

Lista de Lucrări

– publicate de dr.ing. Corneliu ZAHARIA –

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6 articole indexate ISI

– International Science Index – Web of Science – Core Collection, Clarivate Analytics

(aceste articole sunt indexate și Scopus și IEEE Xplore)

1. Zaharia, C., Sandu, F., & Balan, A. (2020, December). Usage of Asymmetric Small Binning to Compute Histogram of Oriented Gradients for Edge Computing Image Sensors. In *2020 19th RoEduNet Conference: Networking in Education and Research (RoEduNet)* (pp. 1-6). IEEE.
2. Machidon, O., Sandu, F., Zaharia, C., Cotfas, P., & Cotfas, D. (2014, May). Remote SoC/FPGA platform configuration for cloud applications. In *2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)* (pp. 827-832). IEEE. [17 citări, din care 7 în publicații ISI]
3. Zaharia, C., Dinu, D., & Caliman, A. (2017, May). PVANet optimization for person detection. In *2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP)* (pp. 959-964). IEEE. [1 citare]
4. Zaharia, C., Bigioi, P., & Corcoran, P. M. (2011, January). Hybrid video-frame pre-processing architecture for HD-video. In *2011 IEEE International Conference on Consumer Electronics (ICCE)* (pp. 89-90). IEEE. [9 citări, din care 4 în publicații ISI]
5. Bigioi, P., Zaharia, C., & Corcoran, P. (2012, January). Advanced hardware real time face detector. In *2012 IEEE International Conference on Consumer Electronics (ICCE)* (pp. 528-529). IEEE. [indexată și IEEE Xplore ; 15 citări, din care 7 în publicații ISI]
6. Nica, A., Balan, A., Zaharia, C., & Balan, T. (2021, February). Automated Testing of GUI Based Communication Elements. In *International Conference on Remote Engineering and Virtual Instrumentation* (pp. 380-390). Springer, Cham.

1 articol indexat (doar) SCOPUS – în curs de indexare ISI

Zaharia, C., Sandu, F., & Danciu, G. (2021, November). Adaptive Scaling for Image Sensors in Embedded Security Applications. In *2021 20th RoEduNet Conference: Networking in Education and Research (RoEduNet)* -. IEEE.

1 volum de specialitate

Nicula, D., Ionita, M., Zaharia, C., Tulbure, T., Jipa, R., Denes, N. - Limbaje de descriere hardware - Aplicații - Universitatea "Transilvania" din Brașov, (2002) – Cota bibliotecii UniTBv: III 16863; autor la capitolul 2: "Etapile simulării cu ModelSim" și la capitolul 6: "Modelarea și testarea registrelor"

25 grupuri de patente indexate în Clarivate Analytics Web of Science - Derwent Innovations Index

Conceptele inovatoare au fost propuse pentru patentare în mai multe țări (cu indicativele US, CN, KR, JP, TW, etc), grupuri de țări (indicativ EP pentru European Patent Office) sau pe plan mondial (indicativ WO pentru World Patent Office). Au fost evidențiate 25 de grupe de patente – pentru fiecare indexare, pe lângă prefixele ce corespund cu indicativele menționate anterior, sufixele A și B corespund, respectiv, cererii de brevetare și patentului acordat. Citările sunt extrase din baza de date Google Academic. Cele 6 cazuri de continuări de patente sunt marcate în paranteze drepte și sunt ordonate cronologic.

