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**Ing. Cristina Laura Sîrbu**

**1. Lucrări științifice publicate în reviste indexate ISI**

1. Căleanu, C.D.; **Sîrbu, C.L.**; Simion, G. "Deep Neural Architectures for Contrast Enhanced Ultrasound (CEUS) Focal Liver Lesions Automated Diagnosis." *Sensors* 2021, No. 21, 4126, WOS:000666412700001 (Q1 journal).

**2. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate ISI Proceedings**

1. **C. L. Sîrbu**, G. Simion, C. D. Căleanu. "Deep CNN for Contrast-Enhanced Ultrasound Focal Liver Lesions Diagnosis." 14TH International Symposium on Electronics and Telecommunications (ISETC), 2020, pp. 1-4, WOS:000612681000002.

2. **C. L. Sîrbu**, C. Tomoiu, S. Fancsali-Boldizsar and C. Orhei, "Real-time line matching based speed bump detection algorithm." IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2021, pp. 246-249, WOS:000786441900059.

3. M. Stanescu, **C. L. Sîrbu**, C. Orhei, " Mapping the environment at range: implications for camera calibration." IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2022, WOS:000947243400010.

4. **Sîrbu, C.L.**, Seiculescu, C., Adrian Burdan, G., Moga, T. and Daniel Căleanu, C., 2022. Evaluation of Tracking Algorithms for Contrast Enhanced Ultrasound Imaging Exploration. In *Australasian Computer Science Week 2022* (pp. 161-167), WOS:000927846800019.

5. **Sîrbu, C.L.**, Papazian, P. and Băbăița, M., 2023, April. FPGA Implementation of a IEEE 1451 Compliant Transducer Interface Module. In *2023 33rd International Conference Radioelektronika (RADIOELEKTRONIKA)* (pp. 1-4). IEEE, WOS:000990505700053.

**3. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate BDI**

1. A. G. Bălănescu, **C. L. Sîrbu**, C. Orhei, "Intersection detection based on mono-camera sensor," 2022 45th International Conference on Telecommunications and Signal Processing (TSP), 2022, pp. 216-220, (în curs de indexare WoS; conferința anterioară 2021 indexată WoS), indexat IEEE Explore.

2. **C. L. Sîrbu**, G. Simion, C. D. Căleanu. "Improving the Diagnostic of Contrast Enhanced Ultrasound Imaging using Optical Flow for Lesion." 24rd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2022. (în curs de indexare WoS; conferința anterioară 2021 indexată WoS), indexat IEEE Explore.

3. Mercioni M., C. D. Căleanu, **Sîrbu, C.L.** „Computer Aided Diagnosis for Contrast-Enhanced Ultrasound Using Transformer Neural Network”, 25th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2023 (*accepted for publication*).

Data: \_\_\_\_\_

AVIZAT, Conducător științific	ÎNTOCMIT, Student doctorand
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**Deep CNN for Contrast-Enhanced Ultrasound Focal Liver Lesions Diagnosis**

By: Sirbu, CL (Sirbu, Cristina Laura); Simion, G (Simion, Georgiana); Caleanu, CD (Caleanu, Catalin Daniel)  
 Book Group Author: IEEE

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2020 14TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC)  
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 Page: 3-6  
 Published: 2020  
 Indexed: 2021-02-22  
 Document Type: Proceedings Paper

**Conference**

Meeting: 14th International Symposium on Electronics and Telecommunications (ISETC)  
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**Deep Neural Architectures for Contrast Enhanced Ultrasound (CEUS) Focal Liver Lesions Automated Diagnosis**

By: Caleanu, CD (Caleanu, Catalin Daniel); Sirbu, CL (Sirbu, Cristina Laura); Simion, G (Simion, Georgiana)

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**SENSORS**

Volume: 21 Issue: 12  
 Article Number: 4126  
 DOI: 10.3390/s21124126  
 Published: JUN 2021  
 Indexed: 2021-07-03  
 Document Type: Article

**Abstract:**

Computer vision, biomedical image processing and deep learning are related fields with a tremendous impact on the interpretation of medical images today. Among biomedical image sensing modalities, ultrasound (US) is one of the most widely used in practice, since it is noninvasive, accessible, and cheap. Its main drawback, compared to other imaging modalities, like computed tomography (CT) or magnetic resonance imaging (MRI), consists of the increased dependence on the human operator. One important step toward reducing this dependence is the implementation of a computer-aided diagnosis (CAD) system for US imaging. The aim of the paper is to examine the application of contrast enhanced ultrasound imaging (CEUS) to the problem of automated focal liver lesion (FLL) diagnosis using deep neural networks (DNN). Custom DNN designs are compared with state-of-the-art architectures, either pre-trained or trained from scratch. Our work improves on and broadens previous work in the field in several aspects, e.g., a novel leave-one-patient-out evaluation procedure, which further enabled us to formulate a hard-voting classification scheme. We show the effectiveness of our models, i.e., 88% accuracy reported against a higher number of liver lesion types: hepatocellular carcinomas (HCC), hypervascular metastases (HYPERM), hypovascular metastases (HYPOM), hemangiomas (HEM), and focal nodular hyperplasia (FNH).

