*, Proceedings of the International Conference on Innovative Intelligent Industrial Production and Logistics (IN4PL 2020), pp. 47-52, Budapest, Hungary, November 2020.
277. Macarie Breazu, Daniel Volovici, Daniel Morariu, Radu George Cretulescu, *On Hagelbarger's and Shannon's matching pennies playing machines*, International Journal of Advanced Statistics and IT&C for Economics and Life Sciences, Vol. X, No. 1, ISSN 2559-365X, pp. 56-66, December 2020.

278. Oussama Laayati, Mostafa Bouzi, Ahmed Chebak, *Smart energy management: Energy consumption metering, monitoring and prediction for mining industry*, 2020 IEEE 2nd International Conference on Electronics, Control, Optimization and Computer Science (ICECOCS), Kenitra, Morocco, December 2020.
279. Chakib Nehnouch, *A new architecture for online error detection and isolation in network on chip*, Journal of High Speed Networks, Vol. 26, No. 4, pp. 307-323, December 2020.
280. Amit Prakash Sen, Nirmal Kumar Rout, *Improved probabilistic decision-based trimmed median filter for detection and removal of high-density impulsive noise*, IET Image Processing, Vol. 14, issue 17, pp. 4486-4498, December 2020.
281. Anongpun Man-Im, Weerakorn Ongsakul, Nimal Madhu, *Reliability Enhanced Multi-objective Economic Dispatch Strategy for Hybrid Renewable Energy System with Storage*, Journal of the Operations Research Society of China, 2020.
282. Mohammed Eid Awad Alqatqat, Ma Tie Feng, *Methods in Fuzzy Time Series Prediction with Applications in Production and Consumption Electric*, American Journal of Mathematics and Statistics, Vol. 10, Issue 3, pp. 79-95, 2020.
283. Azadeh Zamanifar, *Data analytics in IOT-based health care*, Data Analytics in Biomedical Engineering and Healthcare, pp. 119-130, 2021.
284. Simon Simonsson, Flávia Dias Casagrande, Evi Zouganeli, *Location Prediction in Real Homes of Older Adults based on K-Means in Low-Resolution Depth Videos*, 25th International Conference on Pattern Recognition, Milan, Italy, January 2021.
285. Michal Lom, Ondrej Pribyl, *Smart city model based on systems theory*, International Journal of Information Management, Vol. 56, p. 102092, February 2021.
286. Patrik Vostinar, *MakeCode Arcade: Interesting environment for programming 2D games*, V IEEE World Conference on Engineering Education, Guatemala, March 2021.
287. 张正航, 钱育蓉, 行艳妮, 赵鑫, *Survey of knowledge representation learning methods*, Application Research of Computers / Jisuanji Yingyong Yanjiu, Vol. 38, Issue 4, pp. 961-967, April 2021.
288. Shu Gong, Gang Hua, *Remarks on Wiener Index of Bipolar Fuzzy Incidence Graphs*, Frontiers in Physics, May 2021.
289. Muhammad Uzair Yousuf, Ibrahim Al-Bahadly, *Short-term wind speed forecasting based on hybrid MODWT-ARIMA-Markov model*, IEEE Access, May 2021.
290. Nikolaos Kolokas, Dimosthenis Ioannidis, Dimitrios Tzovaras, *Multi-Step Energy Demand and Generation Forecasting with Confidence Used for Specification-Free Aggregate Demand Optimization*, Energies, Vol. 14, Issue 11, p. 3162, May 2021.
291. Yixue Zhao, Siwei Yin, Adriana Sejfia, Marcelo Schmitt Laser, Haoyu Wang, Nenad Medvidovic, *Assessing the Feasibility of Web-Request Prediction Models on Mobile Platforms*, 8th International Conference on Mobile Software Engineering and Systems, May 2021.
292. Erick M. Nava-Arriaga, Abel Hernandez-Guerrero, J. Luis Luviano-Ortiz, Adrian Bejan, *Heat sinks with minichannels and flow distributors based on constructal law*, International Communications in Heat and Mass Transfer, Vol. 125, p. 105122, June 2021.
293. Naveen Tata, Srivasthasva Srinivas Machiraju, V. Akshay, Divyasree Mohan Menon, N.B. Sai Shibu, D. Arjun, *Prediction of Energy Consumption Using Statistical and Machine Learning Methods and Analyzing the Significance of Climate and Holidays in the Demand Prediction*, Advances in Computing and Network Communications, Lecture Notes in Electrical Engineering, Vol. 736, pp. 117-126, First online: June 2021.

294. Lennart Späker, Benedikt G. Mark, Erwin Rauch, *Development of a Morphological Box to Describe Worker Assistance Systems in Manufacturing*, 30th International Conference on Flexible Automation and Intelligent Manufacturing, pp. 168-175, Athens, Greece, June 2021.
295. E. Manohar, E. Anandha Banu, D. Shalini Punithavathani, *Composite analysis of web pages in adaptive environment through Modified Salp Swarm algorithm to rank the web pages*, Journal of Ambient Intelligence and Humanized Computing, First online: July 2021.
296. V. Juliet Rani, K.K. Thanammal, *An Extended Review on Impulse Noise Reduction for Corrupted Images*, Turkish Online Journal of Qualitative Inquiry, Vol. 12, Issue 7, 3053-3067, July 2021.
297. Ankit Rokde, Amogha Shanbhag, *A Supervised Approach for Providing Contextual Information to User Behavior in IoT Smart Home Environment*, 8th International Conference on Future Internet of Things and Cloud, Rome, Italy, August 2021.
298. Seyed Azad Nabavi, Naser Hossein Motlagh, Martha Arbayani Zaidan, Alireza Aslani, Behnam Zakeri, *Deep Learning in Energy Modeling: Application in Smart Buildings with Distributed Energy Generation*, IEEE Access, DOI 10.1109/ACCESS.2021.3110960, September 2021.
