CURRICULUM VITAE

1. Personal detail

Name : Phuc Phung-Van (P. Phung-Van)

Nationality : Vietnamese

Day of birth : March 28th, 1986

Place of birth : Kien Giang, Vietnam

Email address : phucphungvan@gmail.com; pv.phuc86@hutech.edu.vn

2. Citation indices

Google Scholar: https://scholar.google.com.vn/citations?user=fOPiziAAAAAJ&hl=en

Citations: 4172, h-index: 39 (updated on 03/12/2023)

Scopus: https://www.scopus.com/authid/detail.uri?authorId=55181714100#

Citations: 3684, h-index: 38 (updated on 03/12/2023)

3. Employment history

09/2019 – now : researcher and lecturer at Ho Chi Minh City University of Technology (HUTECH), Vietnam

10/2016 – 09/2019 : researcher at Ghent University, Belgium

09/2013 – 04/2016 : Ph.D. research fellow at Ghent University, Belgium

04/2012 – 08/2013 : researcher and lecturer at Division of Computational Mechanics, Ton Duc Thang University, Vietnam

06/2009 – 03/2012 : lecturer at Department of Civil Engineering of Nguyen Tat Thanh University, Vietnam

4. Education

09/2013 – 04/2016 : Ph.D. in Electromechanical Engineering, Ghent University, Belgium

08/2009 – 03/2011 : Master of Engineering Mechanics, Ho Chi Minh City University of Technology and Education, Vietnam

10/2004 – 03/2009 : Bachelor of Engineering in Mechanical Engineering. Ho Chi Minh City University of Technology and Education, Vietnam

5. Research interests

- Numerical methods (FEM, S-FEM, IGA) for 2D, 3D structures, plates, shells, nanocomposites, nanostructures.
- Composites, functionally graded materials (FGMs), piezoelectric, carbon nanotubes (CNTs), shape memory alloys, graphene nanoplatelets, porous materials.
- Multi-physic environments, thermal dynamics, nonlinear transient responses.

6. Research projects

- Principal Investigator: "Computational optimization of porous nanostructures". National Foundation for Science and Technology Development (NAFOSTED). Project No.: 107.02-2019.09. (Result: Good).
- Principal Investigator: "Multiscale isogeometric analysis of shape memory materials". Special Research Fund Ghent University (BOF). Project No.: BOF.PD0.2016.0016.01. (Result: Good).
- Key researcher: "Development of smoothed finite element methods for computation and optimization of some problems in the multi-physics environments". National Foundation for Science and Technology Development (NAFOSTED), 2012 – 2014. Project No.: 107.02-2012.05. (Result: Good)
- Key researcher: "Research and development of the smoothed finite element methods for modeling and simulating the interaction problems in the multi-physics environments". NAFOSTED, 2010 – 2012. Project No.: 107.02.2010.01. (Result: Good)
- Principal Investigator: "Development of the smoothed finite element methods for simulating the fluid – solid interaction problems". Nguyen Tat Thanh University, 2010-2012. Project No.: 2011-KTXD-02. (Result: Good)

7. Publication list

Books/ Editors

[1] Nguyen-Xuan Hung, **Phung-Van Phuc**, Timon Rabczuk. Proceedings of the International Conference on Advances in Computational Mechanics 2017. Lecture Notes in Mechanical Engineering, Springer Singapore, 2018.
http://www.springer.com/br/book/9789811071485

ISI papers (listed in Web of Science)

[64] PT. Hung, CH. Thai, **P. Phung-Van**. Isogeometric bending and free vibration analyses of carbon nanotube-reinforced magneto-electric-elastic microplates using a four variable refined plate theory. Computers & Structures 2023; 287, 107121 (Q1, IF: 4.7)

https://www.sciencedirect.com/science/article/pii/S0045794923001517

[63] PT. Hung, CH. Thai, **P. Phung-Van**. A C0-HSDT free vibration of magneto-electro-elastic functionally graded porous plates using a moving Kriging meshfree method. Aerospace Science and Technology 2023; 137, 108266 (Q1, IF: 5.457)
https://www.sciencedirect.com/science/article/pii/S1270963823001633

[62] PT. Hung, **P. Phung-Van**, CH. Thai. Small scale thermal analysis of piezoelectric–piezomagnetic FG microplates using modified strain gradient theory. International Journal of Mechanics and Materials in Design 2023; 1-23 (Q2, IF: 3.561)
https://link.springer.com/article/10.1007/s10999-023-09651-y

[61] LB. Nguyen, H. Nguyen-Xuan, CH. Thai, **P. Phung-Van**. A size-dependent effect of smart functionally graded piezoelectric porous nanoscale plates. International Journal of Mechanics and Materials in Design 2023; 1-14 (Q2, IF: 3.561)
https://link.springer.com/article/10.1007/s10999-023-09660-x

