

## Curriculum Vitae - Dr. Ing. Miroslav Marjanovic

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## PERSONAL INFORMATION

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**Date of Birth:** 08-January-1986

**Residence:** Belgrade

**Nationality:** Serbian

**Marital Status:** Married, 1 child

## ACADEMIC CAREER

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**2016 – Assistant Professor – Engineering Mechanics and Theory of Structures**

**University of Belgrade - Faculty of Civil Engineering**

Courses: Theory of Composite Structures (PhD), Structural Analysis (BSc), Matrix Structural Analysis (BSc), Application of Computer Programs in Design of Structures (BSc)

**2010 - 2016 Teaching Assistant - Engineering Mechanics and Theory of Structures**

**University of Belgrade - Faculty of Civil Engineering**

**2007-2008 Student-Demonstrator**

**University of Belgrade - Faculty of Civil Engineering**

## EDUCATION

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**2010-2016 PhD Studies – Study Program Civil Engineering**

**University of Belgrade - Faculty of Civil Engineering; GPA 100%**

Thesis: Nonlinear Analysis of Laminated Composite Plates and Shells with Delaminations using Finite Element Method (Advisors: Dj. Vuksanović, G. Meschke)

**2009-2010 MSc Studies – Module Structural Engineering**

**University of Belgrade - Faculty of Civil Engineering; GPA 97.1%**

Thesis: Application of Composite Structures in Multi-Storey Car Parks (in Serbian)

**2005-2009 BSc Studies – Module Structural Engineering**

**University of Belgrade - Faculty of Civil Engineering; GPA 95.6%**

Thesis: Design of Double-Nave Industrial Hall (in Serbian)

## AWARDS

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**2018 Award of the Association of Structural Engineers of Serbia** for the best scientific achievement in structural engineering in 2016-2017

**2009 Award of the Faculty of Civil Engineering in Belgrade** (Professor Dušan Krajčinović Foundation) for the outstanding results in subjects of the Chair of Engineering Mechanics and Theory of Structures

**2009 Award of the Regional Chamber of Commerce Užice**

## RESEARCH EXPERIENCE

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<b>2016</b>	Research visit at <b>Politehnica Universitatea Timișoara</b> (1 week)
<b>2012-2015</b>	Research stays at <b>Ruhr-Universität Bochum</b> - Lehrstuhl für Statik und Dynamik (7 months, advisor: Prof. Dr.-techn. Günther Meschke)
<b>2011</b>	Workshop " <b>Scientific Presentation</b> " – Ruhr-Universität Bochum – Research School
<b>2010</b>	Summer School " <b>Model Validation and Simulation</b> " – Bauhaus Universität Weimar
<b>2009 &amp; 2010</b>	Summer School " <b>Vibrations of Structures due to Rail-Road Traffic</b> " – Faculty of Civil Engineering - University of Belgrade & Technische Universität München

## PARTICIPATION IN PROJECTS

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<b>2015 - 2017</b>	Erasmus+ KA1 Action: Faculty of Civil Engineering, University of Belgrade & Politehnica Universitatea Timișoara ( <b>Department Coordinator</b> )
<b>2011 -</b>	<b>TR-36048</b> Research on condition assessment and improvement methods of civil engineering structures in view of their serviceability, load-bearing capacity, cost effectiveness and maintenance - Ministry of Education, Science and Technological Development of the Republic of Serbia ( <b>Researcher</b> )

## SCHOLARSHIPS

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<b>2011-2015</b>	<b>SEEFORM</b> – Scholar of the South East European Graduate School for Master and PhD Formation
<b>2009</b>	Scholarship of the <b>Foundation for the Development of Scientific and Artistic Youth</b> of the Republic of Serbia
<b>2008 &amp; 2009</b>	<b>DOSITEJA</b> - Scholarships of the Foundation for Young Talents of the Republic of Serbia
<b>2006-2010</b>	Scholarship of the Serbian Business Club " <b>Privrednik</b> " (Delta M Co. Belgrade)
<b>2006-2009</b>	Scholarship of the <b>City of Užice</b>
<b>2005-2010</b>	Scholarship of the <b>Ministry of Education and Sport</b> of the Republic of Serbia
<b>2005-2010</b>	Scholarship of the " <b>AD PUTEVI Užice</b> "