299. Long Cheng, Kai Huang, Liang Mi, Gang Chen, Alois Knoll, Xiaoqin Zhang, *Peak Temperature Analysis and Optimization for Pipelined Hard Real-Time Systems*, Information Sciences, Vol. 575, Issue 10, pp. 666-697, October 2021.
300. Milan Pisarić, Vladimir Dimitrieski, Marko Vještica, Goran Krajoski, Mirna Kapetina, *Towards a Flexible Smart Factory with a Dynamic Resource Orchestration*, Applied Sciences, Vol. 11, Issue 17, p. 7956, 2021.
301. Kausthub Keshava, Alain Jean-Marie, Sara Alouf, *Optimal Prefetching in Random Trees*, Mathematics, Vol. 9, Issue 19, p. 2437, October 2021.
302. Jinyu Wang, Yifei Kang, Yaqi Feng, Yiwen Li, Weiguo Wu, Guoliang Xing, *Lossless Compression of Bitstream Configuration Files: Towards FPGA Cloud*, 2021 IEEE International Conference on Parallel & Distributed Processing with Applications, Big Data & Cloud Computing, Sustainable Computing & Communications, Social Computing & Networking, pp. 1410-1421, New York, USA, October 2021.
303. Giancarlo Fortino, Antonella Guzzo, Michele Ianni, Francesco Leotta, Massimo Mecella, *Predicting activities of daily living via temporal point processes: Approaches and experimental results*, Computers & Electrical Engineering, p. 107567, First online: November 2021.
304. Ajay Sudhir Bale, S. Saravana Kumar, M. S. Kiran Mohan, N. Vinay, *A Study of Improved Methods on Image inpainting*, Trends and Advancements of Image Processing and its Applications, pp. 281-296, First online: November 2021.
305. Narayana Potu, Sreedhar Bhukya, Chandrashekar Jatoth, Premchand Parvataneni, *Quality-aware energy efficient scheduling model for fog computing comprised IoT network*, Computers and Electrical Engineering, p. 107603, First online: November 2021.
306. Mingcun Liu, Ce Li, Rui Yan, Yunzhi Xu, Jingyi Qiao, Feng Yang, *Enhanced Visual Pipeline Defect Detection Using Partial Convolution Image Restoration*, 2021 International Conference on Signal Processing and Machine Learning (CONF-SPML), Stanford CA, USA, November 2021.

307. Kaleeem Shaik Kaleeem, Anuradha Samkham Raju, Nabil Giweli, Ahmed Dawoud, P.W.C. Prasad, Mousa Abu Kashef, *IoT Regression Techniques In Smart Parking Systems: Survey*, 6th International Conference on Innovative Technology in Intelligent System and Industrial Applications (CITISIA), Sydney, Australia, November 2021.
308. Waheed Muhammad Sanya, Gaurav Bajpai, Haji Ali Haji, *Implementation and Optimization of Image Processing on the Map of SABRE i.MX\_6*, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol. 7, Issue 6, pp. 402-414, December 2021.
309. John Fitzgerald, Peter Gorm Larsen, Tiziana Margaria, Jim Woodcock, *Engineering of Digital Twins for Cyber-Physical Systems*, International Symposium on Leveraging Applications of Formal Methods, Verification and Validation: Tools and Trends (ISoLA 2020), Lecture Notes in Computer Science, Vol 12479. Springer, Cham, 2021.
310. O.I. Sheluhin, D.V. Kostin, M.V. Polkovnikov, *Forecasting of Computer Network Anomalous States Based on Sequential Pattern Analysis of "Historical Data"*, Automatic Control and Computer Sciences, Vol. 55, pp. 522–533, 2021.
311. Alexandru Dorobantiu, *3D Analysis of the Normal and Pathological Coronary Morphology*, PhD Thesis, Lucian Blaga University of Sibiu, 2021.
312. Adrian Florea, *Advanced research methods for multi-objective optimization of CPUs architectures*, Habilitation Thesis, Lucian Blaga University of Sibiu, 2021.
313. Gcinizwe Dlamini, Firas Jolha, Zamira Kholmatova, Giancarlo Succi, *Meta-Analytical Comparison Of Energy Consumed By Two Sorting Algorithms*, Information Sciences, Vol. 582, pp. 767-777, January 2022.
314. Yogesh K. Dwivedi, Laurie Hughes, Arpan Kumar Kar, Abdullah M. Baabdullah, Purva Grover, Roba Abbas, Daniela Andreini, Iyad Abumoghli, Yves Barlette, Deborah Bunker, Leona Chandra Kruse, Ioanna Constantiou, Robert M. Davison, Rahul De', Rameshwar Dubey, Henry Fenby-Taylor, Babita Gupta, Wu He, Mitsuru Kodama, Matti Mäntymäki, Bhimaraya Metri, Katina Michael, Johan Olaisen, Niki Panteli, Samuli Pekkola, Rohit Nishant, Ramakrishnan Raman, Nripendra P. Rana, Frantz Rowe, Suprateek Sarker, Brenda Scholtz, Maung Sein, Jeel Dharmeshkumar Shah, Thompson S.H. Teo, Manoj Kumar Tiwari, Morten Thanning Vendelø, Michael Wade, *Climate change and COP26: Are digital technologies and information management part of the problem or the solution? An editorial reflection and call to action*, International Journal of Information Management, Vol. 63, p. 102456, 2022.
315. Panagiotis Katrakazas, Marco Costantino, Federico Magnea, Liam Moore, Abdelgafar Ismail, Eleftherios Bourithis, Hasan Basri Taşkın, Zeynep Tutku Özen, İlyas Artunç Sarı, Katerina Pissaridi, Johann Bachler, Stefan Polic, Giulia Pippione, Roberto Paoletti, Rosa di Falco, Fabio Ferrario, *An Equifinality Energy Management Framework in Terms of Benchmarking Practices and Expectations: The EnerMan Project Outlook*, Systems, Vol. 10, Issue 1, 2022.
