PUBLICATIONS, PROJECTS AND CITATIONS

A. List of Publications

1. **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 (Scopus), January 2022.
2. 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.
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4. 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.
5. Stefan-Alexandru Precup, **Arpad Gellert**, Alexandru Dorobantiu, Constantin-Bala Zamfirescu, *Assembly Process Modeling Through Long Short-Term Memory*, 13th Asian Conference on Intelligent Information and Database Systems, ISSN 1865-0929 (indexed DBLP), pp. 28-39, Phuket, Thailand, April 2021.
6. **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.
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10. **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.

11. Claudiu Buduleci, **Árpád Gellért**, Adrian Florea, Radu Chiș, 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.
12. Nicolae-Adrian Tocu, **Arpad Gellert**, Ioana-Ramona Stefan, Teodor-Marian Nitescu, Gabriela-Alexandra Luca, *The impact of virtual reality simulators in manufacturing industry*, 12th Annual International Conference on Education and New Learning Technologies, ISBN 978-84-09-17979-4, pages 3084-3093, Palma de Mallorca, Spain, July 2020.
13. **Arpad Gellert**, Constantin-Bala Zamfirescu, *Using Two-Level Context-Based Predictors for Assembly Assistance in Smart Factories*, Intelligent Methods in Computing, Communications and Control: 8th International Conference on Computers Communications and Control, Springer, ISBN 978-303-053-650-3 (indexed Scopus), pages 167-176, Oradea, May 2020.
14. **Árpád Gellért**, *Analiza şi proiectarea algoritmilor: o abordare pragmatică prin aplicaţii Java*, Ediția a 2-a, Editura Techno Media, ISBN 978-606-616-360-6, 2019.
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18. **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.
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47. **Árpád Gellért**, *Advanced Prediction Methods Integrated Into Speculative Computer Architectures*, PhD Thesis, Computer Science Department, "Lucian Blaga" University of Sibiu, November 2008.
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B. Projects

1. Director*, Modelarea proceselor de asamblare asistată a produselor prin metode de inteligență artificială*, Grant LBUS-IRG-2021-07, 2021-2024, 12.000 lei.
2. Member (director Constantin-Bala Zamfirescu), *Ingineria învățării automate în Digital Twin*, Grant LBUS-HPI-ERG-2020-03, 2021-2023, 750.000 lei.
3. Director, *Modelare și estimare prin metode avansate de predicție*, Grant LBUS-IRG-2020-06, 2020-2023, 12.000 lei.
4. Director, *Tehnici de predicție a consumului și a producției de energie electrică în clădiri*, Grant LBUS-IRG-2019-05, 2019-2022, 11.875 lei.
5. 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.
6. Director, *Metode de anticipare statistice în sisteme de gestiune a energiei electrice*, Grant LBUS-IRG-2018-04, 2018-2020, 9.000 lei.
7. Member (director Gabriel Leahu), *Personalul didactic din învăţământul preuniversitar şi universitar de stat – promotor al învăţării pe tot parcursul vieţii*, Proiect POSDRU/174/1.3/S/149155, 2014.
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9. 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.
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August, 2021 Dr. Árpád GELLÉRT