## OTHER

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<b>Software</b>	MATLAB, python, Abaqus, SAP2000, ETABS, MS Office, AutoCAD
<b>Languages</b>	<b>English</b> (B2), <b>Russian</b> (A1), <b>Serbian</b> (native)
<b>Interests</b>	Theory of laminated composite plates and shells, Structural vibration, Finite element and dynamic stiffness methods, Fracture mechanics, Non-linear structural analysis, Application of smart materials in civil engineering
<b>Memberships</b>	<b>SSM</b> - Serbian Society of Mechanics <b>ASES</b> - Association of Structural Engineers of Serbia
<b>Reviewer</b>	Journal of the Brazilian Society of Mechanical Sciences and Engineering, Earthquake Engineering and Engineering Vibration, Journal of Vibration and Acoustics – ASME, European Journal of Mechanics - A/Solids, International Journal of Mechanical Sciences, Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, International Journal of Mechanics and Materials in Design, Science and Engineering of Composite Materials, Structural Engineering and Mechanics, International Journal of Acoustics and Vibration, Shock and Vibration, Scientia Iranica, Journal of Composite Materials, Mechanics of Advanced Materials and Structures

# List of References

## 1. PEER-REVIEWED JOURNAL PAPERS

- 1.1. Stojić D, Nestorović T, Marković N, **Marjanović M**. Experimental and numerical research on damage localization in plate-like concrete structures using hybrid approach. *Structural Control and Health Monitoring* 2018; 25: e2214. doi:10.1002/stc.2214
- 1.2. Damnjanović E, **Marjanović M**, Nefovska-Danilović M. Free vibration analysis of stiffened and cracked laminated composite plate assemblies using shear-deformable dynamic stiffness elements. *Composite Structures* 2017; 180: 723-740. doi:10.1016/j.compstruct.2017.08.038
- 1.3. Marković N, Nestorović T, Stojić D, **Marjanović M**, Stojković N. Hybrid approach for two dimensional damage localization using piezoelectric smart aggregates. *Mechanics Research Communications* 2017; 85: 69-75. doi:10.1016/j.mechrescom.2017.08.011
- 1.4. **Marjanović M**, Kolarevic N, Nefovska-Danilovic M, Petronijevic M. Shear deformable dynamic stiffness elements for a free vibration analysis of composite plate assemblies - Part II: Numerical examples. *Composite Structures* 2017; 159: 183-196. doi:10.1016/j.compstruct.2016.09.023
- 1.5. Nefovska-Danilovic M, Kolarevic N, **Marjanović M**, Petronijevic M. Shear deformable dynamic stiffness elements for a free vibration analysis of composite plate assemblies - Part I: Theory. *Composite Structures* 2017; 159: 728-744. doi:10.1016/j.compstruct.2016.09.022
- 1.6. **Marjanović M**, Kolarević N, Nefovska-Danilović M, Petronijević M. Free vibration study of sandwich plates using a family of novel shear deformable dynamic stiffness elements: limitations and comparison with the finite element solutions. *Thin-Walled Structures* 2016; 107: 678-694. doi:10.1016/j.tws.2016.08.002
- 1.7. **Marjanović M**, Meschke G, Vuksanović Dj. A finite element model for propagating delamination in laminated composite plates based on the Virtual Crack Closure method. *Composite Structures* 2016; 150: 8-19. doi:10.1016/j.compstruct.2016.04.044
- 1.8. Kolarevic N, **Marjanović M**, Nefovska-Danilovic M, Petronijevic M. Free vibration analysis of plate assemblies using the dynamic stiffness method based on the higher order shear deformation theory. *Journal of Sound and Vibration* 2016; 364: 110-132. doi:10.1016/j.jsv.2015.11.016
- 1.9. **Marjanović M**, Vuksanović Dj. Free vibrations of laminated composite shells using the rotation-free plate elements based on Reddy's layerwise discontinuous displacement model. *Composite Structures* 2016; 159: 320-332. doi:10.1016/j.compstruct.2015.07.125
- 1.10. **Marjanović M**, Vuksanović Dj, Meschke G. Geometrically nonlinear transient analysis of delaminated composite and sandwich plates using a layerwise displacement model with contact conditions. *Composite Structures* 2015; 122: 67-81. doi:10.1016/j.compstruct.2014.11.028
- 1.11. **Marjanović M**, Vuksanović Dj. Layerwise solution of free vibrations and buckling of laminated composite and sandwich plates with embedded delaminations. *Composite Structures* 2014; 108: 9-20. doi:10.1016/j.compstruct.2013.09.006

## 2. PAPERS IN CONFERENCE PROCEEDINGS

- 2.1. **Marjanović M**, Petronijević M (09/2018). Pushover analysis of bridges including soil-structure interaction effects. 15th Congress hosted by Association of Structural Engineers of Serbia. Zlatibor, Serbia, 06-08.09.2018., 166-175.
- 2.2. Petronijević M, **Marjanović M**, Radeka P (06/2018). Seismic Assessment of RC Buildings using N2 Method. Sixth International Conference Earthquake Engineering and Engineering Seismology. Kraljevo, Serbia, 13-15.06.2018., 387-395.