316. Shu Gong, Gang Hua, *Fuzzy edge connectivity in bipolar fuzzy networks and the applications in topology design*, International Journal of Intelligent Systems, First online: January 2022.
317. V. Juliet Rani, K. K. Thanammal, *STFTSM: noise reduction using soft threshold-based fuzzy trimmed switch median filter*, Soft Computing, First online: January 2022.

318. Binglin Wang, Liang Yan, Xiaojun Duan, Tongpu Yu, Hao Zhang, *An Integrated Surrogate Model Constructing Method: Annealing Combinable Gaussian Process*, Information Sciences, First online: January 2022.
319. Seyedvahid Vakili, Aykut I. Ölçer, Alessandro Schönborn, Fabio Ballini, Anh Tuan Hoang, *Energy-related clean and green framework for shipbuilding community towards zero-emissions: A strategic analysis from concept to case study*, International Journal of Energy Research, First online: January 2022.
320. Angela Solomon Pollock, *Accessing Energy from Artificial Intelligence Knowledge Banks Utilizing Smart Univer-“Cities”: A Qualitative Study*, PhD Thesis, Colorado Technical University, USA, February 2022.
321. Ali Akkaya, Yavuz Akpinar, *Experiential serious-game design for development of knowledge of object-oriented programming and computational thinking skills*, Computer Science Education, First online: March 2022.
322. Mario A. Tovar Rosas, Miguel Robles Pérez, E. Rafael Martínez Pérez, *Itineraries for charging and discharging a BESS using energy predictions based on a CNN-LSTM neural network model in BCS, Mexico*, Renewable Energy, First online: March 2022.
323. Amit Prakash Sen, Nirmal Kumar Rout, *A Comparative Analysis of the Algorithms for Denoising Images Contaminated with Impulse Noise*, Sensing and Imaging, Vol. 23, p. 11, March 2022.
324. Ruba Obiedat, Sara Toubasi, *A Combined Approach for Predicting Employees' Productivity based on Ensemble Machine Learning Methods*, Informatica, Vol. 46, No. 5, pp. 49-58, March 2022.
325. Shihong Liu, Shichang Du, Lifeng Xi, Yiping Shao, Delin Huang, *A Novel Analytical Modeling Approach for Quality Propagation of Transient Analysis of Serial Production Systems*, Sensors, Vol. 22, Issue 6, p. 2409, March 2022.
326. Bastian Pokorni, Daniela Popescu, Carmen Constantinescu, *Design of Cognitive Assistance Systems in Manual Assembly Based on Quality Function Deployment*, Applied Sciences, Vol. 12, Issue 8, p. 3887, April 2022.
327. Madeline Hui Li Lee, Yee Chee Ser, Ganeshsree Selvachandran, Pham Huy Thong, Le Cuong, Le Hoang Son, Nguyen Trung Tuan, Vassilis C. Gerogiannis, *A Comparative Study of Forecasting Electricity Consumption Using Machine Learning Models*, Mathematics, Vol. 10, Issue 8, p. 1329, April 2022.
328. Lijuan Tang, Kezheng Sun, Shuaifeng Huang, Guangcheng Wang, Kui Jiang, *Quality Assessment of View Synthesis Based on Visual Saliency and Texture Naturalness*, Electronics, Vol. 11, Issue 9, p. 1384, April 2022.
329. Parisa Rahimi, Amit Kumar Singh, Xiaohang Wang, *Selective Noise Based Power-Efficient and Effective Countermeasure against Thermal Covert Channel Attacks in Multi-Core Systems*, Journal of Low Power Electronics and Applications, Vol. 12, Issue 2, p. 25, May 2022.
330. Murat Ali Bayir, Ismail Hakki Toroslu, *Maximal paths recipe for constructing Web user sessions*, World Wide Web, May 2022.
331. Kurush Kasad, *Eager Scheduling of Dependent Instructions*, M.Sc. Thesis, Michigan Technological University, 2022.
332. Wei Niu, Juan Cheng, Dongxu Sun, Xiaogang Song, *Research on hybrid Markov prediction model based on clustering*, International Symposium on Computer Applications and Information Systems, Vol. 12250, May 2022.

333. Sinan Wannous, Isabel Praça, Rui Andrade, Sergio Ramos, *Photovoltaic Generation Forecasting – A Case Study*, 12th International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies, Venice, Italy, May 2022.
334. Moon Keun Kim, Bart Cremers, Jiyang Liu, Jianhua Zhang, Junqi Wang, *Prediction and Correlation Analysis of Ventilation Performance in a Residential Building Using Artificial Neural Network Models Based on Data-Driven Analysis*, Sustainable Cities and Society, p. 103981, 2022.
335. Behzad Boroujerdian, Ying Jing, Devashree Tripathy, Amit Kumar, Lavanya Subramanian, Luke Yen, Vincent Lee, Vivek Venkatesan, Amit Jindal, Robert Shearer, Vijay Janapa Reddi, *FARSI: An Early-stage Design Space Exploration Framework to Tame the Domain-specific System-on-chip Complexity*, ACM Transactions on Embedded Computing Systems, <https://doi.org/10.1145/3544016>, First online: June 2022.
336. Foziah Gazzawe, Mohammad Mayouf, Russell Lock, Ryan Alturki, *The Role of Machine Learning in E-Learning Using the Web and AI-Enabled Mobile Applications*, Mobile Information Systems, p. 3696140, 2022.
337. Sheng Xiao, Jing Selena He, Jingwen Yang, Xiaomeng Hong, Jinke Luo, *Energy Reduction Method by Compiler Optimization*, Artificial Intelligence and Security, Lecture Notes in Computer Science, Vol. 13338, pp. 672-683, 2022.
