

CURRICULUM VITAE

Full name: **Hung Nguyen-Xuan**

Born in: 1975

A/Professor of Simulation Technology

Home page: <https://sites.google.com/site/nguyenxuanhungsite/>

<http://www.researcherid.com/rid/A-3817-2009>

<http://scholar.google.co.uk/citations?user=3iK9h-gAAAAJ&hl=en>

<http://www.scopus.com/authid/detail.uri?authorId=24503383800>



Citation Impact

Dr. Nguyen-Xuan was cited as a *Highly Cited Researcher* 2014, 2015, 2016, 2017 and 2018 of 1% in Computer Science (<http://hcr.stateofinnovation.com/>). Citation data can be found in Web of Science, and Google Scholar under "H. Nguyen-Xuan".

Google scholar

<u>Citation indices</u>	All	Since 2013
<u>Citations</u>	7988	6933
<u>h-index</u>	53	51
<u>i10-index</u>	110	110

ResearcherID Citations: 5902; *h-index*:47 <http://www.researcherid.com/rid/A-3817-2009>

Scopus: Citations: 6635; *h-index*:51 <http://www.scopus.com/authid/detail.uri?authorId=24503383800>

Current position

Director, CIRTech Institute, Hutech University, Ho Chi Minh City, Vietnam

E-mail: ngx.hung@hutech.edu.vn , h.nguyenxuan@gmail.com

Phone: (+84) (08) 54457777

Mobile: (+84) 0906682393

Education

2006 – 2008	Ph.D. in Engineering, University of Liège, Belgium
2001 – 2003	Master in Applied Sciences, University of Liège, Belgium
1996 –2000	Bachelor in Mathematics & Computer Science, University of Science, Vietnam National University HCM

Professional experience

Dec 2012 – date	Associate Professor, The State Council for Professor Title, Vietnam
Jul 2015 – date	Director, CIRTech Interdisciplinary Technology Institute, Hutech University
Sep 2014 – date	Visiting Professor, Sejong University, Seoul, Korea
Sep 2015 – date	Visiting Professor, China Medical University, Taichung, Taiwan
Apr 2014 – Jun 2015	Associate Professor, Department of Computational Engineering, Vietnamese-German University
Jul 2013 – Oct 2013	Visiting Professor, School of Engineering, Cardiff University, UK
Jan 2013 – May 2014	Associate Professor, School of Mathematics & Computer Science, University of Science, Vietnam National University HCMC
Oct 2004 – Dec 2012	Lecturer, Department of Mechanics, University of Science, VNU-HCMC
Apr 2011 – Sep 2011	Research Scholar, School of Aerospace Systems, Ohio, USA
Sep 2009 – Dec 2009	Visiting Researcher, Bauhaus-University Weimar, Germany
Sep 2008 – Jul 2009	Postdoctoral Fellow, Singapore-MIT Alliance, National University of Singapore

Research background and Interests

- Computational composite/smart materials (carbon nanotube-reinforced solid, piezoelectric, flexoelectricity)
- Computational plasticity
- Computational optimization and reliability
- Isogeometric analysis, SFEM, PFEM, XFEM
- Computational damage mechanics and image processing
- Multi-scale homogenization material computation
- Simulation in industrial multi-objects (SIMO)

- Simulation technology and 3D printing
- Engineering data analytics and applications
- Scientific methodology

Honors and Awards

2018 1% Highly Cited Researchers <https://feedback.hcr.clarivate.com/>
 2017 1% Highly Cited Researchers <https://hcr.clarivate.com/>
 2016 1% Highly Cited Researchers <https://hcr.clarivate.com/>
 2016 Georg Forster Research Award <https://www.humboldt-foundation.de/web/22857952.html>
 2015 Thompson Reuters Highly Cited Researchers <http://hcr.stateofinnovation.thomsonreuters.com/>
 2014 Thompson Reuters Highly Cited Researchers <http://hcr.stateofinnovation.thomsonreuters.com/>
 2008, 2009, 2010, 2011, 2012, 2013 Excellent researchers, Vietnam National University-HCMC
 2011 Nguyen Van Dao's award, Association of Mechanics of Vietnam

