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

Ing. *Cristina- Maria Andraș* student doctorand

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

1. **Andras, C.M.**; Barb, G.; Alexa, F.; Balint, C. Congestion Analysis of Transport Layer in a Multicell 5G DL Communication System. Sensors 2023, 23, 6111. https://doi.org/10.3390/s23136111, WOS:001031145300001

2. **Andras, C.M.**; Barb, G.; Otesteanu, M. Comparative Analysis of Beamforming Techniques and Beam Management in 5G Communication Systems. Sensors 2025, 25, 4619. https://doi.org/10.3390/s25154619.

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

1.**C. M. Andras**, G. Barb, M. Otesteanu, "Interference Margin Estimation in DL Link Budget Calculations for 5G Communication Systems", 2 pagini, IEEE AP-S/URSI 2024, 14-19 July, Florence, Italy 2024.

2. **C.M. Andras**, T.O. Pacurar, A.M. Silaghi, "Spectral Efficiency Evaluation of Resource Allocation Types in 5G NR Downlink Scheduling", IEEE International Conference on Automation, Quality and Testing Robotics (AQTR), Baile Felix, Romania, May 21-23, 2026.

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

1.**C. M. Andras**, G. Barb, C. Balint and F. Alexa, "Congestion Study of Transport Layer in DL 5G Communication Systems," 2022 International Symposium on Electronics and Telecommunications (ISETC), Timisoara, Romania, 2022, pp. 1-4, doi: 10.1109/ISETC56213.2022.10010331.

2. **C. M. Andras**, D. Musteata, R. Neag and G. Barb, "Comparative Analysis of Battery Consumption in 5G and 4G Networks for Video Streaming," 2025 IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (APWC), Palermo, Italy, 2025, pp. 089-091, doi: 10.1109/APWC65665.2025.11190402.

3. **C. M. Andras**, G. Barb and M. Otesteanu, "Massive MIMO in 5G: Capacity Trade-Offs between Open Loop and Closed Loop MIMO," 2025 IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (APWC), Palermo, Italy, 2025, pp. 62-65, doi: 10.1109/APWC65665.2025.11190453.

4. G. Barb, **C. Andras** and C. Balint, "Performance Analysis of Transport Layer Congestion on 5G Systems," 2022 14th International Conference on Communications (COMM), Bucharest, Romania, 2022, pp. 1-4, doi: 10.1109/COMM54429.2022.9817358

5. **C. M. Andras**, C. -E. Gruin, G. Barb, C. Balint and F. Alexa, "5G DL Throughput Measurement using Massive MIMO Channel System Tool with Beamforming," 2023 International Symposium on Signals, Circuits and Systems (ISSCS), Iasi, Romania, 2023, pp. 1-4, doi: 10.1109/ISSCS58449.2023.10190947.

6. M. -I. Cosnita, **C. M. Andras**, F. Alexa and T. Petrita, "Throughput Performances in 5G MIMO System," 2024 Advanced Topics on Measurement and Simulation (ATOMS), Constanta, Romania, 2024, pp. 136-139, doi: 10.1109/ATOMS60779.2024.10921498

7. **C. -M. Andras**, T. -F. Rîcoiu, D. -A. Drugea, G. Barb and M. Oteşteanu, "An Overview and Classification on Beamforming Techniques for 5G Systems," 2024 International Symposium on Electronics and Telecommunications (ISETC), Timisoara, Romania, 2024, pp. 1-4, doi: 10.1109/ISETC63109.2024.10797375.

8. I. -A. Manea, M. -I. Coşniţa, **C. -M. Andras** and F. Alexa, "MIMO Systems in 5G: A Review," 2025 18th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, Romania, 2025, pp. 1-6, doi: 10.1109/EMES65692.2025.11045633.

9. **C. -M. Andras**, I. -A. Manea, G. Barb and F. Alexa, "Massive MIMO in 5G Networks: Trade-offs in Capacity and Complexity," 2025 IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom), Chisinau, Moldova, Republic of, 2025, pp. 1-6, doi: 10.1109/BlackSeaCom65655.2025.11193957.

10. I. -A. Manea, **C. -M. Andras** and F. Alexa, "Half-Power Beamwidth Evaluation of Uniform Linear Arrays in Multi-User MIMO Systems," 2025 33rd Telecommunications Forum (TELFOR), Belgrade, Serbia, 2025, pp. 1-4, doi: 10.1109/TELFOR67910.2025.11314299.

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