338. Abdulrahman Al-Molegi, Antoni Martínez-Ballesté, *SafeMove: Monitoring Seniors with Mild Cognitive Impairments using Deep Learning and Location Prediction*, Neural Computing and Applications, 2022.
339. M. Rajeshwari, R. Murugesan, M. Kaviyarasu, Chitirala Subrahmanyam, *Bipolar Fuzzy Graph on Certain Topological Indices*, Journal of Algebraic Statistics, Vol. 13, No. 3, p. 2476 -2481, 2022.
340. Muhammad Uzair Yousuf, *Enhancing statistical wind speed forecasting models*, PhD Thesis, Massey University, Palmerston North, New Zealand, July 2022.
341. Sergio Salimbeni, Nahuel Romera, Andrés Redchuk, *Digital Twin in a Dairy Factory*, International Symposium on Industrial Engineering and Automation: Managing and Implementing the Digital Transformation, Lecture Notes in Networks and Systems, Vol. 525, pp. 103-113, August 2022.
342. Aiguo Li, Fan Yang, Jie Yang, Wenhao Yan, *Bagging decision-making and early warning algorithm fused with temporal features*, The Second International Workshop on Automation, Control, and Communication Engineering (IWACCE 2022), Wuhan, China, August 2022.
343. Tian Gao, Dongxiao Niu, Zhengsen Ji, Lijie Sun, *Mid-term electricity demand forecasting using improved variational mode decomposition and extreme learning machine optimized by sparrow search algorithm*, Energy, Vol. 261, p. 125328, September 2022.
344. Ahmad Almadhor, K. Mallikarjuna, R. Rahul, G. Chandra Shekara, Rishu Bhatia, Wesam Shishah, V. Mohanavel, S. Suresh Kumar, Sojan Palukaran Timothy, *Solar Power Generation in Smart Cities Using an Integrated Machine Learning and Statistical Analysis Methods*, International Journal of Photoenergy, Vol. 2022, p. 5442304, September 2022.
345. David Alfaro-Viquez, Mauricio-Andres Zamora-Hernandez, Manuel Benavent-Lledo, Jose Garcia-Rodriguez, Jorge Azorin-López, *Monitoring Human Performance Through Deep Learning and Computer Vision in Industry 4.0*, 17th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2022), pp. 309–318, Salamanca, Spain, September 2022.

346. Alexandru Matei, Bogdan Constantin Pirvu, Radu Emanuil Petrus, Ciprian Candea, Bala Constantin Zamfirescu, *Designing a Multi-agent Control System for a Reconfigurable Manufacturing System*, International Workshop on Service Orientation in Holonic and Multi-Agent Manufacturing, Bucharest, September 2022.
347. Arturo Heredia Márquez, *Minado de relaciones interesantes entre objetos con clase y reducción de dimensiones*, PhD Thesis, National Polytechnic Institute, Mexico, September 2022.
348. Mohamed G. Moh Almihat, M. T. E. Kahn, Khaled Aboalez, Ali M. Almaktoof, *Energy and Sustainable Development in Smart Cities: An Overview*, Smart Cities, Vol. 5, Issue 4, pp. 389–1408, October 2022.
349. Sina Shafaei, *Enabling Context Prediction Architectures in Intelligent Vehicle Platforms*, Phd Thesis, Technical University of Munich, Germany, 2022.
350. Marlon Antonin Lehmann, *Intelligent assistance systems for assembly tasks*, The Future of Smart Production for SMEs, Springer, Cham, pp. 203-211, First online: October 2022.
351. Excellence Kuyumani, Thokozani Shongwe, Ali Hasan, *A Hybrid CNN & BiLSTM with AM Model to Predict and Estimate Load Harmonics at Nestle East London South Africa*, Authorea, October 2022.
352. Wilson Eduardo Barioni, Igor Pardal Latini, Andre Lazzaretti, Marco Teixeira, Flavio Neves, Lucia Valeria Ramos De Arruda, *AGV Detection in Industrial Environments through Computer Vision*, IEEE Latin American Robotics Symposium (LARS), pp. 1-6, São Bernardo do Campo, Brazil, October 2022.
353. Agnieszka A. Tubis, Honorata Poturaj, *Risk Related to AGV Systems – Open-Access Literature Review*, Energies, Vol. 15, Issue 23, p. 8910, November 2022.
354. Chong Zi Yong, Nureize Arbaiy, *Pre-Viva Assessment System Development for FSKTM, UTHM*, Applied Information Technology And Computer Science, Vol. 3 No. 2, pp. 1568-1588, November 2022.
355. Ezgi Guler, Suheyla Yerel-Kandemir, *Evaluation of Electricity Consumption in Turkey via Cubic Regression Analysis and One Way Anova Test*, International Conference on Technology, Engineering and Science (IconTES), The Eurasia Proceedings of Science, Technology, Engineering and Mathematics, Vol. 21, pp. 11-17, Antalya, Turkey, November 2022.
356. Dajana Antanasijević, Sonia Ristić, Marko Vieštica, Vladimir Dimitrieski, Milan Pisarić, *Towards a Formal Specification of Human Worker for Industry 4.0*, 16th International Scientific Conference on Informatics, Poprad, Slovakia, November 2022.
357. Jesper Gaarsdal, Sune Wolff, Claus B. Madsen, *Evaluating Immersive Animation Authoring in an Industrial VR Training Context*, 14th International Conference on Signal Processing Systems, pp. 809-817, Jiangsu, China, November 2022.
358. Lucas Allison, *Proxy Caching in Accenture's Employee Evolution Tree Project. A case study of it's effect on performance*, B.Sc. Thesis, Leiden University, The Netherlands, 2022.
