

PERSONAL INFORMATION

Luka Neralić



-  Štefanićeva 7, 10000 Zagreb, Croatia
-  +385 1 3882 154  +385 98 9550 848
-  [lneralic@efzg.hr](mailto:lneralic@efzg.hr)
-  [www.efzg.unizg.hr/?id=37257](http://www.efzg.unizg.hr/?id=37257)

Sex M | Date of birth 16/10/1943 | Nationality Croatian

CURRENT POSITION

Professor emeritus

WORK EXPERIENCE

- 2015 - today **Professor emeritus**

University of Zagreb, Faculty of Economics and Business, Department of Mathematics

  - Lecturing at Seminar for mathematical programming and game theory

[High education](#)
- 2014 - today **Pensioner**
- 1967 - 2014 **Assistant, Assistant professor, Associate professor, Full professor, Full professor tenure**

University of Zagreb, Faculty of Economics and Business

  - Lectures: Mathematics, Mathematics for economists, Mathematics for Business, Mathematical programming, Linear programming and game theory, Nonlinear programming, Quantitative methods (part, at doctoral study). Scientific research, mentoring, leader of Seminar for mathematical programming and game theory at Faculty of science – Department of mathematics, Zagreb.

[High education](#)

EDUCATION

- 1976 – 1979 **Postgraduate (doctoral) Study Programme Economics and Business Economics**

University of Zagreb, Faculty of Economics and Business

  - Field: quantitative economics, qualification: PhD
  - PhD thesis: “Augmented Lagrangians and Optimality with Respect to Cost Function”, adviser: full professor tenure Ljubomir Martić , PhD
- 1967 – 1971 **Postgraduate (master) Study of Mathematics**

University of Zagreb, Faculty of Science, Department of Mathematics

  - Qualification: MSc
  - Thesis: “Dimension of normal spaces”, adviser: full professor tenure Pavle Papić , PhD
- 1962 – 1966 **Undergraduate University Programme in Mathematics**

University of Zagreb, Faculty of Science, Department of Mathematics

- Topology, qualification: BSc
- Undergraduate thesis: "Pojam dimenzije", adviser: full professor tenure Pavle Papić, PhD

TRAINING

- August – September 2001

  - Guest researcher, The Center for Russian and East European Studies (REES) and Katz Graduate School of Business, University of Pittsburgh, USA (professor Richard E. Wendell).
- August – September 2000

  - Guest researcher, The Department of Mathematics and Statistics, McGill University, Montreal, Canada (professor Sanjo Zlobec)
- October – December 1998

  - Guest researcher, Scholaship of DAAD for research at the Lehrstuhl C für Mathematik, RWTH Aachen, Germany (professor Hubertus Th. Jongen)
- June – July 1996

  - Guest researche, The Center for Russian and East European Studies (REES) and Katz Graduate School of Business, University of Pittsburgh, USA (professor Richard E. Wendell).
- June – July 1995

  - Guest researche, Scholarship of DAAD for research at Lehrstuhl C für Mathematik, RWTH Aachen, Germany (professor Hubertus Th. Jongen)
- June 1994

  - Guest researcher, The W. Averell Harriman School Management and Policy, State University of New York at Stony Brook, USA (professor Tomas T. Sexton)
- April - May 1994

  - Guest researcher, The Department of Mathematics and Statistics, McGill University, Montreal, Canada (professor Sanjo Zlobec)
- August 1985 - July 1986

  - Fullbright grant for postdoctoral research in the Center for Cybernetic Studies at the University of Texas at Austin, Austin, Texas, USA (mentor professor Abraham Charnes)
- October 1973 - July 1974

  - Fellowship for researcher at Central Economic-Mathematical Institut of USSR Academy of Sciences in Moskow, USSR (mentor professor Evgenij G. Golshtejn)

PERSONAL SKILLS

Mother tongue(s) Croatian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Russian	C1	C1	C1	C1	C1
German	B1	B1	B1	B1	B1
Spanish	A2	A2	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills ▪ Teamwork in participation and conducting scientific projects

Organisational / managerial skills ▪ Organization of domestic and international scientific meetings

Computing skills ▪ MS Office, LaTeX, Matlab

Other skills ▪ Driving licence, category B

## ADDITIONAL INFORMATION

---

**Invited lectures**

- 2005, The 23rd International Conference Mathematical Methods in Economics, Hradec Kralove, Czech Republic, plenary lecture „On Regular and Parametric Data Envelopment Analysis“ (co-author Oliver Stein)
- 1999, The 5th International Symposium on Operational Research, Preddvor, Slovenia, plenary lecture „Perturbations of all data in Data Envelopment Analysis“
- 1994, Invited Tutorial Lecture entitled „Sensitivity Analysis in Data Envelopment Analysis“ (co-author Abraham Charnes), The XVth Symposium on Mathematical Programming with Data Perturbations, Anthony W. Fiacco, Organizer, The George Washington University, Washington, D. C., USA

**Projects**

- Project of Croatian Ministry of Education and Sport, 1997-2014, Models and methods of operational research in economics and business decision making, project leaders Luka Neralić (2011-2014), Zrinka Lukač (2014), project member
- Project of Croatian Ministry of Education and Sport, 1986-1996, Quantitative methods in economic theory and practice, collaborator

