

## ***Profesor Ljubiša D. R. Kočinac***

**65 godina života i  
40 godina rada**



### **BIOGRAFIJA**

Ljubiša Kočinac rođen je trećeg januara 1947. godine u Donjem Zleginju kod Aleksandrovcu, u Srbiji. U rodnom mjestu završio je osnovnu školu. Prema vlastitim kazivanjima radoznalost za matematiku došla je do izražaja posebno u sedmom i osmom razredu osnovne škole. Okončao Učiteljsku školu u Kruševcu. Studij matematike okončao je na Prištinskom univerzitetu.

Kao srednjoškolski profesor matematike u Gimnaziji u Aleksandrovcu radio je od septembra 1970. do novembra 1973. godine kada je biran u zvanje asistenta na Filozofskom fakultetu u Nišu. Poslediplomske studije iz matematike okončao je 1977. godine na Univerzitetu u Beogradu gdje je i odbranio doktorsku disertaciju 1983. Svoju akademski karijeru izgradio je na Univerzitetu u Nišu, a radio je i na Univerzitetu u Prištini. 1993. godine biran je u zvanje redovnog profesora. Raniji izbori su bili: 1988. u zvanje vanrednog profesora, a 1984. godine u zvanje docenta.

Bio je upravnik Odsjeka za matematiku Filozoskog fakulteta u Nišu u periodu 1988-1990, a u periodu 1998-2001 bio je upravnik Instituta za matematiku tog fakulteta. Od 2001 do 2012 bio je koordinator DAAD projekta "Center of Excellence for Applications of Mathematics".

Medjunarodna konferencija 'IV Workshop on Coverings, Selections and Games in Topology' (Caserta, Italy, June 25-30, 2012) organizovana je povodom 65 godina Lj. Kočinca, a specijalan (a redovan) broj Elsevier časopisa *Topology and its Applications* biće posvećen tom jubileju. Među glavnim predavačima (Invited speakers) su bila oba glavna urednika vodećeg časopisa za topologiju u svijetu "Topology and its Applications" U Radionici su učestvovali matematičari iz 28 zemalja sa svih kontinenata (USA, Rusije, Japana, Poljske, Izraela, Austrije, Meksika, Holandije, Ukrajine, Slovačke, Italije, Grčke, Južne Afrike, Kanade, Novog Zelanda, Indije)

Bibliografija profesora Kočinca sadrži 145 jedinica, a radovi su mu objavljeni u najuglednijim matematičkim časopisima 19 zemalja. Kočinac prvi uvodi slabo savršene prostore kao prirodnu generalizaciju klasičnog pojma savršenih prostora

pokazavši da je nova klasa zaista šira od klase savršenih prostora. Uveo je i klasu prostora sa slabom  $G_\delta$ -dijagonalom. Slabo savršene prostore su zatim izučavali Robert Hit, Benet, Hosobuši, Lucer, Arhangeljskij, Ludvig i drugi topolozi. Ovaj rad Ljubiše Kočinca je uvršten u monografiju ‘*Recent Progress in General Topology II*’ (Elsevier, 2002) čiji su autori H. Benet i J. Lucer u okviru poglavlja ‘*Recent Developments in the Topology of Ordered Spaces*’. Benet i Lucer ističu da u klasi tzv. generalisano uređenih prostora slabo savršeni prostori “jesu jedina prava generalizacija savršenosti” i da “u toj klasi postojanje slabo savršenih prostora koji nisu savršeni jeste gotovo pravilo”. Uveo je klasu biradijalnih prostora i okarakterisao ih kao bikoličnik slike linearno uređenih prostora. Značajne rezultate dao je u vezi sa rascepljivošću topoloških prostora i kardinalnim invarijantama u topologiji. Verovatno najznačajniji doprinosi Kočinca su iz oblasti selekcionih principa u matematici gde je dao niz inovacija i važnih rezultata. Na primer, dao je karakterizacije osobina Hurewicz-a i Gerlits-Nagy-a, izučavao selekzione osobine u prostorima funkcija i hiperprostorima, uveo i detaljno istraživao opštu formu  $\alpha_i$ -selekcionih osobina ( $i=1,2,3,4$ ), uveo je i izučio zvezda-selekzione principe kao i selekzione osobine u uniformnim i kvazi-uniformnim prostorima, topološkim grupama itd. Sa koautorima je uspostavio veoma interesantnu vezu teorije selekcionih principa i klasične Karamatine teorije u asimptotskoj analizi.