[60] CH. Thai, AMJ. Fereira, H. Nguyen-Xuan, PT. Hung, **P. Phung-Van**. A nonlocal strain gradient isogeometric model for free vibration analysis of magneto-electro-elastic functionally graded nanoplates. Composite Structures 2023; 316, 117005 (Q1, IF: 6.603)
https://www.sciencedirect.com/science/article/abs/pii/S0263822323003495

[59] NV. Nguyen, KQ. Tran, **P. Phung-Van**, J. Lee, H. Nguyen-Xuan. An isogeometric analysis of functionally graded triply periodic minimal surface microplates. Aerospace Science and Technology 2023; 137, 108270 (Q1, IF: 5.457)
https://www.sciencedirect.com/science/article/abs/pii/S1270963823001670

[58] **P. Phung-Van**, Chien H. Thai. A novel size-dependent nonlocal strain gradient isogeometric model for functionally graded carbon nanotube-reinforced composite nanoplates. Engineering with Computers 2022; (Q1, IF: 7.555)
https://link.springer.com/article/10.1007/s00366-021-01353-3

[57] Chien H. Thai, H. Nguyen-Xuan, **P. Phung-Van**. Nonlocal strain gradient analysis of FG GPLRC nanoscale plates based on isogeometric approach. Engineering with Computers 2022; (Q1, IF: 7.555)
https://link.springer.com/article/10.1007/s00366-022-01689-4

[56] PT Hung, Chien H. Thai, **P. Phung-Van**. NURBS-based refined plate theory for metal foam plates with porosities. Thin-Walled Structures 2022; 175:109246 (Q1, IF: 5.881)
https://www.sciencedirect.com/science/article/pii/S0263823122001975

[55] PT Hung, Chien H. Thai, **P. Phung-Van**. A refined isogeometric plate analysis of porous metal foam microplates using modified strain gradient theory. Composite Structures 2022; 289:115467 (Q1, IF: 7.963)
https://www.sciencedirect.com/science/article/pii/S0263822322002604

[54] Chien H. Thai, H. Nguyen-Xuan, **P. Phung-Van**. A size-dependent isogeometric analysis of laminated composite plates based on the nonlocal strain gradient theory. Engineering with Computers 2022; (Q1, IF: 7.963)
https://link.springer.com/article/10.1007/s00366-021-01559-5

[53] **P. Phung-Van**, Chien H. Thai. A novel size-dependent nonlocal strain gradient isogeometric model for functionally graded carbon nanotube-reinforced composite nanoplates. Engineering with Computers 2021; (Q1, IF: 7.963)
https://link.springer.com/article/10.1007/s00366-021-01353-3

[52] **P. Phung-Van**, AJM. Ferreira, H. Nguyen-Xuan, Chien H. Thai. Scale-dependent nonlocal strain gradient isogeometric analysis of metal foam nanoscale plates with various porosity distributions. Composite Structures 2021; 268:113949 (Q1, IF: 5.407)
https://www.sciencedirect.com/science/article/abs/pii/S0263822321004098

[51] **P. Phung-Van**, QX. Lieu, AJM. Ferreira, Chien H. Thai. A refined nonlocal isogeometric model for multilayer functionally graded graphene platelet-reinforced composite nanoplates. Thin-Walled Structures 2021; 164:107862 (Q1, IF: 4.442)
https://www.sciencedirect.com/science/article/abs/pii/S0263823121002664

[50] CH. Thai, AJM. Ferreira, H. Nguyen-Xuan, **P. Phung-Van**. A size dependent meshfree model for functionally graded plates based on the nonlocal strain gradient theory. Composite Structures 2021; 272:114169 (Q1, IF: 5.138)
https://www.sciencedirect.com/science/article/abs/pii/S0263822321006310

[49] CH. Thai, AJM. Ferreira, H. Nguyen-Xuan, LB. Nguyen, **P. Phung-Van**. A nonlocal strain gradient analysis of laminated composites and sandwich nanoplates using meshfree approach. Engineering with Computers 2021 (Q1, IF: 7.963)
https://link.springer.com/article/10.1007/s00366-021-01501-9

[48] **P. Phung-Van**, AJM. Ferreira, H. Nguyen-Xuan, CH. Thai. A nonlocal strain gradient isogeometric nonlinear analysis of nanoporous metal foam plates. Engineering Analysis with Boundary Elements 2021; 130:58-68 (Q1, IF: 2.964)
https://www.sciencedirect.com/science/article/abs/pii/S0955799721001314