Professional services

Associate Editor: Computer Modeling in Engineering & Sciences (SCIE, Q2)
 Editorial boards: Biomedicine (ESCI) <http://biomedicine.cmu.edu.tw/>; Composite structures (SCE,Q1); Underground Spaces (ESCI, Elsevier), Computers, Materials & Continua (SCIE, Q3)
 Reviewer for the papers for more 50 ISI journals
 Former deputy Editor-in-Chief, Asia-Pacific Journal of Computational Engineering (Springer)
 Former subject editor, Mathematical Problems in Engineering
 Member of National Scientific Committee in Mechanics (NAFOSTED) <http://www.nafosted.gov.vn/>
 Member of the State Council for Professor Title in Mechanics
 Vice- President, Vietnam Association of Mechanics
 President, Vietnam Association of Computational Mechanics <http://www.vacom.org/>
 Keynote speakers of at least 10 domestic and international conferences

Editors

Proceedings of the International Conference on Advances in Computational Mechanics 2017, ISBN: 978-981-10-7149-2 (Springer) <http://www.springer.com/gp/book/9789811071485#aboutAuthors>
 IJCM special issue 2012 <http://www.worldscientific.com/doi/abs/10.1142/S0219876213020039?af=R>
 Proceedings of the International Conference on Advances in Computational Mechanics 2012, ISBN: 978-604-908-577-2.

Research project grants

2017 – 2019	03 Grants (~ 2bVND) from The National Foundation for Science and Technology Development (NAFOSTED) (Key member).
2017 – 2020	An innovative solution to protect Vietnamese coastal riverbanks from floods and erosion, Grant No.: TEAM2017SEL64, VLIR-UOS (300,000€) (<i>International cooperation between Belgium and Vietnam universities</i>) (Co-PI).
2017 – 2020	Environmentally best practices and optimisation in hydraulic fracturing for shale gas/oil development, Grant No.: 734370, Horizon 2020 (1,690,000€) (<i>Exchange project between EU and Vietnam universities</i>) (Co-PI).
2015 – 2017	Integration of modeling and simulation of laminated structures with size effects, Grant No.: 107.02-2014.24 (1.1bVND), The National Foundation for Science and Technology Development NAFOSTED (PI).
2013 – 2015	Integration of modeling and simulation of coupled multi-physics problems by isogeometric analysis. Grant No.: B2013-18-04 (400mVND), Key research, Vietnam National University HCM (PI).
2012 – 2014	Isogeometric analysis: Integration of modeling and simulation for mechanics problems. Grant No.: 107.02-2012.17(1.1bVND), The National Foundation for Science and Technology Development (NAFOSTED) (PI).
2010 – 2012	Development of two alternative finite element methods for solid mechanics problems, Grant No.

107.02-2010.05 (490mVND), The National Foundation for Science and Technology Development (NAFOSTED) (PI).

2010 – 2011

Development of smoothed finite element methods for plate structures, Grant No.: B2013-18-04, Basic research, Vietnam National University HCM (PI).

Industrial projects

Affiliated at CIRTech Institute

Supervisors

Current PhD students: 17

Current master students: 03

Former PhDs: 03

Former masters: 25

Publications (02 books, 02 edited books, 140 SCI/SCIE papers per 210 peer-reviewed articles/reports)

141. Khai N. Chau, Phuong Tran, H. Nguyen-Xuan, Multi-material topology optimization for additive manufacturing using polytree-based adaptive polygonal finite elements, *Automation in Construction*, 99, 79-90, 2019 (Q1). [Link](#)

140. Hien V. Do, H. Nguyen-Xuan, Computation of limit and shakedown loads for pressure vessel components using isogeometric analysis based on Lagrange extraction, *International Journal of Pressure Vessels and Piping*, in press, 2018 (Q2).

139. Hien V. Do, T. Lahmer, X. Zhuang, N. Alajlan, H. Nguyen-Xuan, T. Rabczuk, An isogeometric analysis to identify the full flexoelectric complex material properties based on electrical impedance curve, *Computers & Structures*, in press, 2018 (Q1).