359. Abror Buriboev, Azamjon Muminov, *Computer State Evaluation Using Adaptive Neuro-Fuzzy Inference Systems*, Sensors, Vol. 22, Issue 23, p. 9502, December 2022.
360. Shahid Nawaz Khan, Syed Ali Abbas Kazmi, Abdullah Altamimi, Zafar A. Khan, Mohammed A. Alghassab, *Smart Distribution Mechanisms – Part I: From the Perspectives of Planning*, Sustainability, Vol. 14, Issue 23, p. 16308, December 2022.

361. Mihai Neghina, Alexandru Matei, Constantin-Bala Zamfirescu, *Multimodal emotion detection from multiple data streams for improved decision making*, *Procedia Computer Science*, Vol. 214, pp. 1082-1089, 2022.
362. Lukas Budde, Roman Hänggi, Thomas Friedli, Adrian Rüedy, *Smart Factory Framework*, *Smart Factory Navigator*, Springer, pp. 33-229, December 2022.
363. Jian Gu, Yubin Lan, FanXia Kong, Lei Liu, Lili Yi, *Setting method of Downsampling Factor and Grid Factor for NDT Relocation Algorithm in Dynamic Environment*, *IEEE Access*, December 2022.
364. Darko Hercog, Primož Bencak, Uroš Vincetič, Tone Lerher, *Product Assembly Assistance System Based on Pick-To-Light and Computer Vision Technology*, *Sensors*, Vol. 22, Issue 24, p. 9769, December 2022.
365. Hendrik Oestreich, Mario Heinz-Jakobs, Philip Sehr, Sebastian Wrede, *Human-Centered Adaptive Assistance Systems for the Shop Floor*, *Human-Technology Interaction, Shaping the Future of Industrial User Interfaces*, Springer, pp. 83-125, December 2022.
366. Lozano González Jorge, Neira-Tovar Leticia, Cruz Juan, Sanchez Eduardo, *Virtual Reality Training Simulation for Controlled Land Unmanned Vehicle: A Feasibility Model*, 2nd EAI International Conference on Smart Technology, pp. 73-88, December 2022.
367. Zohaib Jan, Farhad Ahamed, Wolfgang Mayer, Niki Patel, Georg Grossmann, Markus Stumptner, Ana Kuusk, *Artificial Intelligence for Industry 4.0: Systematic Review of Applications, Challenges, and Opportunities*, *Expert Systems with Applications*, p. 119456, First online: December 2022.
368. Behzad Boroujerdian, *Agile Development of Domain-specific Solutions for Emerging Mobile Systems*, PhD Thesis, University of Texas at Austin, USA, December 2022.
369. Asad Hussain, *Sensor-Based Systems, Data Acquisition, Analysis, and Prediction Algorithms for the Energy Data of Smart Homes*, PhD Thesis, University of Bergamo, Italy, 2022.
370. Olga Shvets, Marta Seebauer, Assel Naizabayeva, Alibi Toleugazin, *Monitoring and Control of Energy Consumption Systems using Neural Networks*, *Acta Polytechnica Hungarica*, Vol. 20, No. 2, pp. 125-144, 2023.
371. Arti Rana, Kiran Dhobal, *An Improved Method of Calculating Electricity for Household Consumption and Storing Excess Electricity*, 2023 IEEE International Conference on Integrated Circuits and Communication Systems (ICICACS), Raichur, India, February 2023.
372. Xueqing Liao, *Construction of Intelligent Recommendation Retrieval Model of FuJian Intangible Cultural Heritage Digital Archives Resources*, *Intelligent Automation & Soft Computing*, Vol. 37, Issue 1, pp. 677-690, February 2023.
373. Keyao Lin, Juhua Hong, Linyao Zhang, Zhenda Hu, Lin Liu, Xiaofeng Li, Yangzi Chen, *Research on New Investment Demand Forecast of Power Grid Company After Investment Interface Extension*, 2nd International Academic Conference on Blockchain, Information Technology and Smart Finance, Hangzhou, China, February 2023.
374. Amit Prakash Sen, Tuhinansu Pradhan, Nirmal Kumar Rout, Anup Kumar, *Comparison of Algorithms for the removal of Impulsive noise from an Image*, *e-Prime - Advances in Electrical Engineering, Electronics and Energy*, Vol. 3, p. 100110, March 2023.
375. Philippe de Bekker, Sho Cremers, Sonam Norbu, David Flynn, Valentin Robu, *Improving the Efficiency of Renewable Energy Assets by Optimizing the Matching of Supply and*

- Demand Using a Smart Battery Scheduling Algorithm*, *Energies*, Vol. 16, Issue 5, p. 2425, March 2023.
376. Pengyi Jia, Xianbin Wang, Xuemin Shen, *Accurate and Efficient Digital Twin Construction Using Concurrent End-to-End Synchronization and Multi-Attribute Data Resampling*, *IEEE Internet of Things Journal*, Vol. 10, Issue 6, pp. 4857-4870, March 2023.
  377. Mingyuan Dai, Liangpeng Li, Yilin Lu, Liwei Xiao, Xuemei Zong, Chenglong Tu, Fanjian Meng, Yong Tang, Dongliang Guo, *Research on Holographic Visualization Verification Platform for Construction Machinery Based on Mixed Reality Technology*, *Applied Sciences*, Vol. 13, Issue 6, p. 3692, March 2023.
  378. R. R. Lekshmi, C. Bansi, *A Demand Management Planning System for a Meat Factory Based on the Predicted Market Price Under Indian Market Scenario*, *Proceedings of Fourth International Conference on Communication, Computing and Electronics Systems, Lecture Notes in Electrical Engineering*, Vol. 977, pp. 439-450, March 2023.
  379. Tiago Silveira Gontijo, *Essays on electricity price forecasting*, PhD Thesis, Universidade Federal de Minas Gerais, Brasil, March 2023.
