

**LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII DOCTORALE,
PUBLICATE SAU ACCEPTATE SPRE PUBLICARE, SUB AFILIERE UPT**

Ing. Bogdan Ilie SIGHENCEA student doctorand

1. Lucrări științifice publicate în reviste indexate Web of Science-WoS (ISI)

1. **Sighencea B.I.**; Stanciu I.R.; Căleanu C.D., "D-STGCN: Dynamic Pedestrian Trajectory Prediction Using Spatio-Temporal Graph Convolutional Networks", *Electronics* 2023, 12(3), 611, WOS:000933823000001 (**Q3**).
2. **Sighencea B.I.**, Stanciu R.I., Șorândaru C., Căleanu C.D., "The Alpha-Beta Family of Filters to Solve the Threshold Problem: A Comparison", *Mathematics* 2022; 10(6):880, WOS:000774078800001 (**Q1**).
3. **Sighencea B.I.**, Stanciu R.I., Căleanu C.D., "A Review of Deep Learning-Based Methods for Pedestrian Trajectory Prediction", *Sensors* 2021; 21(22):7543, WOS:000778251600009 (**Q1**).

2. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate Web of Science-WoS (ISI) Proceedings

1. **Sighencea B.I.**, Stanciu R.I. and Sorandaru C., "Using the α - β - γ Filter to solve the Threshold Problem, *IEEE EUROCON 2021 - 19th International Conference on Smart Technologies*, Lviv, Ukraine, 2021, pp. 45-50, WOS:000728121700008.

3. Lucrări științifice publicate în reviste de specialitate indexate BDI (cu specificarea BDI)

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4. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate BDI (cu specificarea BDI)

1. **Sighencea B.I.**, "Pedestrian Trajectory Prediction Based on Tree Method using Graph Neural Networks", *24th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)*, Hagenberg / Linz, Austria, 2022, pp. 245-249. (în curs de indexare WoS; conferința anterioară SYNASC 2021 indexată WoS), indexată IEEE Explore.
2. **Sighencea B.I.**, Stanciu R.I. and Căleanu C.D., "Pedestrian Trajectory Prediction in Graph Representation Using Convolutional Neural Networks," *IEEE 16th International Symposium on Applied Computational Intelligence and Informatics (SACI)*, Timișoara, Romania, 2022, pp. 000243-000248. (în curs de indexare WoS; conferința anterioară SACI 2021 indexată WoS), indexată IEEE Explore.

5. Lucrări științifice publicate în volumele unor manifestări științifice internaționale (Proceedings) din străinătate

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1 Using the alpha-beta-gamma Filter to solve the Threshold Problem

[Sighencea, B; Stanciu, IR and Sorandaru, C](#)

2021 | IEEE EUROCON 2021 - 19TH INTERNATIONAL CONFERENCE ON SMART TECHNOLOGIES, pp.45-50

The human life has changed considerably in the past decades. A significant number of systems work around the clock to provide a higher quality of life. These machines often have to measure parameters and take decisions (signalize statuses, take actions, etc.). In order to be able to take a decision, they measure different sensor values and compare them against already established thresholds. VI

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2 A Review of Deep Learning-Based Methods for Pedestrian Trajectory Prediction

[Sighencea, B; Stanciu, IR and Căleanu, CD](#)

Nov 2021 | SENSORS 21 (22)

Pedestrian trajectory prediction is one of the main concerns of computer vision problems in the automotive industry, especially in the field of advanced driver assistance systems. The ability to anticipate the next movements of pedestrians on the street is a key task in many areas, e.g., self-driving auto vehicles, mobile robots or advanced surveillance systems, and they still represent a techn

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3 D-STGCN: Dynamic Pedestrian Trajectory Prediction Using Spatio-Temporal Graph Convolutional Networks

[Sighencea, B; Stanciu, IR and Căleanu, CD](#)

Feb 2023 | ELECTRONICS 12 (3)

[Enriched Cited References](#)

Predicting pedestrian trajectories in urban scenarios is a challenging task that has a wide range of applications, from video surveillance to autonomous driving. The task is difficult since pedestrian behavior is affected by both their individual path's history, their interactions with others, and with the environment. For predicting pedestrian trajectories, an attention-based interaction-aware

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4 The Alpha-Beta Family of Filters to Solve the Threshold Problem: A Comparison

[Sighencea, B; Stanciu, IR and Căleanu, CD](#)

Mar 2022 | MATHEMATICS 10 (6)

[Enriched Cited References](#)

Typically, devices work to improve life quality, measure parameters, and make decisions. They also signalize statuses, and take actions accordingly. When working, they measure different values. These are to be compared against thresholds. Some time ago, vision systems came into play. They use camera(s) to deliver(s) images to a processor module. The received images are processed to perform dete

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Pedestrian Trajectory Prediction in Graph Representation Using Convolutional Neural Networks 🔒

Bogdan Ilie [Sighencea](#); Rareș Ion Stanciu; Cătălin Daniel Căleanu

2022 IEEE 16th International Symposium on Applied Computational Intelligence and Informatics (SACI)

Year: 2022 | Conference Paper | Publisher: IEEE

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Using the α - β - γ Filter to solve the Threshold Problem 🔒

Bogdan Ilie [Sighencea](#); Ion Rares Stanciu; Ciprian Sorandaru

IEEE EUROCON 2021 - 19th International Conference on Smart Technologies

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Pedestrian Trajectory Prediction Based on Tree Method using Graph Neural Networks 🔒

Bogdan Ilie [Sighencea](#)

2022 24th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)

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- Result 1:** "AI vs AI (Augmenting [Human] Intellect vs Artificial Intelligence)" by Filio, FG. Published in the IEEE 15th International Symposium on Applied Computational Intelligence and Informatics (SACI) 2021, pp.11-12. It has 8 references. The abstract discusses the scientific programme of Stanford Research Institute (SRI) and the concept of augmenting human intellect.
- Result 2:** "Automating Glucose Control in Type 1 Diabetes" by Bondia, J. Published in the IEEE 15th International Symposium on Applied Computational Intelligence and Informatics (SACI) 2021, pp.13-13. It has 0 references. The abstract describes Type 1 diabetes (T1D) as a chronic metabolic disease and discusses insulin deficiency.

SYNASC, Conferința anterioară 2021 indexată WoS:

The screenshot shows the Web of Science interface for a search of "23rd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC) (Conference)". The search results page displays 44 results. The left sidebar includes a navigation menu, a search box, and filter options such as "Open Access" (10) and "Enriched Cited References" (26). The main content area shows two results:

- Result 1:** "Godel Incompleteness and Proof-Assistants Extended Abstract" by Calude, CS. Published in the 23rd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC) 2021, pp.1-3. It has 12 references. The abstract discusses the tension between incompleteness and undecidability.
- Result 2:** "Implementing arithmetic over algebraic numbers A tutorial for Lazard's lifting scheme in CAD" by Kremer, G and Brandt, J. Published in the 23rd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC) 2021, pp.1-10. It has 29 references. The abstract discusses implementing techniques from computer algebra.