138. Nam V. Nguyen, Hoang X. Nguyen, S. Lee, H. Nguyen-Xuan, Geometrically nonlinear polygonal finite element analysis of functionally graded porous plates, *Advances in Engineering Software*, in press, 2019 (Q1). [Link](#)

137. P. Phung-Van, Chien H. Thai, H. Nguyen-Xuan, M. Abdel-Wahab, Porosity-dependent nonlinear transient responses of functionally graded nanoplates using isogeometric analysis, *Composite Part B*, in press, 2019 (Q1). [Link](#)

136. Duc Thang Le, Dac-Khuong Bui, Tuan Duc Ngo, Quoc-Hung Nguyen, H. Nguyen-Xuan, A novel hybrid method combining electromagnetism-like mechanism and firefly algorithms for constrained design optimization of discrete truss structures, *Computers & Structures*, 212, 20-42, 2019 (Q1). [Link](#)

135. L. Leonetti, H. Nguyen-Xuan, A mixed edge-based smoothed solid-shell finite element method (MES-FEM) for laminated shell structures, *Composite Structures*, 2018, 168-179, 2019 (Q1). [Link](#)

134. Dung T. Tran, Chien H. Thai, H. Nguyen-Xuan, A size-dependent functionally graded higher order plate analysis based on modified couple stress theory and moving Kriging meshfree method, *Computers, Materials and Continua*, in press, Q2, 2018.

133. Chien H. Thai, A.M. J. Ferreira, T. Rabczuk, H. Nguyen-Xuan, Size-dependent analysis of FG-CNTRC microplates based on modified strain gradient elasticity theory, *European Journal of Mechanics-A/Solids*, 72, 521-538, 2018 (SCI, Q1). [Link](#)

132. P. Phung-Van, Cuong-Le Thanh, H. Nguyen-Xuan, M. Abdel-Wahab, Nonlinear transient isogeometric analysis of FG-CNTRC nanoplates in thermal environments, *Composite Structures*, 201, 882-892, 2018 (SCIE, Q1). [Link](#)

131. H. Nguyen-Xuan, Hien V. Do, Khanh N. Chau, An adaptive strategy based on conforming quadtree meshes for kinematic limit analysis, *Computer Methods in Applied Mechanics and Engineering*, 341, 485-516, 2018 (SCI, Q1). [Link](#)

130. Truong H. Vu, P. Phung-Van, H. Nguyen-Xuan, M. Abdel-Wahab, A polytree-based adaptive polygonal finite element method for topology optimization of fluid-submerged breakwater interaction, *Computers and Mathematics with Applications*, 76, 1198-1218, 2018 (SCI, Q1). [Link](#)

129. Tan N. Nguyen, Chien H. Thai, H. Nguyen-Xuan, J. Lee, NURBS-based analyses of functionally graded carbon nanotube-reinforced composite shells, 203, 349-360, 2018 (SCIE, Q1). [Link](#)

128. Dac-Khuong Bui, Tuan Nguyen, Jui-Sheng Chou, H. Nguyen-Xuan, Tuan Ngo, A modified firefly algorithm-artificial neural network expert system for predicting compressive and tensile strength of high-performance concrete, *Construction & Building Materials*, 180, 320-333, 2018 (SCI, Q1).

127. V. M. Nguyen-Thanh, X. Zhuang, H. Nguyen-Xuan, T. Rabczuk, P. Wriggers, A Virtual Element Method for 2D linear elastic fracture analysis, *Computer Methods in Applied Mechanics and Engineering*, 340, 366-395, 2018 (SCI, Q1). [Link](#)

126. G.D. Huynh, X. Zhuang, H. Nguyen-Xuan, Implementation aspects of a phase-field approach for brittle fracture, *Frontiers of Structural and Civil Engineering*, in press, 2018 (SCIE, Q1).

