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Research interest: Combinatorial designs, Codes.

Recent publications:

- [1] D. Crnković, S. Rukavina: „Self-dual codes from extended orbit matrices of symmetric designs“, **Des. Codes Cryptogr.** (2015), DOI 10.1007/s10623-015-0038-x.
- [2] D. Crnković, H. Kharaghani: „Divisible design digraphs“, in: **Algebraic Design Theory and Hadamard Matrices**, (C. J. Colbourn, Ed.), SpringerProc. Math. Stat., Springer, New York, 2015.
- [3] D. Crnković, S. Rukavina, V. D. Tonchev: „New symmetric $(61, 16, 4)$ designs obtained from codes“, in: **Algebraic Design Theory and Hadamard Matrices**, (C. J. Colbourn, Ed.), SpringerProc. Math. Stat., Springer, New York, 2015.
- [4] D. Crnković: „Classes of self-orthogonal or self-dual codes from orbit matrices of Menon designs“, **DiscreteMath.** **327** (2014), 91-95.
- [5] D. Crnković, V. Mikulić Crnković, A. Švob: „On some transitive combinatorial structures constructed from the unitary group $U(3, 3)$ “, **J. Statist. Plann. Inference** **144** (2014), 19-40.

Selected publications:

- [1] D. Crnković, W. H. Haemers: „Walk-regular divisible design graphs“, **Des. CodesCryptogr.** **72** (2014), 165-175.
- [2] D. Crnković, B. G. Rodrigues, S. Rukavina, L. Simčić: „Self-orthogonal codes from orbit matrices of 2-designs“, **Adv. Math. Commun.** **7** (2013), 161-174.
- [3] D. Crnković, V. Mikulić: „Unitals, projective planes and other combinatorial structures constructed from the unitary groups $U(3, q)$, $q=3, 4, 5, 7$ “, **ArsCombin.** **110** (2013), 3-13.
- [4] D. Crnković: „A series of Menon designs and 1-rotational designs“, **FiniteFields Appl.** **13** (2007), 1001 – 1005.
- [5] D. Crnković: „A Series of Regular Hadamard Matrices“, **Des. CodesCryptogr.** **39** (2006), 247 – 251.