

Curriculum Vitae



Personal information

First name / Surname **Zoran Rakićević**
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E-mail zoran_r@iziis.ukim.edu.mk; zoranraki@gmail.com
Nationality Macedonian
Date and place of birth 09.11.1966 Skopje, R. Macedonia
Gender M

Work experience

Dates	
2017 (ongoing)	Full professor and Deputy Director, UKIM-IZIIS, Skopje, R. North Macedonia Full professor Subject: Structural Control
2012 – 2016	Full Professor Head of Dynamic Testing Laboratory, UKIM-IZIIS, Skopje, R. Macedonia Subject: Structural Control
2006 – 2011	Associate professor Head of Dynamic Testing Laboratory, UKIM-IZIIS, Skopje, R. Macedonia Subject: Structural Control
2002 – 2006	Assistant professor Department: Experimental Mechanics and Structural Control, IZIIS, Skopje, R. Macedonia Subject: Structural Control
1995 – 2001.	Research Assistant Dynamic Testing Laboratory - Department for Experimental Mechanics, IZIIS, Skopje, R. Macedonia
1992 – 1995.	Young Scientific Researcher Dynamic Testing Laboratory IZIIS, Skopje, R. Macedonia
Occupation or position held	Full professor, Deputy Director for International Cooperation and Development

Main activities and responsibilities Structural Control and Health Monitoring
Dynamics of Structures
Experimental Mechanics
Earthquake Resistant Design of Structures
Structural Analysis
Development of software and applications

Name and address of employer "Ss. Cyril and Methodius" University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS), Skopje, R. North Macedonia,
165 Todor Aleksandrov, Skopje, R. North Macedonia

Type of business or sector Civil engineering, Structural engineering, Earthquake engineering, Testing

Education and training

Dates **2001 - Doctor of Technical Science**
Institute of Earthquake Engineering and Engineering Seismology, University "Ss. Cyril and Methodius"
Skopje, Republic of Macedonia
Subject of Examination: Seismic Behavior of Buildings with Passive Systems for Increasing of Stiffness and Damping

1995 - Master of Technical Science (M.Sc.)
Institute of Earthquake Engineering and Engineering Seismology University "Ss. Cyril and Methodius"
Skopje, Republic of Macedonia
Subject of Examination: Development of a Passive Control System for High-rise Steel Frame Structures

1991 - Graduate Civil Engineer
Civil Engineering Department
University "Ss. Cyril and Methodius" Skopje, Republic of Macedonia
Subject of Examination: Design and Analysis of Reinforced Concrete Frame Building

Principal subjects/occupational skills covered Earthquake engineering, Structural Control, Experimental Mechanics

Name and type of organisation providing education and training "Ss. Cyril and Methodius" University in Skopje, Institute of Earthquake Engineering and Engineering Seismology (IZIIS), Skopje, R.N. Macedonia

Personal skills and competences

Mother tongue Macedonian

Other language(s)

Self-assessment
European level ()*

Language
Language

	Understanding		Speaking		Writing	
	Listening	Reading	Spoken interaction	Spoken production		
English	C	C	C	C		C
Serbian	C	C	C	C		C
Croatian	C	C	C	C		C
Bulgarian	B	B	A	A		A

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences excellent

Organisational skills and competences	<p>Excellent (Member of Organizing Committee) of three conferences.</p> <p>2015 – International IZIIS50 Conference to mark 50 years of IZIIS Skopje May 12-16, MSC Cruse, Northern Europe(Member of LOC)</p> <p>2013– International SE-50EEE Conference to mark 50 years of Skopje Earthquake, May 28-31, Skopje,(Member of LOC)</p> <p>2010 –14th European Conference on Earthquake Engineering, August 29 – September 03, Ohrid, R. Macedonia, Member of LOC</p> <p>Head of unit Dynamic Testing Laboratory 2006-2016, UKIM-IZIIS, Skopje, R. Macedonia</p> <p>Deputy Director, 2017 - UKIM-IZIIS, Skopje, R. Macedonia</p> <p>President of Macedonian Association of Structural Control (MAEE) 2018 – 2022; 2022-2026</p>
Technical skills and competences	excellent
Computer skills and competences	Ansys, SAP2000, ETABS, RADIMPEX, AutoCad, Microsoft Office, Adobe photoshop, Adobe Illustrator, LabVIEW, DIAdem, Artemis Modal Pro
Artistic skills and competences	/
Other skills and competences	Design and review of structures for earthquake resistance and seismic stability of buildings Design: more than 30; Review: more than 550
Driving licence	B