125. Chien H. Thai, A.M. J. Ferreira, J. Lee, H. Nguyen-Xuan, An efficient size-dependent computational approach for FG isotropic and sandwich microplates based on modified couple stress theory and moving Kriging-based meshfree method, *International Journal of*

124. Tan N. Nguyen, Chien H. Thai, H. Nguyen-Xuan, J. Lee, Geometrically nonlinear analysis of FGM plates using an improving moving Kriging interpolation meshfree method based on a refined plate theory, *Composite Structures*, 193, 268-290, 2018 (SCIE, Q1). [Link](#)
123. Chien H. Thai, A.M. J. Ferreira, M. Abdel Wahab, H. Nguyen-Xuan, A moving Kriging interpolation meshfree method based on naturally stabilized nodal integration for analysis of isotropic and sandwich FG plates, *Acta Mechanica*, 229, 2997-3023, 2018 (SCI, Q1). [Link](#)
122. Chien H. Thai, A.M. J. Ferreira, H. Nguyen-Xuan, Isogeometric analysis of size-dependent isotropic and sandwich FG microplates based on modified strain gradient elasticity theory, *Composite Structures*, 192, 274-288, 2018 (SCIE, Q1). [Link](#)
121. Chien H. Thai, H. Nguyen-Xuan, A moving Kriging interpolation meshfree method based on naturally stabilized nodal integration scheme for plate analysis, *International Journal of Computational Methods*, in press, 2018 (SCIE, Q1)
120. Chien H. Thai, M. Abdel Wahab, H. Nguyen-Xuan, A layerwise C0-type higher order shear deformation theory for laminated composite and sandwich plates, *Comptes Rendus Mecanique*, 346, 57-76, 2018 (SCI, Q2).
119. Chien H. Thai, A.M. J. Ferreira, T. Rabczuk, H. Nguyen-Xuan, A naturally stabilized nodal integration meshfree formulation for carbon nanotube-reinforced composite plate analysis, *Engineering Analysis with Boundary Elements*, 92, 136-155, 2018 (SCI, Q1). [Link](#)
118. Cuong-Le Thanh, P. Phung-Van, Chien H. Thai, H. Nguyen-Xuan, M. Abdel Wahab, Isogeometric analysis of functionally graded carbon nanotube reinforced composite nanoplates using modified couple stress theory, *Composite Structures*, 184, 633-649, 2018 (SCIE, Q1). [Link](#)
117. Son Thai, Huu-Tai Thai, Thuc P. Vo, H. Nguyen-Xuan, Nonlinear static and transient isogeometric analysis of functionally graded microplates based on the modified strain gradient theory, *Engineering Structures*, 153, 598-612, 2017 (SCI, Q1). [Link](#)
116. Nam V. Nguyen, Hoang X. Nguyen, Duc-Huynh Phan, H. Nguyen-Xuan, A polygonal finite element method for laminated composite plates, *International Journal of Mechanical Sciences*, 113, 863-882, 2017 (SCI, Q1). [Link](#)
115. Khai N. Chau, Khanh N. Chau, Tuan D Ngo, K. Hackl, H. Nguyen-Xuan, A polytree-based adaptive polygonal finite element method for multi-material topology optimization, *Computer Methods in Applied Mechanics and Engineering*, 332, 712-739, 2018 (SCI, Q1). [Link](#)
114. Tuan N. Nguyen, Tuan D Ngo, H. Nguyen-Xuan, A novel three-variable shear deformation plate formulation: Theory and isogeometric implementation, *Computer Methods in Applied Mechanics and Engineering*, 326, 376-401, 2017 (SCI, Q1). [Link](#)
113. H.X. Nguyen, Elena Atroshchenko, H. Nguyen-Xuan, P. Vo, Geometrically nonlinear isogeometric analysis of FG microplates with the modified couple stress theory, *Computers and Structures*, 193, 110-127, 2017 (SCI, Q1). [Link](#)
112. Chien H. Thai, A.M. J. Ferreira, H. Nguyen-Xuan, Naturally stabilized nodal integration meshfree formulations for analysis of laminated composite and sandwich plates, *Composite Structures*, 178, 260-276, 2017 (SCIE, Q1). [Link](#)
111. H. Nguyen-Xuan, A polygonal finite element method for plate analysis, *Computers and Structures*, 188, 45-62, 2017 (SCI, Q1). [Link](#)
110. P. Phung-Van, A.M. J. Ferreira, H. Nguyen-Xuan, M. Abdel-Wahab, An isogeometric approach for size-dependent geometrically nonlinear transient analysis of functionally graded nanoplates, *Composite B*, 118, 125-134, 2017 (SCI, Q1). [Link](#)
109. Thanh Chau-Dinh, Quang Nguyen-Duy, H. Nguyen-Xuan, Improvement on MITC3 plate finite element using edge-based strain smoothing enhancement for plate analysis, *Acta Mechanica*, 228, 2141-2163, 2017 (SCI, Q1). [Link](#)
108. H.X. Nguyen, Ta Duy Hien, J. Lee, H. Nguyen-Xuan, Stochastic buckling behaviour of laminated composite plate structures with uncertain material properties, *Aerospace Science and Technology*, 64, 274-283, 2017 (SCI, Q1). [Link](#)
107. P. Phung-Van, Q. Lieu-Xuan, H. Nguyen-Xuan, M. Abdel-Wahab, Size-dependent isogeometric analysis of functionally graded

