

Name of teacher:	Leo Škec
Employed at: Since:	Faculty of Civil Engineering, University of Rijeka 01/02/2009
Title: Since: In:	Assistant professor 01/12/2015 technical sciences / basic technical sciences / applied mechanics
e-mail address, web page	leo.skec@uniri.hr
Knowledge of foreign languages:	English, Italian

Qualifications	<ul style="list-style-type: none"> - date of birth, nationality: 15/01/1985, Croatian - First degree obtained at: Faculty of Civil Engineering, University of Rijeka (2003-2008) - Master degree obtained at: - Ph.D. degree obtained at: Faculty of Civil Engineering, University of Rijeka (2009-2014) - additional education: - previous employments: Faculty of Civil Engineering, University of Rijeka, as a teaching assistant (2009-2014) and postdoc (2014-2015), Brunel University London, as a postdoc (2016-2018)
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List of papers published in scientific journals	<ol style="list-style-type: none"> [1] Škec, Leo. <i>Identification of parameters of a bi-linear cohesive-zone model using analytical solutions for mode-I delamination</i>. Engineering fracture mechanics. 214 (2019), 558-577. [2] Škec, Leo; Alfano, Giulio; Jelenić, Gordan. <i>Enhanced simple beam theory for characterising mode-I fracture resistance via a double cantilever beam test</i>. Composites Part B - Engineering. 167 (2019) 1-2, 250-262. [3] Škec, Leo; Alfano, Giulio; Jelenić, Gordan. <i>Complete analytical solutions for double cantilever beam specimens with bi-linear quasi-brittle and brittle interfaces</i>. International journal of fracture. 215 (2019) 1-2, 1-37. [4] Škec, Leo; Alfano, Giulio; Jelenić, Gordan. <i>On G(c), J(c) and the characterisation of the mode-I fracture resistance in delamination or adhesive debonding</i>. International journal of solids and structures. 144 (2018), 100-122. [5] Škec, Leo; Jelenić, Gordan. <i>Geometrically non-linear multi-layer beam with interconnection allowing for mixed-mode delamination</i>. Engineering fracture mechanics. 169 (2017), 1-17. [6] Škec, Leo; Jelenić, Gordan; Lustig, Nikola. <i>Mixed-mode delamination in 2D layered beam finite elements</i>. International journal for numerical methods in engineering. 104 (2015), 8; 767-788. [7] Šćulac, Paulo; Jelenić, Gordan; Škec, Leo. <i>Kinematics of layered reinforced-concrete planar beam finite elements with embedded transversal cracking</i>. International journal of solids and structures. 51 (2014), 1; 74-92. [8] Škec, Leo; Jelenić, Gordan. <i>Analysis of a geometrically exact multi-layer beam with a rigid interlayer connection</i>. Acta mechanica. 225 (2014), 2; 523-541. [9] Škec, Leo; Bjelanović, Adriana; Jelenić, Gordan. <i>Glued Timber-Concrete Beams - Analytical and Numerical Models for Assessment of Composite Action</i>. Engineering review. 33 (2013), 1; 41-49. [10] Škec, Leo; Schnabl, Simon; Planinc, Igor; Jelenić, Gordan. <i>Analytical modelling of multilayer beams with compliant interfaces</i>. Structural engineering and mechanics. 44 (2012), 4; 465-485.
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List of publications which serve as a proof of teaching qualifications	<ol style="list-style-type: none"> [1] Škec, Leo. <i>Identification of parameters of a bi-linear cohesive-zone model using analytical solutions for mode-I delamination</i>. Engineering fracture mechanics. 214 (2019), 558-577. [2] Škec, Leo; Alfano, Giulio; Jelenić, Gordan. <i>Enhanced simple beam theory for characterising mode-I fracture resistance via a double cantilever beam test</i>. Composites Part B - Engineering. 167 (2019) 1-2, 250-262. [3] Škec, Leo; Alfano, Giulio; Jelenić, Gordan. <i>Complete analytical solutions for double cantilever beam specimens with bi-linear quasi-brittle and brittle interfaces</i>. International journal of fracture. 215 (2019) 1-2, 1-37. [4] Škec, Leo; Alfano, Giulio; Jelenić, Gordan. <i>On G(c), J(c) and the characterisation of the mode-I fracture resistance in delamination or adhesive debonding</i>. International journal of solids and structures. 144 (2018), 100-122. [5] Škec, Leo; Jelenić, Gordan. <i>Geometrically non-linear multi-layer beam with interconnection allowing for mixed-mode delamination</i>. Engineering fracture mechanics. 169 (2017), 1-17.