  380. S. Ishwarya, S. Akash, R. Kathireswar, B. Keerthana, R. Keerthivasan, *Smart energy modeling in buildings with distributed energy generation by using Discrete Wavelet Transform-LSTM method*, 9th International Conference on Electrical Energy Systems (ICEES), Chennai, India, March 2023.
  381. Jonah Edmonds, Zahraa S. Abdallah, *IMG-NILM: A Deep learning NILM approach using energy heatmaps*, 38th ACM/SIGAPP Symposium on Applied Computing, pp. 1151–1153, Tallinn, Estonia, March 2023.
  382. Jiwoong Won, Wenbo Zou, Ahn Jemin, Jiseoup Lim, Gun-Woo Kim, Kyungtae Kang, *Proxy-based Web Prefetching Exploiting Long Short-Term Memory*, 38th ACM/SIGAPP Symposium on Applied Computing, pp. 1831–1834, Tallinn, Estonia, March 2023.
  383. Theodoros Theodoropoulos, Antonios Makris, Ioannis Kontopoulos, John Violos, Przemysław Tarkowski, Zbyszek Ledwoń, Patrizio Dazzi, Konstantinos Tserpes, *Graph neural networks for representing multivariate resource usage: A multiplayer mobile gaming case-study*, *International Journal of Information Management Data Insights*, Vol. 3, Issue 1, p. 100158, April 2023.
  384. Tiago Silveira Gontijo, Marcelo Azevedo Costa, Rafael Isaac Dos Santos, Rodrigo Barbosa de Santis, *Electricity Price Forecasting: a Systematic Literature Review Informed by Text Mining*, *Revista de Administração Contabilidade e Economia da Fundace*, Vol. 14, No. 1, April 2023.
  385. Yingshan Chen, Xianghui Xu, Xu Zhang, Vijay P. Singh, Mo Li, *Weather-driven synergistic water-economy-environment regulation of farmland ecosystems*, *Science of The Total Environment*, p. 163342, First online: April 2023.
  386. Andrzej Pacana, Karolina Czerwińska, Grzegorz Ostasz, *Analysis of the Level of Efficiency of Control Methods in the Context of Energy Intensity*, *Energies*, Vol. 16, Issue 8, p. 3507, April 2023.
  387. Adrian Florea, Daniel-Ioan Popa, Daniel Morariu, Ionela Maniu, Lasse Berntzen, Ugo Fiore, *Digital farming based on a smart and user-friendly IoT irrigation system: A conifer nursery case study*, *IET Cyber-Physical Systems: Theory & Applications*, First online: April 2023.

388. Seyedvahid Vakili, *A systematic, holistic and transdisciplinary energy management framework to promote environmentally sustainable shipyards*, PhD Thesis, World Maritime University, Malmö, Sweden, April 2023.
389. Kung-Jeng Wang, Chiuhsiang Joe Lin, Ahmed Abide Tadesse, Bereket Haile Woldegiorgis, *Modeling of human–robot collaboration for flexible assembly – a hidden semi-Markov-based simulation approach*, The International Journal of Advanced Manufacturing Technology, May 2023.
390. Lin Jiang, Anthony Dowling, Ming-C. Cheng, Yu Liu, *PODTherm-GP: A Physics-based Data-Driven Approach for Effective Architecture-Level Thermal Simulation of Multi-Core CPUs*, arXiv:2305.01911, May 2023.
391. Miguel López Santos, Saúl Díaz García, Xela García-Santiago, Ana Ogando-Martínez, Fernando Echevarría Camarero, Gonzalo Blázquez Gil, Pablo Carrasco Ortega, *Deep learning and transfer learning techniques applied to short-term load forecasting of data-poor buildings in local energy communities*, Energy and Buildings, May 2023.
392. Ashpreet, *A Comparative Review for Color Image Denoising*, In: Examining Multimedia Forensics and Content Integrity, IGI Global, First Edition, pp. 79-117, May 2023.
393. Riyadzh Mahmudh, Mst Sharmin Kader, Han Xioaqing, *Improved Extreme Learning Machine Power Load Forecasting Based on Firefly Optimization Algorithms*, International Journal of Advanced Engineering Research and Science, Vol. 10, Issue 5, May 2023.
394. Han Wu, Yan Liang, Jiani Heng, *Pulse-diagnosis-inspired multi-feature extraction deep network for short-term electricity load forecasting*, Applied Energy, Vol. 339, p. 120995, June 2023.
395. Saeid Fatemi, Abbas Ketabi, Seyed Amir Mansouri, *A four-stage stochastic framework for managing electricity market by participating smart buildings and electric vehicles: Towards smart cities with active end-users*, Sustainable Cities And Society, Vol. 93, p. 104535, June 2023.
396. Lemai Nguyen, Michael Lane, Kaushalya Nallaperuma, Emre Deniz, *A Socio-Ecological-Technical Perspective: How has Information Systems Contributed to Solving the Sustainability Problem*, 31st European Conference on Information Systems (ECIS 2023), p. 304, Kristiansand, Norway, June 2023.
397. S. Mahipal, V.C. Sharmila, *A Security Framework for Improving QoS by Detecting and Mitigating Cache Side-Channel Attacks in Virtualized Environments*, IAENG International Journal of Computer Science, Vol. 50, Issue 2, p. 29, June 2023.
398. Lixiong Lin, Zhiping Xu, Jiachun Zheng, *Predefined Time Active Disturbance Rejection for Nonholonomic Mobile Robots*, Mathematics, Vol. 11, Issue 12, p. 2704, June 2023.
399. Shamaila Iram, Hussain Al-Aqrabi, Hafiz Muhammad Shakeel, Hafiz Muhammad Athar Farid, Muhammad Riaz, Richard Hill, Prabanchan Vethathir, Tariq Alsboui, *An Innovative Machine Learning Technique for the Prediction of Weather Based Smart Home Energy Consumption*, IEEE Access, First online: June 2023.