**Keywords**

Author Keywords: contrast enhanced ultrasound imaging; CEUS; focal liver lesions; FLL; deep learning; deep neural networks  
 Keywords Plus: ULTRASONOGRAPHY; NETWORK

Addresses:  
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By: Tomoiaga, I (Tomoiaga, Ileana) [1]; Suta, A (Suta, Alexandra) [1]; Dimcea, I (Dimcea, Iasmina) [1]; Slavici, T (Slavici, Titus) [1], [2]; Balint, R (Balint, Roxana) [1]; Nedelcu, F (Nedelcu, Florin) [1]; Mihali, LC (Mihali, Lavinia Cernescu) [2]; Sirbu, C (Sirbu, Cristina) [1]

Edited by: Kovacev I (Kovacev, I); Bilandzija, N (Bilandzija, N)  
 ACTUAL TASKS ON AGRICULTURAL ENGINEERING (ATAE 2021)  
 Book Series: Actual Tasks on Agricultural Engineering-Zagreb  
 Volume: 48 Page: 501-511  
 Published: 2021  
 Indexed: 2021-07-16  
 Document Type: Proceedings Paper

**Conference**

Meeting: 48th International Symposium on Actual Tasks on Agricultural Engineering (ATAE)  
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### Real-time line matching based speed bump detection algorithm

By: Sirbu, CL (Sirbu, Cristina Laura) ; Tomoiu, C (Tomoiu, Cristian) ; Fancsali-Boldizsar, S (Fancsali-Boldizsar, Szilvia) ; Orhei, C (Orhei, Ciprian)  
Book Group Author: IEEE

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Published: 2021  
Indexed: 2022-05-04  
Document Type: Proceedings Paper

**Conference**  
Meeting: IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME)  
Location: Timisoara, ROMANIA  
Date: OCT 25-30, 2021  
Sponsors: IEEE; APTe; Uni Politehnica Timisoara; IEEE Elect Packaging Soc; Univ Politehnica Bucuresti

**Abstract:**  
Active safety is one of the main technologies in the modern automotive industry. Active safety is achieved with advanced sensors that employ Computer Vision algorithms. To assist the driver and eventually to achieve fully autonomous driving, these sensors must be able to perform functions like lane detection, traffic signs recognition, detection of dynamic obstacles and irregularities of the road such as speed bumps. Speed bump detection is an important function for an advanced driver assistance system. In this paper, we present a speed bump detection algorithm that uses a mono-camera sensor as an input. We propose a real-time robust speed bump detection algorithm that first identifies a region of interest, based on semantic segmentation, and later on applies a novel variant of ED Line algorithm.

**Keywords**  
Author Keywords: Speed bump detection; ED Lines; dilated filters  
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Document Type: Proceedings Paper

**Conference**  
Meeting: Australian Computer Science Week (ACSW)  
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Sponsors: Comp Res & Educ Assoc Australasia; Univ Queensland

**Abstract:**  
Deep Neural Networks (DNN) and Deep Learning (DL) are providing efficient solutions to many Computer Vision (CV) problems. As state-of-the-art solutions, DNNs have been successfully applied to automate the detection and classification of lesions in medical ultrasound images for various diseases. Classification of focal liver lesions (FLLs) in Contrast Enhanced Ultrasound Imaging (CEUS) recording is becoming a topic of interest as it could efficiently assist healthcare practitioners in the diagnosis process. Like all DNN-based solutions, model performance is highly dependent on the quality of the training set. To produce quality training datasets, specialists have to manually label thousands of frames, which is very labor intensive and prone to errors. In this paper, we investigate various tracking algorithms that can be utilized to efficiently generate training images using just a few annotated frames. Unlike the vast majority of use cases for which most of the tracking algorithms have been proposed and tested against, CEUS recordings are characterized as being very noisy and having low contrast, thus previous established rankings should be re-evaluated: based on experimental results, we conclude that the Kernelized Correlation Filter tracking algorithm emerged as one of the best candidates for tracking in CEUS imagery.

**Keywords**  
Author Keywords: Tracking; KCF; medical dataset; CEUS  
Keywords Plus: COMPUTER-AIDED DIAGNOSIS; FOCAL LIVER-LESIONS; CLASSIFICATION  
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## Mapping the environment at range: implications for camera calibration

By: Stanescu, M (Stanescu, Malin) ; Sirbu, CL (Sirbu, Cristina Laura) ; Orhei, C (Orhei, Ciprian)  
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Page: 40-43

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Published: 2022

Indexed: 2023-03-30

Document Type: Proceedings Paper

## Conference

Meeting: [28th International Symposium for Design and Technology in Electronic Packaging \(SIITME\)](#)

Location: Bucharest, ROMANIA

Date: OCT 26-29, 2022

## Abstract:

In the last period Advanced Driving Assistance System are growing exponential and offering new features to drivers in the direction of achieving Autonomous Driving. Active safety is achieved with multiple sensors but still one of the most important ones is the camera sensors within the architecture. Creation of depth maps which describes the surrounding environment is a common practice in the field. In order to create an accurate map the correctness of the camera calibration is an important factor. In this paper we analyze the impact of camera calibration on the environment mapping reconstruction, by exploring the effect on the reconstruction error from short range to long range. Focusing on the latter, we show that the mean reprojection error may not be a sufficient indicator of the calibration accuracy and we propose better measurements and the associated calibration methods.

