

# Milan R. Tasković

July 15<sup>th</sup>, 1944    [milanrtaskovic1944@gmail.com](mailto:milanrtaskovic1944@gmail.com)    <https://payhip.com/milanrtaskovic>



**Dr. Milan R. Tasković** wrote over 500 papers and 19 major monographs on subjects of Mathematics, Physics and Economy in English and Serbian, over 40 years of successful career. He introduced the Axiom of Infinite Choice, Fixed Point of Distance and Spring Spaces Theory, describing 3 new principles in Mathematics. He found the answer to Schauder's 54<sup>th</sup> problem in Scottish Book and published Solution to the Expansive Cosmos Problem via Transversal Physics, adding many new equations and solutions to the problems of faster-than-light velocity, expanding the research of Nikola Tesla from 1928. He introduced Global Transversal Economy, and expanded research on Einstein's Physics with new definitions. In 2017, Tasković founded the Royal Mathematica Serbica journal. Tasković's paper, Axiom of Infinite Choice, published in 2018 by Fixed Point Theory and Applications journal, is the most accessed article out of almost 1800 papers in the last 2 decades, at 32000 views and rising. In 2018, Dr. Taskovic gave an Alternative proof and extension of Poincaré's last geometric fixed-point theorem. Milan is a respected academician and professor known for his contributions to science.

## Education

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| Doctorate (Ph.D.) at Mathematical Faculty, University in Belgrade                                      | 1978 |
| Master's Degree at Mathematical Faculty, University in Belgrade  | 1971 |
| Bachelor's Degree at Mathematical Faculty, University of Belgrade (finished in record time of 2 years) | 1968 |
| High School at Jagodina and Krusevac   | 1966 |

## Work

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| Full Professor at Mathematical Faculty, University of Belgrade                                 | 1996-     |
| Associate Professor at Bloomington Indiana University, Rutgers University NJ and Missouri S&T  | 1994-1996 |
| Associate Professor at Mathematical Faculty, University of Belgrade                            | 1988-1994 |
| Consultant and Associate Professor at Universities across Central, Southern and Eastern Europe | 1982-1992 |
| Assistant Professor at Mathematical Faculty, University of Belgrade                            | 1980-1988 |
| Teaching Assistant at Mathematical Faculty, University of Belgrade                             | 1977-1980 |

## Awards, Titles, and Achievements

|   |           |
|---|-----------|
| Royal Mathematica Serbica (founder)         | 2017      |
| Academician title awarded                   | 2010-2011 |
| Indiana University (multiple awards)        | 1994-1996 |
| IWWA Dubrovnik (founder)                    | 1979      |
| Mathematical Faculty (multiple awards)      | 1978-1988 |
| Balkan Union of Mathematics Sofia (founder) | 1978      |

## Publication Highlights

### *Journals (English)*

- Royal Mathematica Serbica (Taskovic Annalen of Mathematics, Economy and Physics), Belgrade University (Founder), Vol.1, 2017, [Link](#); Vol. 2, 2018, [Link](#); Vol. 3, 2019, [Link](#); Vol. 4, 2020, [Link](#); Vol. 5, 2021, [Link](#)
- Mathematica Moravica, Kragujevac University, Vol. 1-23, 1997-2019 (Editor, Founder) [Link](#)

### *Books & Monographs (English)*

- (1) Transversal Sets Theory, Monograph, Belgrade University, 2011, 984 pages. [Link](#)
- (2) Fixed Point Theory, Monograph, Belgrade University, 2007, 584 pages. [Link](#)
- (3) Forks Theory, Monograph, Belgrade University, 2008, 635 pages. [Link](#)
- (4) Transversal Physics, Monograph, Belgrade University, 2011, 647 pages. [Link](#)
- (5) Transversal Economy, Monograph, Belgrade University, 2012, 317 pages. [Link](#)
- (6) Transversal Functional Analysis, Monograph, Belgrade University, 2013, 381 pages. [Link](#)
- (7) General Convex Functional Analysis, Monograph, Belgrade University, 2013, 418 pages. [Link](#)
- (8) Mathematical Alternative Theory, Monograph, Belgrade University, 2012, 423 pages. [Link](#)
- (9) Diagonal Objects Theory, Monograph, Belgrade University, 2014, 476 pages. [Link](#)
- (10) Diagonal Interval Theory, Monograph, Belgrade University, 2017, 477 pages. [Link](#)

### *Papers (English)*

- Axiom of Infinite Choice (transversal ordered spring spaces and fixed points), Fixed Point Theory and Applications, Springer, 2018:10, 32 pages. [Link](#)
- Solution of the Expansive Cosmos Problem via Transversal Physics, Royal Math. Serbica 2017, 107-140. [Link](#)
- Solution, Extensions and Applications of the Schauder's 54th Problem in Scottish Book, Math. Moravica, 20-1 (2016). 145-190. [Link](#)
- The Axiom of Infinite Choice, Math. Moravica, 16-1 (2012), 77-94. [Link](#)
- Transversal Theory of fixed point, fixed apices and forked points, Math. Moravica, 14-2 (2010), 19-97. [Link](#)
- Transversal intervally spaces, Math. Moravica, 7 (2003), 91-106. [Link](#)
- On Schauder's 54<sup>th</sup> problem in Scottish Book revisited, Math. Moravica, 6 (2002), 119-126. [Link](#)
- General expansion mappings on topological spaces, Scie. Math. Japonicae, No.1, 54 (2001), 497-503. [Link](#)
- Schauder's 54<sup>th</sup> problem in Scottish Book, Math. Moravica, 2 (1998), 121-132. [Link](#)
- General Convex topological spaces and Fixed Points, Math. Moravica, 1 (1997) 127-134. [Link](#)
- The axiom of choice, fixed point theorems and inductive ordered sets, Proc. of the AMS, 116 (1992) 897-904. [Link](#)
- Antimorphisms of partially ordered sets, Archivum Mathematicum, Brno, 25-3 (1989), 127-136. [Link](#)
- Characterizations of inductive posets with applications, Proceedings of the AMS, 104 (1988), 650-659. [Link](#)
- Characterization of conditionally complete posets, Facta Universitatis, 1 (1986), 1-5. [Link](#)
- A characterization of the class of contraction type mappings, Kobe J. Math, 2 (1985), 45-55. [Link](#)
- A monotone principle of fixed points, Proc. of the AMS, 94 (1985), 427-432. [Link](#)
- Some results in the fixed point theory, Publ. Inst. Math., 20 (1976), 231-243. [Link](#)
- On a family of contractive maps, Bull. Aust. Math. Soc., 13 (1975), 301-308. [Link](#)

### *Books & Monographs (Serbian)*

- Fundamental elements of the Fixed Point Theory, ZUNS, 272 pages, Beograd, 1986, English summary from 268-271.
- Non-Linear Functional Analysis 1 (Fundamental Elements of Theory). Monographs, ZUNS, Beograd, 1993, 817 pages. English summary from 713-752.
- Non-Linear Functional Analysis 2, (Global Convex Analyses, General convexity, variational methods and optimization), Monographs, ZUNS and VIZ, Beograd, 2001, 1223 pages.
- Theory of Transversal Point, Spaces and Forks, VIZ, Beograd, 2005, 1057 pages.
- Global Theory of Mathematical Alternative, Monograph, ZUNS, Belgrade, 2016, 507 pages.