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	<p>[6] Škec, Leo; Jelenić, Gordan; Lustig, Nikola. <i>Mixed-mode delamination in 2D layered beam finite elements</i>. International journal for numerical methods in engineering. 104 (2015), 8; 767-788.</p> <p>[7] Šćulac, Paulo; Jelenić, Gordan; Škec, Leo. <i>Kinematics of layered reinforced-concrete planar beam finite elements with embedded transversal cracking</i>. International journal of solids and structures. 51 (2014), 1; 74-92.</p> <p>[8] Škec, Leo; Jelenić, Gordan. <i>Analysis of a geometrically exact multi-layer beam with a rigid interlayer connection</i>. Acta mechanica. 225 (2014), 2; 523-541.</p> <p>[9] Škec, Leo; Bjelanović, Adriana; Jelenić, Gordan. <i>Glued Timber-Concrete Beams - Analytical and Numerical Models for Assessment of Composite Action</i>. Engineering review. 33 (2013), 1; 41-49.</p> <p>[10] Škec, Leo; Schnabl, Simon; Planinc, Igor; Jelenić, Gordan. <i>Analytical modelling of multilayer beams with compliant interfaces</i>. Structural engineering and mechanics. 44 (2012), 4; 465-485.</p>
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Leader of the following research projects	<p>[1] <i>Numerical and experimental investigation of mode-II rate-dependent delamination</i>, University of Rijeka, Initial support for young researchers (17.06.2.2.01), 2019</p> <p>[2] <i>Stability of multilayer composite columns with interlayer slip and uplift</i> (in Croatian), National Foundation for Science, Higher Education and Technological Development of the Republic of Croatia, Fellowships for Doctoral Students (03.01/59), 2009-2010</p>
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Participant in the following research projects	<p>[1] <i>Development of a shell finite element on the linked interpolation concept with application on layered structures</i>, Ministry of Science and Education of the Republic of Croatia and Research Agency of the Republic of Slovenia, bi-lateral project, 2020-2021</p> <p>[2] <i>Optimising Design for Inspection</i> (ODIN), COST Action CA18203, 2019-2023</p> <p>[3] <i>Assumed strain method in finite elements for layered plates and shells with application on layer delamination problem</i> (ASDEL), Croatian Science Foundation – Research Projects (IP-2016-06-4775), 2017-2021</p> <p>[4] <i>Modelling mixed-mode rate-dependent delamination in layered structures using geometrically nonlinear beam finite elements</i> (MOLAY-STRUDEL), MSCA-IF-2015-EF - Marie Skłodowska-Curie Individual Fellowships (IF-EF), Project ID: 701032, 2016-2018</p> <p>[5] <i>Configuration-dependent Approximation in Non-linear Finite-element Analysis of Structures</i> (CANFAS), Croatian Science Foundation – Research Projects (IP 11-2013-9068), 2014-2018</p> <p>[6] <i>Investigation of slender beam-like space structures with an accent to model validation</i> (in Croatian), University of Rijeka Research Support, 2014-2016</p> <p>[7] <i>Non-linear numerical modelling of 3D reinforced concrete frame structures subject to reinforcement corrosion</i>, Ministry of Science, Education and Sports of the Republic of Croatia and Research Agency of the Republic of Slovenia bi-lateral project, 2009-2010</p> <p>[8] <i>Improved accuracy in non-linear beam elements with finite 3D rotations</i>, Ministry of Science, Education and Sports of the Republic of Croatia (project No 114-0000000-3025), 2007-2009</p>
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Supervision of MSc theses	0
Supervision of PhD theses	1 (co-supervisor)
Examination of MSc theses	0
Examination of PhD theses	0