- 2.3. Petronijević M, **Marjanović M**, Milojević D. Pushover Analysis for Seismic Assessment of RC Nišava Bridge. 16th European Conference on Earthquake Engineering. Thessaloniki, Greece, 18-21.06.2018., Paper 10906.
- 2.4. Milojević D, **Marjanović M**, Petronijević M (10/2017). Dynamic Analysis of RC Bridge: Beam versus Shell Deck Model. 17th International Symposium of MASE. Ohrid, Macedonia, Paper SE-13.
- 2.5. **Marjanović M**, Kovačević D (06/2017). Free and forced vibration analysis of delaminated composite plates of arbitrary shape using triangular layered finite elements. 6th International Congress of Serbian Society of Mechanics. Tara, Serbia, Paper S6b.
- 2.6. Damnjanović E, Nefovska-Danilović M, Petronijević M, **Marjanović M** (09/2017). Application of the dynamic stiffness method in the vibration analysis of stiffened composite plates. *Procedia Engineering* 2017; 199: 224-229 (10th International Conference on Structural Dynamics EURODYN 2017, Rome, Italy).
- 2.7. Damnjanović E, Nefovska-Danilović M, Jočković M, **Marjanović M**, Kolarević N (09/2016). Dynamic stiffness elements for free vibration analysis of stiffened plates. 15th Conference hosted by Association of Structural Engineers of Serbia. Zlatibor, Serbia, 557-566. *ISBN 978-86-7892-839-0*
- 2.8. **Marjanović M**, Petronijević M (06/2016). Influence of Soil-Structure-Interaction on Nonlinear Time History Seismic Response of RC Frames. Fifth International Conference Earthquake Engineering and Engineering Seismology. Sremski Karlovci, Serbia, 387-398. *ISBN 978-86-88897-08-*
- 2.9. **Marjanović M**, Kolarević N, Nefovska-Danilović M, Petronijević M (04/2016). Shear deformable dynamic stiffness elements for free vibration analysis of rectangular isotropic multilayer plates. *International Conference Contemporary Achievements in Civil Engineering 2016*. Subotica, Serbia, 279-288. *ISBN 978-86-80297-63-7*
- 2.10. Vuksanović Dj, **Marjanović M**, Kovačević D (03/2016). Finite element modeling of free vibration problem of delaminated composite plates using Abaqus CAE. 6th International Conference Civil Engineering – Science and Practice. Žabljak, Montenegro, 313-320. *ISBN 978-86-82707-30-1*
- 2.11. Petronijević M, Kovačević D, Marjanović M, Radišić M, Marjanović M (09/2014). Influence of soil-structure interaction on the seismic response of RC buildings. 14th Conference hosted by Association of Structural Engineers of Serbia - ASES. Novi Sad, Serbia, 165-174. *ISBN 978-86-85073-19-9*
- 2.12. **Marjanović M**, Vuksanović Dj (07/2014). Transient analysis of laminated composite and sandwich plates with embedded delaminations using GLPT. 9th International Conference on Structural Dynamics EURODYN 2014. Porto, Portugal, 3373-3380. *ISSN 2311-9020*
- 2.13. Petronijević M, **Marjanović M**, Radišić M, Marjanović M, Nefovska-Danilović M (05/2014). Comparative seismic analysis of RC buildings under influence of soil-structure interaction. 4th International Conference Earthquake Engineering and Engineering Seismology. Borsko jezero, Serbia, 343-352. *ISBN 978-86-88897-05-1*
- 2.14. **Marjanović M**, Vuksanović Dj (04/2014). Geometrically nonlinear transient analysis of delaminated composite plates. *International Conference Contemporary Achievements in Civil Engineering 2014*. Subotica, Serbia, 465-471. *ISSN 0352-6852*
- 2.15. Vuksanović Dj, **Marjanović M** (02/2014). Free vibrations of delaminated composite and sandwich plates. 5th International Conference Civil Engineering – Science and Practice. Žabljak, Montenegro, 363-370. *ISBN 978-86-82707-23-3*
- 2.16. **Marjanović M**, Vuksanović Dj (06/2013). Linear Analysis of Single Delamination in Laminated Composite Plate using Layerwise Plate Theory. 4th International Congress of Serbian Society of Mechanics. Vrnjačka Banja, Serbia, 443-448. *ISBN 978-86-909973-5-0*
- 2.17. **Marjanović M**, Vuksanović Dj (11/2012). Linear Transient Analysis of Laminated Composite Plates using GLPT. First international conference for PhD students in Civil Engineering, Cluj-Napoca, Romania, 169-176. *ISBN 978-973-757-710-8*