400. Dajana Antanasijević, Sonja Ristić, Marko Vještica, Darko Stefanović, Vladimir Dimitrieski, Milan Pisarić, *A Prototype of a Domain-Specific Modeling Language for Formal Specification of a Human Worker*, Acta Electrotechnica et Informatica, Vol. 23, Issue 2, June 2023.
401. Dajana Antanasijević, Marko Vještica, Vladimir Dimitrieski, Leposava Grubić-Nešić, Sonja Ristic, Milan Mirko Pisaric, *An Organizational Perspective of Human Resource Modeling*, IPSI Transactions on Internet Research, Vol. 19, Issue 2, pp. 64-76, July 2023.

402. Péter Dobra, János Jósmai, *A Novel Adaptive Model for Overall Equipment Effectiveness Prediction*, Proceedings of IAC 2023 in Vienna, pp. 77-59, Vienna, Austria, July 2023.
403. Ying Guo, *Metaverse-enabled fine art appreciation: an aesthetic based on visual expression*, International Journal of Computer Applications in Technology, Vol. 71, No. 3, pp. 192-199, July 2023.
404. Sadegh Afzal, Behrooz M. Ziapour, Afshar Shokri, Hamid Shakibi, Behnam Sobhani, *Building energy consumption prediction using multilayer perceptron neural network-assisted models; comparison of different optimization algorithms*, Energy, p. 128446, July 2023.
405. P.N. Seema, Manjula G. Nair, *The key modules involved in the evolution of an effective instrumentation and communication network in smart grids: a review*, Smart Science, July 2023.
406. Sigurd Schacht, Carsten Lanquillon, Sophie Henne, Elena Schmid, Vanessa Mehlin, *Kognitive Assistenzsysteme*, Knowledge Science – Fallstudien, Springer, pp. 21–32, July 2023.
407. Doaa Muhsin Abd Ali, Yasmin Makki Mohialde, Nadia Mahmood Hussien, *Use of a Gradient Boosting Algorithm to Accurately Predict Solutions to Complex Equations*, Scientific Research Journal of Engineering and Computer Science, Vol. 3, Issue 4, pp. 22-28, July 2023.
408. Tongke Fan, *Research on Multirelational Entity Modeling based on Knowledge Graph Representation Learning*, Recent Advances in Computer Science and Communications, Vol. 16, No. 8, pp. 38-44, July 2023.
409. Zainab abed Almoussawi, Waleed Hadi Madhloom Kurdi, Basma Mohammed Khaleel, Kassem AL-Attabi, Hawraa Ali Sabah, Waleed Khalid Alazzai, *Planet Optimization with Machine Learning Enabled Power Usage Forecasting Modeling in Smart Grid Environment*, 6th International Conference on Engineering Technology and its Applications (IICETA), Al-Najaf, Iraq, July 2023.
410. Iryna Osadcha, Andrius Jurelionis, Paris Fokaides, *Geometric parameter updating in digital twin of built assets: A systematic literature review*, Journal of Building Engineering, Vol. 73, p. 106704, August 2023.
411. Maximilian Rettinger, Gerhard Rigoll, *Touching the future of training: investigating tangible interaction in virtual reality*, Frontiers in Virtual Reality, Vol. 4, August 2023.
412. Eyob Messele Sefene, Yueh-Hsun Tsai, Muhammad Jamil, Vijaykumar S. Jatti, Akshansh Mishra, Assefa AsmareTsegaw, Erick Cardoso Costa, *A Multi-Criterion Optimization of Mechanical Properties and Sustainability Performance in Friction Stir Welding of 6061-T6 AA*, Materials Today Communications, p. 106838, August 2023.
413. M.J. Ritchie, J.A.A. Engelbrecht, M.J. Booysen, *Predicting residential water and electricity usage profiles with a temporal histogram model*, Sustainable Cities and Society, p. 104884, August, 2023.
414. Tobias Krogh Risom, Jonas Rommel Attrup, Rasmus Valentin Jacobsen, Stefan Alexander Larsen, Jesper Gaarsdal, *A Comparative Analysis of Multi-Object Animation with Motion Paths in Virtual Reality*, IFIP Conference on Human-Computer Interaction, pp. 363-367, York, UK, August 2023.
415. Pengyi Jia, Xianbin Wang, *A new virtual network topology based digital twin for spatial-temporal load-balanced user association in 6G HetNets*, IEEE Journal on Selected Areas in Communications, August 2023.

416. Sourabh Deshpande, Aditi Roy, Joshua Johnson, Ethan Fitz, Manish Kumar, Sam Anand, *Smart monitoring and automated real-time visual inspection of a sealant applications (SMART-VIS<sub>t</sub>A)*, Manufacturing Letters, Elsevier, Vol. 35, pp. 1134-1145, August 2023.
417. Rubén Álvarez, Rubén Ferrero-Guillén, Paula Verde, Alberto Martínez-Gutiérrez, Javier Díez-González, Hilde Perez, *Time of Arrival Error Characterization for Precise Indoor Localization of Autonomous Ground Vehicles*, 18th International Conference on Hybrid Artificial Intelligence Systems, pp. 421-432, Salamanca, Spain, September 2023.
418. A. Cabrera, L.G.B. Ruiz, D. Criado-Ramón, C.D. Barranco, M.C. Pegalajar, *Application of Fuzzy and Conventional Forecasting Techniques to Predict Energy Consumption in Buildings*, International Journal of Intelligent Systems, Vol. 2023, p. 4391555, September 2023.
419. Lilia Zaourar, Alice Chillet, Jean-Marc Philippe, *A-DECA: an Automated Design space Exploration approach for Computing Architectures to develop efficient high-performance many core processors*, 26th Euromicro Conference Series on Digital System Design, pp. 756-763, Durres, Albania, September 2023.