Additional information

2011-2022 – Member of Advisory Board of the journal Structural Control and Health Monitoring, John Wiley & Sons Ltd

2022 till present – Member of Editorial Board and Academic Editor, Journal Structural Control and Health Monitoring, Hindawi, London, UK

2003 – Award for best achievement in structural engineering for research project " Seismic Behavior of Buildings with Passive Systems for Increasing of Stiffness and Damping" for 2001 - Macedonian Association of Structural Engineers.

PROJECT

Optimum Design of Passive Controlled Steel Frame Structures.

Period of Realization: 1996 - 2001

Proof Tests on a Shaking Table of a ventilated facade system Manufactured by SONICO, Italy

Investor: SONICO, Italy

Period of Realization: 2005

Proof Tests on a Shaking Table of a New Brick Laying System Patented by Prexo Bloque, Norway;

Investor: Prexo Bloque, Norway;

Period of Realization: January-March 2007

Shaking Table Testing of Wienerberger Unreinforced Masonry Models without and with Antiseismic Devices;

Investor: Wienerberger, AG, Austria;

Period of Realization: January-March 2007;

Ambient Vibration Measurements of the Machinery Buildings of the Chute Hemmings Powerhouse near Drummondville, Quebec, Canada.

Investor: Hydro Quebec, Canada;

Period of Realization: 2007

Shaking Table Testing of a Frame Model with GERB Base Control System (BCS) and with Tuned Mass Control System (TMCS)

Investor: GERB Schwingungsisolierungen GmbH & Co. KG,;Germany

Period of Realization: 2007

Shaking Table Testing of a steel frame structure with and without PDD (pre-stress damping devices manufactured by GERB, Germany

Investor: GERB Schwingungsisolierungen GmbH & Co. KG,;Germany

Period of Realization: December-February 2008-2009

Shaking Table Testing of Wienerberger Unreinforced Masonry Models without and with Antiseismic Devices;

Investor: Wienerberger, AG, Austria;

Period of Realization: April-May 2009

EC FP7 Project UREDITEME – UPGRADING OF RESEARCH EQUIPMENT FOR DYNAMIC TESTING OF LARGE SCALE MODELS Grant Number 230099 (2009 – 2012), Leader of Working package 2.

EC FP7 Project SERIES – SEISMIC ENGINEERING RESEARCH INFRASTRUCTURES FOR EUROPEAN SYNERGIES, Grant Number 227887 (2009-2013), PI – IZIIS Project Partner Manager.

Static and Dynamic Tests of a Steel Frame Model with GERB Base Control System and Preloading Devices

Investor: GERB Schwingungsisolierungen GmbH & Co. KG,;Germany

Period of Realization: 2011

Seismic Qualification According to IEEE Std. 693-2005 of a Gas Insulated Switch Gear Type 8DN8

Investor: Siemens AG, Energy Sector, Germany

Period of Realization: 2012

EC H2020 Project SERA - Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe, Grant Number 730900 (2016-2019), PI – IZIIS Project Partner Manager (WP14 leader)

EC DG-ECHO CRISIS - Integrative strengthening of seismic risk awareness, UCPM-2020-PP, UCPM-2020-CBR-AG - Prevention and Preparedness for Cross-Border Risks, Grant Number 101004830 (2020-2022)

EC DG-ECHO ISRA - Integrative strengthening of seismic risk awareness, UCPM-2022-PP, Cross-Border Risks and Marine Pollution, Grant Number 101101255 (2022-2024)