1. Sultana, B., Petrescu, S., Nicolau, R., Ursachi, V. I., Bigioi, P., Zaharia, C., Corcoran P., Fulop, S. & Gangea, M. – „Face Or Other Object Detection Including Template Matching” [Hardware] - 2012 - DIIDW:2012F08407 [52 citări]
Brevete: US2012106790-A1; US8995715-B2
2. Sultana, B., Petrescu, S., Nicolau, R., Ursachi, V. I., Bigioi, P., Zaharia, C., Corcoran P., Fulop, S. & Gangea, M. – „Face Or Other Object Detection Including Template Matching” [Multiple data processing] – 2015 - DIIDW:201541872D [7 citări]
Brevete: US2015206030-A1; US9639775-B2
3. Nicoara, N., Raceala, C., Zaharia, C., Fulop, S., & Iovita, O. - "Image processing system" [Prefiltering] - 2017 - DIIDW:2017433617 [4 citări]
Brevete: US2017185864-A1; WO2017108222-A1; EP3213257-A1; EP3213257-B1; CN108431824-A; US10460198-B2
4. Nicoara, N., Raceala, C., Zaharia, C., Fulop, S., & Iovita, O. - "Image processing system" [Specific - Windowing] - 2020 - DIIDW: 202012929
Brevet: US2020050885-A1
5. Nicoara, N., Raceala, C., Zaharia, C., Fulop, S., & Iovita, O. - "Image processing system" [Generic] - 2020 - DIIDW: 2020C0641
Brevet: US2020380291-A1
6. Munteanu, M. C., Georgescu, V., Zaharia, C., & Suci, I. - "Method for producing a histogram of oriented gradients" - 2018 - DIIDW:201722756Q [4 citări]
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7. Zaharia, C., Bigioi, P., & Corcoran, P. - "Real-time video frame pre-processing hardware" - 2019 - DIIDW:2012A62692 [26 citări]
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8. Fulop S., Zaharia, C., & Bigioi, P. - "*Multi-processor neural network processing apparatus*" - 2020 - DIIDW: 202050355Q
Brevete: US2020184321-A1; EP3668015-A2; CN111311476-A; EP3668015-A3; EP3668015-B1
9. Munteanu, M., Pososin, A., Stec, P., & Zaharia, C. - "*Method and system for correcting a distorted input image*" [*Image Stabilization*]- 2014 - DIIDW:2014A78350 [20 citări]
Brevete: US2014009568-A1; WO2014005783-A1; US8928730-B2; EP2870585-A1; EP2870585-B1
10. Stec, P., Pososin, A., Munteanu, M., & Zaharia, C. - "*Method and system for correcting a distorted input image*" [*Hardware Implementation*]- 2015 - DIIDW: 2015364145 [12 citări]
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11. Stec, P., Pososin, A., Munteanu, M. C., Zaharia, C., & Georgescu, V. - "*Method And System For Correcting A Distorted Input Image*" [*Perspective Correction*]- 2016 - DIIDW:2015551294 [25 citări]
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12. Georgescu, V., Munteanu, M. C., Bigioi, P., Zaharia, C., Fulop, S., & Simon, G. - "*Image processing apparatus*" [*Normalization*] - 2018 - DIIDW:201714663M [5 citări]
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13. Georgescu, V., Munteanu, M. C., Bigioi, P., Zaharia, C., Fulop, S., & Simon, G. - "*Image processing apparatus*" [*One step rotation and scaling*] - 2019 - DIIDW: 201937402C
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14. Munteanu, M. C., Caliman, A., & Zaharia, C. - "*Convolutional neural network (CNN)*" [*HW Acceleration - PCNN*] - U.S. Patent No. 9,665,799. Washington, DC: U.S. Patent and Trademark Office - 30 May 2017 - DIIDW:2017344715 [31 de citări]
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15. Munteanu, M. C., Caliman, A., Zaharia, C., & Dinu, D. - "*Convolutional neural network (CNN)*" [*Floating point & optimizations*]- 2017 - DIIDW: 201752317] [37 de citări]
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16. Bigioi, P., Munteanu, M. C., Caliman, A., Zaharia, C., & Dinu, D., & Kahrman, A. - "*Convolutional neural network (CNN)*" [*Advanced Memory Management*] - 2019 - DIIDW: 201752615T Brevete: WO2017129325-A1; CN108701236-A; EP3408798-A1; US2020126178-A1; EP3408798-B1; US11087433-B2
17. Zaharia, C., Bigioi, P., (WO, EP, CN) / Bigioi, P., & Zaharia, C. (US) - "*Peripheral processing device*" - 2019 - DIIDW:201919589P [4 citări]
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18. Zaharia, C. - "*Vehicle side view camera system with adjustable field of view*" - 2020 - DIIDW: 2020439412 [2 citări]
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19. Zaharia, C. - "*Vehicle side view camera system with adjustable field of view*" [*un-authorized access*] - U.S. Patent No. 10,836,353. Washington, DC: U.S. Patent and Trademark Office - 17 Nov. 2020 - DIIDW:2021451205

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Brevete: US8340462-B1

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