

# CURRICULUM VITAE



## Professor Mircea CIMPOEAȘ

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### 1. STUDIES

#### **Habilitation:**

Romanian Academy (SCOOSAR), 2020

*Combinatorial aspects in algebra and number theory*

#### **Ph-D studies:**

University of Bucharest, 2007

*Contributions in combinatorics in commutative algebra*

Adviser: Professor Dorin Popescu

#### **Master degree:**

University of Bucharest, Faculty of Mathematics and Informatics, 2005

#### **License:**

University of Bucharest, Faculty of Mathematics and Informatics, 2003

### 2. POSITIONS :

**2008** - Senior Researcher, Institute of Mathematics of the Romanian Academy

**2020 - 2024** - Associate Professor, National University of Science and Technology Politehnica Bucharest (NUSTPB)

**2024** - Professor, National University of Science and Technology Politehnica Bucharest

### **3. SCIENTIFIC DOMAINS**

- Combinatorial commutative algebra (Invariants of monomial ideals);
- Elementary theory of partitions,
- Analytic number theory (Artin L-functions)

### **4. TEACHING COURSES**

- Linear algebra, analytic and differential geometry
- Probability theory and mathematical statistics
- Calculus

### **5. MEMBER IN GRANTS**

- (P1)** 2007-2011 Grant ID-PCE 2007-51, Metode combinatorice, omologice si aritmetice in studiul idealelor polinomiale. (director Iustin Coanda)
- (P2)** 2012-2016 Grant ID-PCE 2011-1023, Algorithmic and theoretical methods for studying monomial and binomial ideals with applications in combinatorics, commutative algebra and graph theory. (director Dorin Popescu)
- (P3)** 2022-2024 Grant PN-III-P1-1.1-TE-2021-1633, Noi rezultate pentru algebre definite combinatorial. (director Dumitru Stamate)

### **6. PH-D STUDENTS**

- 1) Adrian Neacșu (2021-2023) - On the categories of fuzzy coverings and tolerance relations
- 2) Silviu Balanescu (2022-) – Combinatorial invariants of monomial ideals
- 3) Andreea Bordianu (2023-) – The combinatorial study of monomial ideals
- 4) Radu Mihai (2023-) – Mathematical models for the optimization of air traffic

### **7. PRIZES**

„Gheorghe Lazăr” prize of the Romanian Academy 2020, for the list of paper: Contributions to problems of diophantine equations and Artin L-functions.

## 8. LIST OF REPRESENTATIVE PAPERS

**(R1)**. Mircea Cimpoeas, „A stable property of Borel type ideals”, Communications in Algebra 36(2) (2008), pag. 674-677. DOI:10.1080/00927870701724136, WOS:000253722000028, ISSN: 0092-7872

**(R2)**. Mircea Cimpoeas, „Stanley depth of complete intersection monomial ideals”, Bull. Math. Soc. Sci. Math. Roumanie 51(99)(3) (2008), pag. 205-211. WOS:000259388700003, ISSN:1220-3874

**(R3)**. Mircea Cimpoeas, „Some remarks on Borel type ideals”, Communications in Algebra 37(2)(2009), pag. 724-727. DOI: 10.1080/00927870802186227, WOS:000263199400026, ISSN: 0092-7872

**(R4)**. Mircea Cimpoeas, „Stanley depth of monomial ideals with small number of generators”, Central European Journal of Mathematics 7(4) (2009), pag. 629-634. DOI: 10.2478/s11533-009-0037-0. WOS:000271396700005, ISSN: 1895-1074

**(R5)**. Mircea Cimpoeas, Dumitru Stamate, „On intersection of complete intersection ideals”, Journal of Pure and Applied Algebra, Volume 220, Issue 11, November (2016), pag. 3702-3712. DOI: 10.1016/j.jpaa.2016.05.008, WOS:000378964200007, ISSN: 0022-4049

**(R6)**. Mircea Cimpoeas, Florin Nicolae, „On the restricted partition function”, Ramanujan J. 47, no. 3 (2018), pag. 565-588. DOI: 10.1007/s11139-017-9985-3, WOS:000449797800006, ISSN:1382-4090

**(R7)**. Mircea Cimpoeas, Florin Nicolae, „Independence of Artin L-functions”, Forum Math. 31, no. 2 (2019), pag. 529-534. DOI: 10.1515/forum-2018-0185, WOS:000459863500016, ISSN: 0933-7741

**(R8)**. Mircea Cimpoeas, „On the Restricted Partition Function via Determinants with Bernoulli Polynomials”, Mediterr. J. Math. Volume 17, Issue 2 (2020), 19 pp, DOI: 10.1007/s00009-020-1478-8, WOS: 000517191800002, ISSN: 1660-5446

**(R9)**. Mircea Cimpoeas, Florin Nicolae, „Artin L-functions of almost monomial Galois groups”, Forum Math. 32, no. 4 (2020), pag. 937-940. DOI 10.1515/forum-2019-0288, WOS:000544194200006, ISSN: 0933-7741

**(R10)**. Mircea Cimpoeas, „On a generalization of monomial groups”, Monatshefte für Mathematik, Volume 202, Issue 1 (2023), pag. 53-64, DOI 10.1007/s00605-022-01762-6, WOS: 000849135600001, ISSN: 0026-9255

**DATE:** 27 November 2024

**SIGNATURE:**