EC Horizon Europe ERIES - ENGINEERING RESEARCH INFRASTRUCTURES FOR EUROPEAN SYNERGIES, HORIZON-INFRA-2021-SERV-01-07, Grant Number 101058684 (2022-2026)

Annexes

Reference list

<https://scholar.google.com/citations?hl=en&user=PClclakFQAAAAJ>

<https://orcid.org/0000-0002-5805-2562>

1. Jurukovski, D. and Rakicevic, Z. (1994): Vibration Base Isolation Development and Application, Proceedings of 10th European Conference on Earthquake Engineering, September 1994, Vienna, Austria
2. Zarri, F., Tashkov, Lj, Jurukovski, D., Bojadziev, M. and Rakicevic, Z. (1995): Analytical Modeling of Seismic Stability of PALASPORT Bologna Using Experimental Data, Proceedings 3rd National Conference on Earthquake Engineering, March 1995, Istanbul, Turkey
3. Rakicevic, Z. and Jurukovski, D. (1995): Passive and Active Control Systems-IZIIS Experience", 18th European Regional Seminar of Earthquake Engineering for Young Scientists and Engineers, September 1995, Lyon, France.
4. Zarri, F., Jurukovski, D., Tashkov, Lj, Bojadziev, M. and Rakicevic, Z. (1995): Analytical Modeling of Dynamic Behavior of Palasport-Bologna Using Experimental Data, 6th Symposium of Macedonian Association of Structural Engineers, October 1995, Ohrid, Republic of Macedonia (In Macedonian)
5. Rakicevic, Z. and Jurukovski, D. (1995): Development of a passive control system for steel frame structures of high-rises", 6th Symposium, Macedonian Association of Structural Engineers, 05-07 October 1995, Ohrid, Republic of Macedonia (In Macedonian)
6. Zarri, F., Jurukovski, D., Tashkov, Lj. and Rakicevic, Z. (1996): Dynamic Behaviour of the PALASPORT-Bologna under Seismic and Wind Loading, EURO DYN'96, Florence Italy.
7. Rakicevic, Z. and Jurukovski, D. (1996): Development of a Passive Control System for Steel Frame Structures, Proceedings of 11th World Conference on Earthquake Engineering, June 1996, Acapulco, Mexico.
8. Zarri, F., Tashkov, Lj. and Rakicevic, Z. (1996): Analytical Determination of Seismic Stability of Palasport-Bologna, Proceedings of 11th World Conference on Earthquake Engineering, June 1996, Acapulco, Mexico.
9. Rakicevic, Z. and Jurukovski, D. (1997): Evaluation of q-factor for non-standard steel dual systems 7th International Symposium, Macedonian Association of Structural Engineers, 02-04 October 1997, Ohrid, Republic of Macedonia (In Macedonian)
10. Jurukovski, D. and Rakicevic, Z. (1997): Dynamic Behaviour of Steel Frame Structures with Dissipative Systems, Prof. Dr. Rifat Yarar Symposium, December 1997, Istanbul, Turkey
11. Zelenovic V., Tashkov Lj., Bojadziev M., Rakicevic Z. (1998), Dynamic Testing of Machinery Hall Steel Structure and Turbogenerator of Steam Power Plant "GACKO", Symposium, Vrnjacka Banja, SR Yugoslavia, June 1998 (in Serbian)
12. Rakicevic Z., Jurukovski D. (1998): Behaviour factor (q-factor) for non-standard dual steel frame structures, 11 ECEE, Paris, France, September 6-11.
13. Rakicevic Z., Jurukovski D. (1998) Application of the DEFD Passive Control System in a 6-Storey Steel Frame Structure, Earthquake Prognostics World Forum: Seismic Safety of Big Cities, 21-25 September 1998, Istanbul, Turkey.
14. Jurukovski D., Rakicevic Z. (1999): Design and Retrofit of Structures Using Passive Energy Dissipation Systems, 8th International Symposium, Macedonian Association of Structural Engineers, 30.09 – 02.10 1999, Ohrid, Republic of Macedonia (In Macedonian)
15. Rakicevic Z., Jurukovski D. (1999): Quasi-Static Testing of a Passive Energy Dissipation System Developed in IZIIS, 8th International Symposium, Macedonian Association of Structural Engineers, 30.09 – 02.10 1999, Ohrid, Republic of Macedonia (In Macedonian)
16. Rakicevic Z., Jurukovski D. (2000): Passive Energy Dissipation System for Non-Standard Dual Steel Frame Structures, to be published in Proc. of Second European Conference on Structural Control, ENPC, Champs-sur-Marne, France, July 3-6, 2000
17. Rakicevic Z., Jurukovski D. (2001): Shaking Table Tests of a Five Storey Steel Frame Model With Passive Control System, 9th International Symposium, Macedonian Association of Structural Engineers, 27.09 – 29.09 2001, Ohrid, Republic of Macedonia (In Macedonian)
18. Rakicevic Z., Jurukovski D. (2001): Mathematical Modeling of a Five Storey Steel Frame Model With Passive Control System Using Seismic Shaking Table Experiments, 9th International Symposium, Macedonian Association of Structural Engineers, 27.09 – 29.09 2001, Ohrid, Republic of Macedonia (In Macedonian)
19. Rakicevic Z., Jurukovski D. (2002): Shaking Table Testing and Mathematical Modeling of a 5-Storey Steel Frame Structure With Passive Energy Dissipation System, 3-rd World Conference on Structural Control, Como, Italy 7-12 April 2002
20. Jurukovski D., Rakicevic Z. (2002): Effectiveness of a DEFD Passive Energy Dissipation System compared to Conventional Moment Resisting Frame and Dual Structural System, 3-rd World Conference on Structural Control, Como, Italy April 7-12.