carbon nanotube-reinforced composite nanoplates, *Composite Structures*, 166, 120-135, 2017 (SCIE, Q1). [Link](#)

106. Hien V. Do, H. Nguyen-Xuan, Limit and shakedown isogeometric analysis of structures based on Bezier extraction, *European Journal of Mechanics- A/Solids*, 63, 149-164, 2017 (SCI, Q1). [Link](#)

105. N. Nguyen-Thanh, K. Zhou, X. Zhuang, P. Areias, H. Nguyen-Xuan, Y. Bazilevs, T. Rabczuk, Isogeometric analysis of large-deformation thin shells using PHT-splines for multiple-patch coupling, *Computer Methods in Applied Mechanics and Engineering*, 316, 1157-1178, 2017 (SCI, Q1). [Link](#)

104. L. Leonetti, G. Garcea, H. Nguyen-Xuan, A mixed node-based smoothed finite element method (MNS-FEM) for elasticity, *Engineering with Computers*, in press, 2017 (SCIE, Q1). [Link](#)

103. H. Nguyen-Xuan, A polytree-based adaptive polygonal finite element method for topology optimization, *International Journal for Numerical Methods in Engineering*, 110, 972-1000, 2017 (SCI, Q1). [Link](#)

102. H.X. Nguyen, Tuan N. Nguyen, S.P.A. Bordas, M. Abdel-Wahab, H. Nguyen-Xuan, P. Vo, A refined quasi-3D isogeometric analysis for FGM microplates based on the modified couple stress theory, *Computer Methods in Applied Mechanics and Engineering*, 313, 904-940, 2017 (SCI, Q1). [Link](#)

101. T. Le-Manh, Q. Huynh-Van, Thu D. Phan, Huan D. Phan, H. Nguyen-Xuan, Isogeometric nonlinear bending and buckling analysis of variable-thickness composite plate structures, *Composite Structures*, 159, 818-826, 2017 (SCIE, Q1). [Link](#)

100. H. Nguyen-Xuan, S. Nguyen-Hoang, T. Rabczuk, K. Hackl, A polytree-based adaptive approach to limit analysis of cracked structures, *Computer Methods in Applied Mechanics and Engineering*, 313, 1006-1039, 2017 (SCI, Q1). [Link](#)

99. P. Phung-Van, Loc V. Tran, A.M. J. Ferreira, H. Nguyen-Xuan, M. Abdel-Wahab, Nonlinear transient isogeometric analysis of smart piezoelectric functionally graded material plates based on generalized shear deformation theory under thermo-electro-mechanical loads, *Nonlinear Dynamics*, 87, 879-894, 2017 (SCI, Q1). [Link](#)

98. Trung-Kien Nguyen, Van-Hau Nguyen, Thanh Chau-Dinh, Thuc P. Vo, H. Nguyen-Xuan, Static and vibration analysis of isotropic and functionally graded sandwich plates using an edge-based MITC3 finite elements, *Composite: Part B*, 107, 162-173, 2016 (SCI, Q1). [Link](#)

97. H.H. Phan-Dao, Chien H. Thai, J. Lee, H. Nguyen-Xuan, Analysis of laminated composite and sandwich plate structures using generalized layer wise HSDT and improved mesh free radial point interpolation method, *Aerospace Science and Technology*, 58, 641-660, 2016 (SCI, Q1). [Link](#)