**Honours and awards**

- 2017, Life Time Contribution Award “William W. Cooper”, International Data Envelopment Analysis Society (iDEAs)
- 2013., „Award for Special Contribution to CRORS“, Croatian Operational Research Society (CRORS)
- 2003., Award „Mijo Mirković“, University of Zagreb, Faculty of Economics and Business
- 2002., Visitante distinguido, mayor of the city Puebla, Mexico
- 1980., Award „Mijo Mirković“, University of Zagreb, Faculty of Economics and Business

**Public and university services**

- 1994-2014 Representative of CRORS in IFORS
- 1994-2014 Representative of CRORS in EURO
- 1992-1996 President of CRORS
- 1989-1990 President of “Society of Mathematicians and Physicists of the SR Croatia”

**Memberships in professional association or bodies**

- 1992-today, Croatian Operational Research Society (CRORS)
- 1990- today, Croatian Mathematical Society (CMS)

**Journal editor roles**  
(editor in chief, associate editor, guest editor, editorial board etc.)

- 2018 – European Journal of Operational Research, Guest Editor of the special issue
- 2011 – today, The Data Envelopment Analysis Journal, Associate Editor
- 2007 – 2017, Central European Journal of Operations Research, Co-editor
- 2001 – Optimisation, Guest Editor of the special issue

**Reviewer**  
(journals, proceedings etc.)

- 2005. – today, European Journal of Operational Research
- 2000. – today, Central European Journal of Operations Research
- 2007. – today, Annals of OR
- 2009. – today, Croatian Operational Research Review

Prominent conferences  
(program, organizing, scientific  
etc. committees)

- 2012., The 14th International Conference on Operational Research KOI 2012, Chairman of the Program Committee
- 2010., The 13th International Conference on Operational Research KOI 2010, Chairman of the Program Committee
- 2008., The 12th International Conference on Operational Research KOI 2008, Chairman of the Program Committee
- 2006., The 11th International Conference on Operational Research KOI 2006, Chairman of the Program Committee
- 2007., The 22nd European Conference on Operational Research, EURO 22, member of the organizing committee
- 1999., The 6th International Conference on Parametric Optimization and Related Topics, Dubrovnik, Croatia, Chairman of the Organizing Committee and member of the Executive Committee

Researcher's profiles

ORCID: <https://orcid.org/0000-0003-3996-3077>

Google Scholar: <https://scholar.google.hr/citations?user=tr1TIL0AAAAJ&hl=hr&oi=ao>

List of papers: <https://bib.irb.hr/lista-radova?autor=33346>

SELECTED BIBLIOGRAPHY

- Selection of 5 -10 prominent publications (excellence qualifications based on bibliometric's indicators, awards, recognized scientific, educational or public impact)
- Chen, Xiaohong; Gao, Yuyan; An, Qingxian; Wang, Zongrun; Neralić, Luka Energy efficiency measurement of Chinese Yangtze River Delta's cities transportation: a DEA window analysis approach. // Energy Efficiency, 11 (2018), 1; 1-13. doi:10.1007/s12053-018-9635-7
- Mihelja Žaja, Maja; Banker, Rajiv; Fang, Shunlan; Hunjet, Dubravko; Neralić, Luka; Wendell, Richard Efficiency Gains in Croatia's Electricity Distribution Centers Following Industry Structure Changes. // Data Envelopment Analysis Journal, 3 (2017), 1-2; 119-150. doi:10.1561/103.00000018
- Khodabakhshi, Mohammad; Rashidi, Saba; Asgharian, Masoud; Neralić, Luka Sensitivity Analysis of Input Relaxation Super Efficiency Measure in Data Envelopment Analysis. // Data Envelopment Analysis Journal, 1 (2015), 2; 113-134. doi:10.1561/103.00000009
- Neralić, Luka; Wendell, Richard E. Generalized tolerance sensitivity and DEA metric sensitivity. // Croatian Operational Research Review, 6 (2015), 1; 169-180
- Hunjet, Dubravko; Neralić, Luka; Wendell, Richard E. Evaluation of the dynamic efficiency of Croatian towns using Data Envelopment Analysis. // Central European journal of operations research, 23 (2014), 3; 675-686. doi:10.1007/s10100-014-0363-6
- Asgharian, Masoud; Khodabakhshi, Mohammad; Neralić, Luka Congestion in stochastic data envelopment analysis: An input relaxation approach. // International Journal of Statistics and Management System, 5 (2010), 1; 84-106
- Lukač, Zrinka; Hunjet, Dubravko; Neralić, Luka Solving the production-transportation problem in the petroleum industry. // Revista Investigacion Operacional, 29 (2008), 1; 63-70
- Guddat, Jürgen; Neralić, Luka; Stein, Oliver Sensitivity analysis of the proportionate change of a subset of outputs or/and inputs in DEA. // Mathematical Communications, 11 (2006), 2; 187-201
- Neralić, Luka; Wendell, Richard E. Sensitivity in data envelopment analysis using an approximate inverse matrix. // Journal of the Operational Research Society, 55 (2004), 11; 1187-1193
- Neralić, Luka; Stein, Oliver On regular and parametric data envelopment analysis. // Mathematical Methods of Operations Research, 60 (2004), 1; 15-28