21. Rakicevic Z., Jurukovski D. (2002): Shaking Table Testiing, Mathematical Modelleing and Effectiveness Analysis of 5-Storey Steel Frame Structure with DEFD Passive Energy Dissipation System, Eurodyn 2002, Munich, Germany, September 2-5
22. Rakicevic Z., Jurukovski D. (2002): Shaking Table Testing of a 5-Storey Steel Frame Structure With Passive Energy Dissipation System, 12 ECEE, London, UK, September 6-11.
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24. Jurukovski D, Rakicevic Z. (2003): Comparative Analysis of Effectiveness of Earthquake Design School and Hospital Buildings by EC-8 and National Code, International Workshop on Safety and Emergency Management of Essential Facilities, Ohrid, R. Macedonia, June 19 – 21.
25. Rakicevic Z. (2003): DEFD – IZIIS Concept for Passive Structural Control, SE-40EEE, Ohrid, REPUBLIC OF Macedonia, August 26-29
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28. Rakicevic Z., Jurukovski D. (2003): Damping Effect in Control of Dynamic Response of Structures, 10th International Symposium, Macedonian Association of Structural Engineers, 24.09 – 26.09 2003, Ohrid, Republic of Macedonia (In Macedonian)
29. Rakicevic Z. (2003): Seismic Behavior of Buildings with Passive Systems for Increasing of Stiffness and Damping, Awarded as best scientific study for 2001, 10th International Symposium, Macedonian Association of Structural Engineers, 24.09 – 26.09 2003, Ohrid, Republic of Macedonia (In Macedonian)
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33. Jurukovski D., Nawrotzki P. and Rakicevic Z (2005): Shaking Table Testing of Frame Structure With Base Control System and Tuned Mass Control System, EE-21C–International conference to mark 40 years aniversary of IZIIS Skopje, Skopje-Ohrid August 27-September 01.
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45. Rakicevic Z., Zlateska, A., Jurukovski D. (2009): Optimal Damping Capacity of Steel Frame Structures, 12th International Symposium Macedonian Association of Structural Engineers, October 14-17, 2009, Ohrid, Republic of Macedonia
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50. Bogdanovic, A., Rakicevic Z., Jurukovski D., Kammerer H., Nawrotzki P. (2010): Analytical Estimation of the Effectiveness of Prestressed Damping Devices Using Shaking Table Experiments, 14th European Conference on Earthquake Engineering, Ohrid, Republic of Macedonia, 30 August – September 03, 2010.
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