

Model F17 - Memoriul științific al studentului doctorand

MEMORIU ȘTIINȚIFIC Drd. Marilena CHIRCAN (CIONTESCU)

Studii de doctorat

Perioada: 2022-2026

Conducător științific: Prof. univ. dr. Savin TREANȚĂ

Domeniu: Matematica, în cadrul Școlii Doctorale de Științe Aplicate

Titlul tezei de doctorat: *Contributions to Multiobjective and Interval-Valued Optimization Models*

Lista de lucrări științifice

1. **Ciontescu, M.**, Treanță, S. (2023). On some connections between interval-valued variational control problems and the associated inequalities, *Results in Control and Optimization*, Vol. 12, 100300, 2023; DOI: 10.1016/j.rico.2023.100300; WOS: 001209054000005; eISSN: 2666-7207.
2. Treanță, S., **Ciontescu, M.** (2024). On optimal control problems with generalized invariant convex interval-valued functionals, *Journal of Industrial and Management Optimization*, Vol. 20, No. 11, 3317-3336, 2024; DOI: 10.3934/jimo.2024055; WOS: 001214796900001; ISSN: 1547-5816.
3. Preeti, Treanță, S., **Ciontescu, M.** (2025). On multiple objective interval-valued optimization models with controlled dynamical system constraints, *International Journal of Control*, Vol. 98, No. 7, pp. 1713-1721, 2025; DOI:10.1080/00207179.2024.2423212; eISSN: 1366-5820; WOS: 001348217100001; ISSN: 0020-7179.
4. Treanță, S., **Ciontescu, M.**, Laha, V., Shi, F. (2025). Characterization and existence results of solutions in non-convex controlled minimization models, *Ann. Acad. Rom. Sci. Ser. Math. Appl.*, Vol. 17, No. 1, 67-94, 2025; DOI: 10.56082/annalsarscimag.2025.1.67; ISSN: 2066-6594.
5. Treanță, S., **Ciontescu, M.** (2025). On multiple-cost optimization and extended controlled vector inequalities, *Electronic Research Archive*, Vol. 33, No. 11, pp. 7085-7102, 2025; DOI: 10.3934/era.2025313; WOS: 001626711100010; eISSN: 2688-1594.
6. Treanță, S., **Ciontescu, M.**, Preeti (2026). On a class of multiple objective variational

control models determined by univex functionals, Mathematical Control and Related Fields, Vol. 18, 385-396, 2026; DOI: 10.3934/mcrf.2026001; WOS: 001627647600001; ISSN: 2156-8472.

Participări la conferințe

1. Ciontescu, M. (2023). Interval-valued optimal control problems and associated variational control inequalities. The Fifth Romanian Itinerant Seminar on Mathematical Analysis and its Applications (RISMAA), May 26-28, Craiova, Romania.

2.Ciontescu, M. (2025). On Some Optimal Control Problems. The International Conference on Advances in Pure and Applied Mathematics (ICAPAM-25), Nov. 5-6, Budapest, Hungary.

3.Ciontescu, M. (2025). A Variational Approach To Optimal Control With Generalized Invariant Convex Interval-Valued Functionals. The International Conference ISIM/ISWIM 2025, Nov. 22-25, Bucharest, Romania.

Student-doctorand
Marilena CHIRCAN (CIONTESCU)