96. Chien H. Thai, Tan N. Nguyen, T. Rabczuk, H. Nguyen-Xuan, An improved moving Kriging meshfree method for plate analysis using a refined plate theory, *Computers and Structures*, 176, 34-49, 2016 (SCI, Q1). [Link](#)

95. Tan N. Nguyen, Chien H. Thai, H. Nguyen-Xuan, A novel computational approach for functionally graded isotropic and sandwich plate structures based on a rotation-free meshfree method, *Thin-Walled Structures*, 107, 473-488, 2016 (SCIE, Q1). [Link](#)

94. L. Leonetti, G. Garcea, H. Nguyen-Xuan, A mixed edge-based smoothed finite element method, *Computers and Structures*, 173, 123-138, 2016 (SCI, Q1). [Link](#)

93. H. Nguyen-Xuan, C.T. Wu, G.R. Liu, An adaptive selective ES-FEM for plastic collapse analysis, *European Journal of Mechanics- A/Solids*, 58, 278-290, 2016 (SCI, Q1). [Link](#)

92. Tuan N. Nguyen, Chien H. Thai, H. Nguyen-Xuan, On the general framework of high order shear deformation theories for laminated composite plate structures: A novel unified approach, *International Journal of Mechanical Sciences*, 110, 242-255, 2016 (SCI, Q1). [Link](#)