420. Angela Carrera-Rivera, Daniel Reguera-Bakhache, Felix Larrinaga, Ganix Lasa, *Exploring the transformation of user interactions to Adaptive Human-Machine Interfaces*, XXIII International Conference on Human Computer Interaction, Article No. 23, Lleida, Spain, September 2023.
421. Lei Fang, Bin He, *A deep learning framework using multi-feature fusion recurrent neural networks for energy consumption forecasting*, Applied Energy, Vol. 348, p. 121563, October 2023.
422. Lin Jiang, Anthony Dowling, Ming-C. Cheng, Yu Liu, *PODTherm-GP: A Physics-based Data-Driven Approach for Effective Architecture-Level Thermal Simulation of Multi-Core CPUs*, IEEE Transactions on Computers, Vol. 72, Issue 10, pp. 2951-2962, October 2023.
423. Jolanta Brzozowska, Arkadiusz Gola, Monika Kulisz, *Problems of forecasting the length of the assembly cycle of complex products realized in the MTO (make-to-order) model*, Technologia i Automatyzacja Montażu, Vol. 121, Issue 3, pp. 13-20, October 2023.
424. Ninu G. Hari, G. Jisha, *Analysing the geographical impact on short-term solar irradiance forecasting using univariate and multivariate time series models*, Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Vol. 45, Issue 4, pp. 11981–11999, October 2023.
425. Dawid Połap, Gautam Srivastava, Antoni Jaszcz, *Energy Consumption Prediction Model for Smart Homes via Decentralized Federated Learning with LSTM*, IEEE Transactions on Consumer Electronics, October 2023.
426. Hongyang Zhang, Rong Jia, Haodong Du, Yan Liang, Jiangfeng Li, *Short-term interval prediction of PV power based on quantile regression-stacking model and tree-structured parzen estimator optimization algorithm*, Frontiers in Energy Research, Vol. 11, November 2023.
427. Archana Boob, Mansi A. Radke, *2D Shape Detection for Solving Geometry Word Problems*, IETE Journal of Research, Taylor & Francis, November 2023.
428. P.T. Supriya, R. Prakash, *Solar Panel Cleaning System Using Smart Hybrid Embedded Systems with IoT Assistance*, Electric Power Components and Systems, November 2023.
429. Mete Korhan Özkök, Zekiye Yenen, *A method proposal to detect user movement patterns in urban space: The case of Edirne-Kaleiçi\**, Sigma Journal of Engineering and Natural Sciences, Vol. 41, Issue 6, pp. 1157-1176, December 2023.

430. Clara Mouawad, *Action Classification and Anticipation using Graph Neural Networks*, MSc Thesis, University of Genova, December 2023.
431. Katarzyna Prokop, Dawid Połap, Gautam Srivastava, *AGV Quality of Service Throughput Prediction via Neural Networks*, 2023 IEEE International Conference on Big Data, Sorrento, Italy, December 2023.
432. Jolanta Brzozowska, Monika Kulisz, Arkadiusz Gola, *Identyfikacja sygnałów wejściowych w procesie szacowania długości cyklu montażu wyrobów złożonych z wykorzystaniem sztucznych sieci neuronowych*, Inżynieria zarządzania: cyfryzacja produkcji, Aktualności badawcze 5, pp. 627-635, 2023.
433. Erik Rohkohl, *Temporal production modeling for continuous battery cell process steps*, Vulkan Verlag, 2023.
434. Noman Khan, Samee Ullah Khan, Sung Wook Baik, *Deep Autoencoder-Based Hybrid Network for Building Energy Consumption Forecasting*, Computer Systems Science and Engineering, 2023.
435. T. Mohanaprakash, M. Mutharasu, T. Saravanan, S. Raja, A.A.V. Sweety, *Enhancing Energy Efficiency in Smart Cities: Advanced ANN and Decision Tree Model for Solar Energy with IoT and Cloud Server*, International Journal of Intelligent Systems and Applications in Engineering, Vol. 12, Issue 2, pp. 10-19, 2024.
436. Biao LI, Zhiwei Xing, Liwen Wang, *Dynamic prediction for aircraft ground deicing operation process*, Journal of Beijing University of Aeronautics and Astronautics, Vol. 50, Issue 1, pp. 224-233, January 2024.
437. Priya Bijalwan, Ashulekha Gupta, Anubhav Mendiratta, Amar Johri, Mohammad Asif, *Predicting the Productivity of Municipality Workers: A Comparison of Six Machine Learning Algorithms*, Economies, Vol. 12, Issue 1, p. 16, January 2024.
438. Arunava Bandyopadhyay, Bishal Dey Sarkar, Md. Emran Hossain, Soumen Rej, Mohidul Alam Mallick, *Modelling and forecasting India's electricity consumption using artificial neural networks*, OPEC Energy Review, January 2024.
439. Beyza Özdem, Muharrem Düğenci, Mümtaz Ipek, *Determination of Electricity Production by Fuzzy Logic Method*, Academic Platform Journal of Engineering and Smart Systems, Vol. 12, Issue 1, pp. 14-20, January 2024.
440. Marcello Urgo, Francesco Berardinucci, Pai Zheng, Lihui Wang, *AI-Based Pose Estimation of Human Operators in Manufacturing Environments*, CIRP Novel Topics in Production Engineering, Vol. 1, pp. 3-38, February 2024.
441. Mihai Neghina, Alina-Ioana Dicoiu, Radu Chis, Adrian Florea, *A competitive new multi-objective optimization genetic algorithm based on apparent front ranking*, Engineering Applications of Artificial Intelligence, Vol. 132, p. 107870, June 2024.

February, 2024

Dr. Árpád GELLÉRT