95 radova profesora Kočinca citirano je (bez autocitata) oko 700 puta – 9 monografija i jedna enciklopedija, 18 doktorski disertacija, od toga 13 inostranih, 8 magistarskih radova (5 u inostranstvu), a ostalo u međunarodnim i domaćim časopisima. Među 165 autora koji citiraju radove Kočinca su i neki vodeći matematičari (S. Shelah, A.V. Arhangel’skii, A.W. Miller, F. Tall, G. Gruenhage itd.). Na primjer, prema ‘Google Scholar’, rad [54] citiran je 72 puta, rad [48] citiran je 38 puta, rad [71] citiran je 42 puta, rad [56] citiran je 34 puta, rad [85] citiran je 34 puta, ...

Na 126 matematičkih sastanaka izlagao je rezultate svojih istraživanja. Treba naglasiti da je na 35 konferencija bio predavač po pozivu (invited speaker, keynote speaker, plenary speaker); te konferencije su održane u raznim delovima sveta (SAD, Rusija, Kina, Japan, Indija, Iran, Pakistan, Turska, Italija, Bugarska, Grčka, Svajcarska itd).

Osim toga, bio je gost mnogih svjetski poznatih univerziteta: Moskovskog državnog univerziteta (Rusija), Latvian State University in Riga (Latvija), University of Pittsburgh (USA), University of North Carolina at Greensboro (USA), University in Messina (Italija), Università di Catania (Italia), Università di Lecce (Italia), Seconda Università di Napoli (Italia), Ehime University, (Matsuyama, Japan), Beijing Jiaotong University (China), University of Patras (Greece), University of Athens, Hacettepe University (Ankara, Turkey), University of Cape Town, i mnogi drugi, gde je održao više od 70 predavanja....

Ljubiša Kočinac bio je mentor pet doktorskih disertacija:

2012. Darko Kocev, *Neke selekzione osobine topoloških prostora i njihovih generalizacija*, PMF Niš.

2009. Aleksandra Dimitrijević-Blagojević, *Kombinatorno numeričke metode particija masa u euklidskim prostorima*, PMF, Niš.

2008. Vladimir Pavlović, *Nekoliko selekcionih osobina prostora funkcija*, PMF, Niš.

2005. Vait Ibro, *Mogućnosti za unapredjenje nastave matematike u osnovnoj školi*, Univerzitet u Istočnom Sarajevu, Pale, B&H.
2001. Liljana Babinkostova, *Selektivni principi vo topologijata*, Doktorska disertacija, PMF, Skopje, Macedonia.

i četiri magistarske radnje

2006. Darko Kocev, *Metod zvezde u teoriji selekcionih principa*, PMF, Niš.
2003. Vladimir Pavlović, *Neke dijagonalizacije osobine u topologiji*, PMF, Niš.
2000. Ljiljana Radović, *Antisimetrija i višestruka antisimetrija*, Niš.
1997. Vojkan Vuksanović, *Neke kardinalnoznačne invarijante*, Niš.

Aktivnosti u domeni uređivanja matematičkih publikacija su vrlo značajne.