- 2.18.** **Marjanović M**, Vuksanović Dj (09/2012). Transient Response of Cross-Ply Laminated Composite Plates. International Symposium for Students of Doctoral Studies in the fields of Civil Engineering, Architecture and Environmental Protection. Niš, Serbia, 345-352. *ISBN 978-86-88601-05-4*
- 2.19.** Budjevac D, Spremić M, **Pavlović M**, **Marjanović M** (02/2012). Comparative Analysis of Composite Beams in Large Span Floor Structures. 4th International Conference Civil Engineering – Science and Practice. Žabljak, Montenegro, 861-868. *ISBN 978-86-82707-21-9*

### **3. PAPERS IN MONOGRAPHS**

- 3.1.** Meschke G, Vuksanović Dj, **Marjanović M** (2016). Finite Element Analysis of Propagating Delamination in Laminated Composite Plates. In: Petronijević M, Stevanović B, Rakočević M (Eds.): "Contemporary Problems of Theory of Structures", Faculty of Civil Engineering, University of Belgrade, Faculty of Civil Engineering, University of Montenegro. Belgrade, 2016, 1-10. *ISBN 978-86-86363-69-5*
- 3.2.** Petronijević M, Nefovska-Danilović M, Kolarević N, **Marjanović M**, Jočković M (2016). Dynamic Stiffness Method in Dynamic Analysis of Plate Assemblies – Part 1: Theory. In: Petronijević M, Stevanović B, Rakočević M (Eds.): "Contemporary Problems of Theory of Structures", Faculty of Civil Engineering, University of Belgrade, Faculty of Civil Engineering, University of Montenegro. Belgrade, 2016, 79-90. *ISBN 978-86-86363-69-5*
- 3.3.** Petronijević M, Nefovska-Danilović M, Kolarević N, **Marjanović M**, Jočković M (2016). Dynamic Stiffness Method in Dynamic Analysis of Plate Assemblies – Part 2: Applications. In: Petronijević M, Stevanović B, Rakočević M (Eds.): "Contemporary Problems of Theory of Structures", Faculty of Civil Engineering, University of Belgrade, Faculty of Civil Engineering, University of Montenegro. Belgrade, 2016, 91-100. *ISBN 978-86-86363-69-5*

### **4. THESES**

- 4.1.** **Marjanović M**. Nonlinear Analysis of Laminated Composite Plates and Shells with Delaminations using Finite Element Method. Doctoral Dissertation, University of Belgrade, Faculty of Civil Engineering, 2016, 1-251.
- 4.2.** **Marjanović M**. Application of Composite Structures in Multi-Storey Car Parks. MSc Thesis (in Serbian), University of Belgrade, Faculty of Civil Engineering, 2010, 1-275.
- 4.3.** **Marjanović M**. Design and verification of two-bay industrial building. BSc Thesis (in Serbian), University of Belgrade, Faculty of Civil Engineering, 2009, 1-111.

### **5. OTHER JOURNAL PAPERS**

- 5.1.** Damjanović E, **Marjanović M**, Nefovska-Danilović M, Jočković M, Kolarević N. Application of dynamic stiffness method in numerical free vibration analysis of stiffened plates. *Građevinski materijali i konstrukcije* 2017; 60(2): 21-32. **doi:10.5937/grmk1702021D**
- 5.2.** Vuksanović Dj, **Marjanović M**. Application of layered finite elements in the numerical analysis of laminated composite and sandwich structures with delaminations. *Građevinski materijali i konstrukcije* 2015; 58(1): 59-76. **doi:10.5937/grmk1501059V**
- 5.3.** **Marjanović M**, Vuksanović Dj. Linear Transient Analysis of Laminated Composite Plates using GLPT. *Acta Technica Napocensis: Civil Engineering & Architecture* 2013; 56(2): 58-71.