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91. Chien H. Thai, Vuong N.V. Do, H. Nguyen-Xuan, An improved moving Kriging-based meshfree method for static, dynamic and buckling analyses of functionally graded isotropic and sandwich plates, *Engineering Analysis with Boundary Elements*, 64, 122-136, 2016 (SCI, Q1). [Link](#)
90. Loc V. Tran, P. Phung-Van, J. Lee, M. Abdel-Wahab, H. Nguyen-Xuan, Isogeometric analysis for nonlinear thermomechanical stability of functionally graded plates, *Composite Structures*, 140, 655-667, 2016 (SCIE, Q1). [Link](#)
89. Chien H. Thai, A.M. J. Ferreira, M. Abdel-Wahab, H. Nguyen-Xuan, A generalized layerwise higher-order shear deformation theory for laminated composite and sandwich plates based on isogeometric analysis, *Acta Mechanica*, 227, 1225-1250, 2016 (SCI, Q1). [Link](#)
88. Chien H. Thai, A.M. Zenkour, M. Abdel-Wahab, H. Nguyen-Xuan, A simple four-unknown shear and normal deformations theory for FG isotropic and sandwich plates based on isogeometric analysis, *Composite Structures*, 139, 77-95, 2016 (SCIE, Q1). [Link](#)
87. Lieu B. Nguyen, Chien H. Thai, H. Nguyen-Xuan, A generalized unconstrained theory and isogeometric finite element analysis based on Bezier extraction for laminated composite plates, *Engineering with Computers*, 32, 457-475, 2016 (SCIE, Q1). [Link](#)
86. Tuan N. Nguyen, D. Hui, J. Lee, H. Nguyen-Xuan, An efficient computational approach for size-dependent analysis of functionally graded nanoplates, *Computer Methods in Applied Mechanics and Engineering*, 297, 191-218, 2015 (SCI, Q1). [Link](#)
85. Thanh Hai Ong, Thi Thao Phuong Hoang, S.P.A. Bordas, H. Nguyen-Xuan, A staggered cell-centered finite element method for compressible and nearly-incompressible linear elasticity on general meshes, *SIAM Journal on Numerical Analysis*, 53 (4), 2051-2073, 2015 (SCI, Q1). [Link](#)
84. P. Phung-Van, Lieu B. Nguyen, Loc V. Tran, Dung T. Dinh, Chien H. Thai, S.P.A. Bordas, M. Abdel-Wahab, H. Nguyen-Xuan, An efficient computational approach for control of nonlinear transient responses of smart piezoelectric composite plates, *International Journal of Nonlinear Mechanics*, 76, 190-202, 2015 (SCI, Q1). [Link](#)
83. Khuong D. Nguyen, H. Nguyen-Xuan, An isogeometric finite element approach for three-dimensional static and dynamic analysis of FGM plates structures, *Composite Structures*, 132, 423-439, 2015 (SCIE, Q1). [Link](#)
82. Loc V. Tran, Hung Anh Ly, J. Lee, M. Abdel-Wahab, H. Nguyen-Xuan, Vibration analysis of cracked FGM plates using higher-order shear deformation theory and extended isogeometric approach, *International Journal of Mechanical Sciences*, 96, 65-78, 2015 (SCI, Q1). [Link](#)
81. H. Nguyen-Xuan, T. Rabczuk, An adaptive selective ES-FEM limit analysis of cracked plane-strain structures, *Frontiers of Structural and Civil Engineering*, 9, 478-490, 2015 (ESCI, Q2). [Link](#)
80. Loc V. Tran, J. Lee, H. Nguyen-Van, H. Nguyen-Xuan, M. Abdel-Wahab, Geometrically nonlinear isogeometric analysis of laminated composite plates based on higher-order shear deformation theory, *International Journal of Nonlinear Mechanics*, 72, 42-52, 2015 (SCI, Q1). [Link](#)
79. P. Phung-Van, M. Abdel-Wahab, K.M. Liew, S.P.A. Bordas, H. Nguyen-Xuan, Isogeometric analysis of functionally graded carbon nanotube-reinforced composite plates using higher-order shear deformation theory, *Composite Structures*, 123, 137-149, 2015 (SCIE, Q1). [Link](#)
78. H. Nguyen-Xuan, G.R. Liu, An edge-based finite element method (ES-FEM) with adaptive scaled-bubble functions for plane strain limit analysis, *Computer Methods in Applied Mechanics and Engineering*, 285, 877-905, 2015 (SCI, Q1). [Link](#)
77. Thanh Hai Ong, Claire E. Heaney, Chang-Kye Lee, G.R. Liu, H. Nguyen-Xuan, On stability, convergence and accuracy of bES-FEM and bFS-FEM for nearly incompressible elasticity, *Computer Methods in Applied Mechanics and Engineering*, 285, 315-345, 2015 (SCI, Q1). [Link](#)
76. Chien H. Thai, H. Nguyen-Xuan, S. Bordas, N. Nguyen-Thanh, T. Rabczuk, Isogeometric analysis of laminated composite plates using the higher-order shear deformation theory, *Mechanics of Advanced Materials and Structures*, 22(6), 2015 (SCIE, Q2). [Link](#)
75. N. Nguyen-Thanh, N. Valizadeh, M.N. Nguyen, H. Nguyen-Xuan, X. Zhuang, P. Areias, G. Zi, Y. Bazilevs, L. De Lorenzis, T. Rabczuk, An extended isogeometric thin shell analysis based on Kirchhoff-Love theory, *Computer Methods in Applied Mechanics and Engineering*, 284, 265-291, 2015 (SCI, Q1). [Link](#)
74. Loc V. Tran, T. Nguyen-Thoi, Chien H. Thai, H. Nguyen-Xuan, An edge-based smoothed discrete shear gap method (ES-DSG) using the C0-type higher-order shear deformation theory for analysis of laminated composite plates, *Mechanics of Advanced Materials and Structures*, 22 (4), 248-268, 2015 (SCIE, Q2). [Link](#)
73. P. Phung-Van, L. De Lorenzis, Chien H. Thai, M. Abdel-Wahab, H. Nguyen-Xuan, Analysis of laminated composite plates integrated with piezoelectric sensors and actuators using higher-order shear deformation theory and isogeometric finite elements,