- na primjer, bio je osnivač i 15 godina glavni urednik časopisa Filomat, ISSN (ISSN 0354-5180),

- urednik monografije *Selection Principles and Covering Properties in Topology*, Quaderni di Matematica 18, Dipartimento di Matematica, Seconda Università di Napoli, Caserta, 2006,

- gostujući urednik dva broja časopisa Topology and its Applications (156:1 (2008) i 158:12 (2011)),

- te urednik i/ili član uredničke ekipe nemalog broja međunarodnih matematičkih časopisa (na primjer: *Matematički Vesnik*, ISSN 0025-5165 (glavni i odgovorni urednik od 2006 do 2012), *Abstract and Applied Analysis*, ISSN 1085-3375, *Antarctica Journal of Mathematics*, ISSN 0972-8643, *Journal of Mathematics*, *Facta Universitatis (Niš)*, *Ser. Math. Inform.*, ISSN 0352-9665, *Bulletin of Society of Mathematicians Banja Luka*, ISSN 0354-5792),

- stalni recenzent većeg broja (48) međunarodnih matematičkih časopisa (na primjer: *Acta Mathematica Hungarica*, *Acta Mathematica Scientia*, *Advances in Dynamical Systems and Applications*, *Analele Stiintifice ale Universitatii Ovidius Constanta*, *Seria Matematica*, *Annals of Fuzzy Mathematics and Informatics*, *Applied General Topology*, *Applied Mathematics Letters*, *Australian Journal of Mathematical Analysis & Applications*, *Bulletin of the Malaysian Mathematical Sciences Society*, *Bulletin of Society of Mathematicians Banja Luka*, *Commentationes Mathematicae Universitatis Carolinae*, *East-West Journal of Mathematics*, *Facta Universitatis (Niš)*, *Series Mathematics and Informatics*, *Filomat*, *Fixed Point Theory and Applications*, *Fundamenta Mathematicae*, *Houston Journal of Mathematics*, *International Journal of Mathematics and Mathematical Sciences*, *Journal of Advanced Research in Pure Mathematics (JARPM)*, *Journal of Applied Analysis*, *Journal of the Franklin Institute*, *Journal of the International Mathematical Virtual Institute*, *Journal of the Korean Mathematical Society*, *Journal of Mathematical Analysis and Applications*, *Journal of the Mathematical Society of Japan*, *Matematički Vesnik*, *Order*, *Proceedings of the American Mathematical Society*, *Publications de l'Institut Mathematique*, *Publicationes Mathematicae Debrecen*, *Questions and Answers in General Topology*, *Quaestiones Mathematicae*, *Rendiconti del Circolo Matematico di Palermo*, *Soochow Journal of Mathematics*, *Tamkang Journal of Mathematics*, *Topology and its Applications* i drugi ...);

- referent dva najuglednija referativna žurnala za matematiku: *Mathematical Reviews* (preko 150 prikaza) i *Zentralblatt fur Mathematik* (preko 350 prikaza).

Učestvovao je (kao organizator ili član naučnog ili organizacionog odbora) u organizovanju 25 međunarodnih konferencija. Na primer, inicirao je i organizovao kao član naučnog i/ili organizacionog odbora 4 radionice o selekcionim principima (Workshop on Coverings, Selections and Games in Topology) te više drugih sastanaka matematičara (na primjer, *Topological Mini Conference*, Niš, April 21-22, 1989; *Filomat '92*, Niš, October 8-10, 1992; *Mathematical Conference in Priština 1994*, Priština, September 28-October 1, 1994. Short Conference “*Topology and Analysis*”, Kraljevo - Mataruška Banja, June 4-7, 1998; *Workshop on Coverings, Selections and Games in Topology*, Lecce, Italy, June 26-30, 2002; *International Conference of Mathematical Sciences*, Istanbul, Turkey, August 4-10, 2009; *IV Workshop on Coverings, Selections and Games in Topology*, Caserta, Italy, June 25-30, 2012; i druge).

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### 2. KNJIGE

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- [B2] Lj. Kočinac, A. Mandak, *Algebra II*, Univerzitet u Prištini, 1996, str. x + 356.
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### 3. SPISAK ODABRANIH RADOVA

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Podatke prikupio i uredno složio  
**Daniel A. Romano,**