

Lista lucrărilor publicate și a contribuțiilor personale

Articole în reviste

- Dragne, L.-S., Mincu-Iorga, M., Gavojdian, D., Dascalu, S.-T., **Tudose, D.-S.**, Posea, V.-V., & Olteanu, A.-C. (2026). Assessment of spectrogram correlation, eigensounds, and YAMNet embeddings in detecting cattle vocalizations. *Computers and Electronics in Agriculture*, 248, articolul 111823. Factor de impact: 8.9; cuartilă: Q1.
- Dinica, M.-G., Popescu, I.-D., **Tudose, D.-S.**, Dumitru, B.-A., Dragomir, L. C., Pitale, A., & Preda, M.-A. (2025). CityAirQ-pollution tracking system. *Sustainability*. Factor de impact: 3.3; cuartilă: Q2.
- Funieru, C., **Tudose, D.-S.**, Dobrica, B., Sandulescu, M., Popovici, I. A., Slusanschi, E. I., Croitoru, S. M., Vranceanu, D.-E., Banica, B., & Nicolescu, M. I. (2023). A new model of salivary pacemaker—a proof of concept and first clinical use. *Medicina*, 59, articolul 1647. Factor de impact: 2.4; cuartilă: Q1.
- Cozma, A.-A., Firculescu, A.-C., **Tudose, D.-S.**, & Dragomir, L. C. (2022). Autonomous multi-rotor aerial platform for air pollution monitoring. *Sensors*, 22, articolul 860. Factor de impact: 3.9; cuartilă: Q2.
- **Tudose, D.-S.**, Dragomir, L. C., & Tapus, N. (2013). Radio transceiver consumption modeling for multi-hop wireless sensor networks. *University Politehnica of Bucharest Scientific Bulletin, Series C: Electrical Engineering and Computer Science*, 17–26. Factor de impact: 0.45.

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- **Tudose, D.-S.** (2016). *Rețele de senzori wireless. Indrumar de laborator*. Printech. ISBN 978-606-23-0682-3.

- **Tudose, D.-S.** (2016). *Calculatoare numerice. Indrumar de laborator*. Printech. ISBN 978-606-23-0694-6.

Capitole de carte

- Iancu, V., & **Tudose, D.-S.** (2016). A smart city fighting pollution, by efficiently managing and processing big data from sensor networks. In *Resource Management for Big Data Platforms: Algorithms, Modelling, and High-Performance Computing Techniques* (pp. 489–513). Springer International Publishing.
- **Tudose, D.-S.**, Funieru, C., & Dobrica, B. (2016). Abordarea interdisciplinara a pacientului cu xerostomie: perspective actuale de diagnostic si tratament. In C. Funieru (Ed.), *Abordarea interdisciplinara a pacientului cu xerostomie: perspective actuale de diagnostic si tratament* (pp. 48–55). PIM.
- Wehner, M., Zeisberg, S., Oualha, N., Olivereau, A., Ludwig, M., **Tudose, D.-S.**, Dragomir, L. C., Slusanschi, E. I., Hess, B., von Reischach, F., & Bateman, D. (2012). Challenges and current results of the TWISNet FP7 project. In *Lecture Notes in Computer Science* (pp. 232–233). Springer Berlin Heidelberg.

Lucrări publicate în volumele conferințelor

- Ceausu, M.-C., **Tudose, D.-S.**, & Dunai, L. (2025). Energy-efficient environmental monitoring system. In *Proceedings of the RoEduNet IEEE International Conference*.
- **Tudose, D.-S.**, Toaca, A.-S., & Antonino-Daviu, J. A. (2025). Porting NuttX RTOS on a smartwatch, with a focus on low power. In *Proceedings of the 24th RoEduNet Conference: Networking in Education and Research*.
- Mirza, A.-M., **Tudose, D.-S.**, & Dunai, L. (2025). Enabling smartwatch biometrics in constrained environments. In *Proceedings of the RoEduNet IEEE International Conference*.
- Pascale, R.-I., **Tudose, D.-S.**, & Alexandru, N. (2025). Human activity recognition on embedded devices: CNN-based walking detection and step counting. In *Proceedings of the 25th International Conference on Control Systems and Computer Science* (pp. 349–353).
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- Gul, F.-A.-I., **Tudose, D.-S.**, & Turcanu, T. (2024). A versatile IoT development board for environmental sensing and biometric applications. In *Proceedings of the RoEduNet IEEE International Conference* (pp. 1–6).
- Pascale, R.-I., **Tudose, D.-S.**, & Turcanu, T. (2024). Open hardware and software smartwatch. In *Proceedings of the RoEduNet IEEE International Conference* (pp. 1–5).
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- Serban, M.-L., & **Tudose, D.-S.** (2018). BaseHub platform for monitoring IoT devices. In *Proceedings of the 21st IEEE International Conference on Computational Science and Engineering* (pp. 62–69). IEEE.
- **Tudose, D.-S.** (2017). Measurement of node mobility for the LoRa protocol. In *Proceedings of the 16th Networking in Education and Research RoEduNet International Conference* (pp. 1–6). IEEE.
- **Tudose, D.-S.** (2017). Sparrow: An energy harvesting wireless sensor node. In *Proceedings of the 4th International Conference on Control, Decision and Information Technologies* (pp. 410–415). IEEE.
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- Conference on Control Systems and Computer Science* (pp. 625–629). IEEE.
- **Tudose, D.-S.** (2017). Environmental monitoring using heterogeneous Wi-Fi and IEEE 802.15.4 networks. In *Proceedings of the 21st International Conference on Control Systems and Computer Science* (pp. 149–155). IEEE.
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 - Olteanu, A.-C., **Tudose, D.-S.**, & Tapus, N. (2013). Energy-efficient user interaction with an off-grid building. In *Proceedings of the 2nd International Conference on Systems and Computer Science* (pp. 86–91). IEEE.

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