## Keywords

Author Keywords: 3D Reconstruction; Autonomous Driving; Computer Vision; Calibration

## Addresses:

<sup>1</sup> Continental Automot, Dept Adv Driver Assistance Syst, Timisoara, Romania

<sup>2</sup> Politehn Univ Timisoara, Dept Appl Elect, Timisoara, Romania

<sup>3</sup> Politehn Univ Timisoara, Dept Commun, Timisoara, Romania

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## FPGA Implementation of a IEEE 1451 Compliant Transducer Interface Module

By: Sirbu, CL (Sirbu, Cristina Laura) ; Papazian, P (Papazian, Petru) ; Babalta, M (Babalta, Mircea)

Edited by: Pidanic, J (Pidanic, J)

2023 33RD INTERNATIONAL CONFERENCE RADIOELEKTRONIKA, RADIOELEKTRONIKA

DOI: 10.1109/RADIOELEKTRONIKA57919.2023.10109080

Published: 2023

Indexed: 2023-06-11

Document Type: Proceedings Paper

## Conference

Meeting: [33rd International Conference on Radioelektronika \(RADIOELEKTRONIKA\)](#)

Location: Pardubice, CZECH REPUBLIC

Date: APR 19-20, 2023

Sponsors: IEEE; Ceska Elektrotechnicka Spolecnost

## Abstract:

In order to monitor the technological processes related to modern industrial systems, it is necessary to have a large number of sensors through which the information from the environment is collected. The devices used in the control of industrial technological processes aim to achieve compatibility with the IEEE 1451 standard, but there are still many situations in which the adaptation to the new standard of the old "legacy" structures must be ensured. Thus, a compliant interface is needed to connect transducers according to IEEE 1451 standard.

## Keywords

Author Keywords: FPGA; interface; NCAP; network; TEDS; TIM; transducer; smart

## Addresses:

<sup>1</sup> Politehn Univ Timisoara, Fac Elect Telecommun & Informat Technol, Dept Appl Elect, Timisoara, Romania

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Basevanaki, K; Kapouleas, S; Elwakil, AS

44th International Conference on Telecommunications and Signal Processing (TSP) 2021 | 2021 44TH INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING (TSP), pp.1-4

8 References

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Al-Sayoudi, A and Lencse, G

44th International Conference on Telecommunications and Signal Processing (TSP) 2021 | 2021 44TH INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING (TSP), pp.5-9

1 Citation

13 References

This paper focuses on one of the most prominent IPv6 transition technologies named 464XLAT. The paper aims at building a testbed of this technology and reviews its security analysis. Several virtual machines were used to implement the testbed. The design of the testbed is fully disclosed and its



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12 References

We analyse the tension between incompleteness and undecidability, on one hand, and the process of automatizing mathematics, on the other hand.

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Kremer, G and Brandt, J

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Year: 2021 | Conference Paper | Publisher: IEEE  
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 Deep CNN for Contrast-Enhanced Ultrasound Focal Liver Lesions Diagnosis**Cristina Laura Sirbu**, Georgiana Simion, Cătălin Daniel Căleanu  
2020 International Symposium on Electronics and Telecommunications (ISETC)  
Year: 2020 | Conference Paper | Publisher: IEEE  
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 Intersection detection based on mono-camera sensorAdrian Gabriel Bălănescu, **Cristina Laura Sirbu**, Ciprian Orhei  
2022 45th International Conference on Telecommunications and Signal Processing (TSP)  
Year: 2022 | Conference Paper | Publisher: IEEE  
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 Mapping the environment at range: implications for camera calibrationMălin Stănescu, **Cristina Laura Sirbu**, Ciprian Orhei  
2022 IEEE 28th International Symposium for Design and Technology in Electronic Packaging (SIITME)  
Year: 2022 | Conference Paper | Publisher: IEEE

Abstract HTML PDF CC

 Improving the Diagnostic of Contrast Enhanced Ultrasound Imaging using Optical Flow for Focal Liver Lesion Detection**Cristina Laura Sirbu**, Georgiana Simion, Cătălin Daniel Căleanu  
2022 24th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)  
Year: 2022 | Conference Paper | Publisher: IEEE

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 FPGA Implementation of a IEEE 1451 Compliant Transducer Interface Module**Cristina Laura Sirbu**, Petru Papazian, Mirocea Băbăița  
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Year: 2023 | Conference Paper | Publisher: IEEE

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