72. T. Nguyen-Thoi, T. Bui-Xuan, P. Phung-Van, S. Nguyen-Hoang, H. Nguyen-Xuan, An edge-based smoothed three-node mindlin plate element (ES-MIN3) for static and free vibration analyses of plates, *KSCE Journal of Civil Engineering*, 18 (2), 1072-1082, 2014 (SCIE, Q3). [Link](#)
71. H. Nguyen-Xuan, Loc V. Tran, Chien H. Thai, C.V. Le, Plastic collapse analysis of cracked structures using extended isogeometric elements and second-order cone programming, *Theoretical and Applied Fracture Mechanics*, 72, 13-27, 2014 (SCIE, Q2). [Link](#)
70. Loc V. Tran, Chien H. Thai, H.T. Le, Buntara S. Gan, J. Lee, H. Nguyen-Xuan, Isogeometric analysis of laminated composite plates based on a four-variable refined plate theory, *Engineering Analysis with Boundary Elements*, 47, 68-81, 2014 (SCI, Q1). [Link](#)
69. P. Phung-Van, Chien H. Thai, T. Nguyen-Thoi, H. Nguyen-Xuan, Static and free vibration analyses of composite and sandwich plates by an edge-based smoothed discrete shear gap method (ES-DSG3) using triangular elements based on layerwise theory, *Composite Part B*, 60, 227-238, 2014 (SCI, Q1). [Link](#)
68. P. Phung-Van, H. Luong-Van, T. Nguyen-Thoi, H. Nguyen-Xuan, A cell-based smoothed discrete shear gap method (CS-FEM-DSG3) based on the C0-type higher-order shear deformation theory for dynamic responses of Mindlin plates on viscoelastic foundations subjected to a moving sprung vehicle, *International Journal for Numerical Methods in Engineering*, 98, 988-1014, 2014 (SCI, Q1). [Link](#)
67. P. Phung-Van, T. Nguyen-Thoi, H. Luong-Van, C. Thai-Hoang, H. Nguyen-Xuan, A cell-based smoothed discrete shear gap method (CS-FEM-DSG3) using layerwise deformation theory for dynamic response of composite plates resting on viscoelastic foundation, *Computer Methods in Applied Mechanics and Engineering*, 272, 138-159, 2014 (SCI, Q1). [Link](#)
66. T.D. Tran, C.V. Le, D.C. Pham, H. Nguyen-Xuan, Shakedown reduced kinematic formulation, separated collapse modes, and numerical implementation, *International Journal of Solids and Structures*, 51, 2893–2899, 2014 (SCI, Q1). [Link](#)
65. L. Chen, N. Nguyen-Thanh, H. Nguyen-Xuan, T. Rabczuk, S.P.A. Bordas, G. Limbert, Explicit finite deformation analysis of isogeometric membranes, *Computer Methods in Applied Mechanics and Engineering*, 277, 104-130, 2014 (SCI, Q1). [Link](#)
64. Chien H. Thai, S. Kulasegaram, Loc V. Tran, H. Nguyen-Xuan, Generalized shear deformation theory for functionally graded isotropic and sandwich plates based on isogeometric approach, *Computers & Structures*, 141, 94-112, 2014 (SCI, Q1). [Link](#)
62. H. Nguyen-Xuan, Loc V. Tran, Chien H. Thai, S. Kulasegaram, S.P.A. Bordas, Isogeometric analysis of functionally graded plates using a refined plate theory, *Composite Part B*, 64, 222–234, 2014 (SCI, Q1). [Link](#)
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References

1/ **Prof. Nguyen Dang Hung**

University of Liege, Belgium

E-mail: h.nguyendang@ulg.ac.be

2/ Prof. J.F. Debongnie

University of Liege, Belgium

E-mail: jf.debongnie@ulg.ac.be

3/ Prof. Gui-Rong Liu

Department of Aerospace Engineering and Engineering Mechanics, University of Cincinnati, 2851 Woodside Dr, Cincinnati, OH 45221, USA

Editor-in-Chief, International Journal of Computational Methods <http://www.worldscientific.com/worldscinet/ijcm>

E-mail: liugr@ucmail.uc.edu

4/ Prof. Dr.-Ing Timon Rabczuk

Institute of Structural Mechanics, Bauhaus-University Weimar, Marienstrasse 15, 99423 Weimar, Germany

E-mail: timon.rabczuk@uni-weimar.de

5/ Prof. Nguyen Thoi Trung

Ton Duc Thang University, Vietnam

E-mail: nguyenthotrung@tdt.edu.vn

6/ Prof. António J.M. Ferreira

Departamento de Engenharia Mecânica, Faculdade de Engenharia, Universidade do Porto, Rua Dr. Roberto Frias, 4200-465 Porto, Portugal

Editor-in-Chief, Composite Structures <https://www.journals.elsevier.com/composite-structures>

E-mail: ferreira@fe.up.pt

7/ Prof. Stephane Bordas

University of Luxembourg

E-mail: stephane.bordas@uni.lu