

Lista de lucrări

A. Lista lucrărilor publicate în reviste indexate ISI

1. **Cosmina Corches**, Mihai Daraban, Liviu Miclea, "Availability of a RFID Object Identification System in IoT Environment", *Sensors*, ISSN 1424-8220, special issue "Smart Sensors for Remotely Operated Robots", Vol 21, Issue 18, article number: 6226, DOI: 10.3390/s21186220, Published: SEP 2021 (indexat ISI Q2 INSTRUMENTS & INSTRUMENTATION, open access).
2. Ovidiu Petru Stan, Szilard Enyedi, **Cosmina Corches**, Stelian Flonta, Iulia Stefan, Dan Gota, Liviu Miclea, "Method to Increase Dependability in a Cloud-Fog-Edge Environment", *Sensors*, ISSN 1424-8220, Volume 21, Issue14, Article Number: 4714, DOI: 10.3390/s21144714, Published: JUL 2021, (indexat ISI Q2 INSTRUMENTS & INSTRUMENTATION, open access).
3. **Corches Cosmina**, Daraban Mihai, Stan Ovidiu, Enyedi Szilard, Miclea Liviu, "Interconnection of Systems with Cloud-Fog-Edge architectures: Concept and Challenges", *CONTROL ENGINEERING AND APPLIED INFORMATICS*, ISSN: 1454-8658, Volume 23, Issue 1, Pages: 60-71, Published: 2021, Accession Number: WOS:000634893300007 (ISI Q4, IF: 0.775 (2019), open access).

B. Lista lucrărilor publicate în reviste indexate BDI

1. Liviu-Cristian Miclea, Alexandru Ciobotaru, Marius Misaros, **Cosmina Corches**, "Dependable Cyber-Physical Systems: concepts, challenges and case studies", In *Journal of Engineering Sciences and Innovation (JESI)*, Volume 8, Issue 4/2023, ISSN 2601 -6699, Pages. 433-447, Acceptat în curs de publicare.

C. Lista lucrărilor publicate indexate ISI WEB OF SCIENCE, SCOPUS, IEEE XPLORE

1. **Cosmina Corches**, Mihai Daraban, Liviu Miclea, "Monitoring Hospital Activity Through Petri Nets," 2023 IEEE 29th International Symposium for Design and Technology in Electronic Packaging (SIITME), Acceptat în curs de publicare.
2. Teodora Cernat, Mihai Daraban, **Cosmina Corches**, Gabriel Chindris, "Preemptive Real Time Operating System for Low Power Microcontrollers," 2023 IEEE 29th International Symposium for Design and Technology in Electronic Packaging (SIITME), Acceptat în curs de publicare.



3. Raul Chechisan, Mihai Daraban, **Cosmina Corches**, Gabriel Chindris, "Embedded Scheduler with Task Reset Capabilities," 2023 IEEE 29th International Symposium for Design and Technology in Electronic Packaging (SIITME), Acceptat în curs de publicare.
4. Mihai Daraban, **Cosmina Corches**, Raul Fizesan, Gabriel Chindris, "Real-Time Embedded Framework Debugger," 2022 IEEE 28th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2022, pp.36-39, doi: 10.1109/SIITME56728.2022.9988403.
5. Mihai Daraban, **Cosmina Corches**, Adrian Taut, Gabriel Chindris, "Protocol over UART for Real-Time Applications," 2021 IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2021, pp.85-88, doi: 10.1109/SIITME53254.2021.9663605.
6. **Cosmina Corches**, Ionut-Catalin Donca, Ovidiu Stan, Liviu Miclea and Mihai Daraban, "Analyzing the RFID Failure Impact on Availability of IoT Services," 2020 IEEE 26th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2020, pp. 163-168, doi: 10.1109/SIITME50350.2020.9292209 (Articol Premiat).
7. Ionut-Catalin Donca, **Cosmina Corches**, Ovidiu Stan and Liviu Miclea, "Autoscaled RabbitMQ Kubernetes Cluster on single-board computers," 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), 2020, pp. 1-6, doi: 10.1109/AQTR49680.2020.9129886
8. **Cosmina Corches**, Ovidiu Stan, Liviu Miclea and Mihai Daraban, "Embedded RTOS for a Smart RFID Reader," 2019 IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2019, pp. 220-223, doi: 10.1109/SIITME47687.2019.8990817.

D. Teza de doctorat

Tehnici de dependabilitate pentru sisteme cu arhitecturi Cloud-Fog-Edge - Dependability techniques for systems with Cloud-Fog-Edge architectures

Universitatea Tehnică din Cluj-Napoca, data susținerii: 26.11.2021



E. Listă participare în contracte de cercetare

1. Membru echipă cercetare proiect ROBIN - „Roboții și Societatea: Sisteme Cognitive pentru Roboți Personali și Vehicule Autonome” (NR. 72PCCDI / 2018, cod proiect PN-III-P1-1.2-PCCDI-2017-0734) de tip Complex finanțat de UEFISCDI, director proiect Prof.dr.ing. Liviu Cristian Miclea, Perioada 2018-2021.
2. Membru echipă cercetare proiect intern “Creșterea dependabilității și securității în sisteme de tip Cloud-Fog-Edge”, responsabil proiect Liviu Cristian Miclea, Perioada 2021-2022.

F. Cărți publicate

1. **Cosmina Corcheș**, Alexandru Ciobotaru, Marius Misaroș, Liviu-Cristian Miclea, "Fundamentele programării în C: de la bazele teoretice la implementare", Ed. UTPRESS, Cluj-Napoca, ISBN 978-606-737-682-1, pag. 111, 2023.

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