[47] CH. Thai, H. Nguyen-Xuan, LB. Nguyen, **P. Phung-Van**. A modified strain gradient meshfree approach for functionally graded microplates. Engineering with Computers 2021 (Q1, IF: 7.963)

https://link.springer.com/article/10.1007/s00366-021-01493-6

[46] CH. Thai, LB. Nguyen, H. Nguyen-Xuan, **P. Phung-Van**. Size-dependent nonlocal strain gradient modeling of hexagonal beryllium crystal nanoplates. International Journal of Mechanics and Materials in Design 2021; 1-15 (Q1, IF: 4.011)
https://link.springer.com/article/10.1007/s10999-021-09561-x

[45] **P. Phung-Van**, AJM. Ferreira, Chien H. Thai. Computational optimization for porosity-dependent isogeometric analysis of functionally graded sandwich nanoplates. Composite Structures 2020; 239:112029 (Q1, IF: 4.829)
https://www.sciencedirect.com/science/article/pii/S0263822319339650

[44] Chien H. Thai, AJM. Ferreira, **P. Phung-Van**. A nonlocal strain gradient isogeometric model for free vibration and bending analyses of functionally graded plates. Composite Structures 2020; 251:112634 (Q1, IF: 4.829)
https://www.sciencedirect.com/science/article/pii/S026382232030934X

[43] **P. Phung-Van**, Chien H. Thai, M. Abdel-Wahab, H. Nguyen-Xuan. Optimal design of FG sandwich nanoplates using size-dependent isogeometric analysis. Mechanics of Materials 2020; 143:103277 (Q1, IF: 2.958)
https://www.sciencedirect.com/science/article/pii/S0167663619305320

[42] CH Thai, AJM. Ferreira, **P Phung-Van**. Free vibration analysis of functionally graded anisotropic microplates using modified strain gradient theory. Engineering Analysis with Boundary Elements 2020; 117:284-298 (Q1, IF: 2.243)
https://www.sciencedirect.com/science/article/pii/S0955799720301272

[41] CH Thai, **P Phung-Van**. A meshfree approach using naturally stabilized nodal integration for multilayer FG GPLRC complicated plate structures. Engineering Analysis with Boundary Elements 2020; 117:346-358 (Q1, IF: 2.243)
https://www.sciencedirect.com/science/article/pii/S0955799720301028

[40] CH Thai, TD Tran, **P Phung-Van**. A size-dependent moving Kriging meshfree model for deformation and free vibration analysis of functionally graded carbon nanotube-reinforced composite nanoplates. Engineering Analysis with Boundary Elements 2020; 115:52-63 (Q1, IF: 2.243)
https://www.sciencedirect.com/science/article/pii/S0955799720300461

[39] Chien H. Thai, AJM. Ferreira, TD. Tran, **P. Phung-Van**. A size-dependent quasi-3D isogeometric model for functionally graded graphene platelet-reinforced composite microplates based on the modified couple stress theory. Composite Structures 2020; 234: 111695 (Q1, IF: 4.823)

https://www.sciencedirect.com/science/article/pii/S0263822319330661

[38] **P. Phung-Van**, Chien H. Thai, AJM. Ferreira, T. Rabczuk. Isogeometric nonlinear transient analysis of porous FGM plates subjected to hygro-thermo-mechanical loads. Thin-Walled Structures 2020; 148: 106497 (Q1, IF: 3.488)
https://www.sciencedirect.com/science/article/pii/S0263823119302757

[37] **P. Phung-Van**, Chien H. Thai, H. Nguyen-Xuan, M. Abdel-Wahab. Porosity-dependent nonlinear transient responses of functionally graded nanoplates using isogeometric analysis. Composites Part B: Engineering 2019; 164:215-225 (Q1, IF: 6.864)
https://www.sciencedirect.com/science/article/pii/S1359836818324132

[36] **P. Phung-Van**, CH. Thai, H. Nguyen-Xuan, M. Abdel-Wahab. An isogeometric approach of static and free vibration analyses for porous FG nanoplates. European Journal of Mechanics-A/Solids 2019; 78: 103851 (Q1, IF: 2.931)
https://www.sciencedirect.com/science/article/pii/S0997753818306296

[35] CH. Thai, AJM. Ferreira, **P. Phung-Van**. Size dependent free vibration analysis of multilayer functionally graded GPLRC microplates based on modified strain gradient theory. Composites Part B: Engineering 2019; 169:174-188 (Q1, IF: 6.864)
https://www.sciencedirect.com/science/article/pii/S1359836818342203

[34] CH. Thai, AJM. Ferreira, TD. Tran, **P. Phung-Van**. Free vibration, buckling and bending analyses of multilayer functionally graded graphene nanoplatelets reinforced composite plates using the NURBS formulation. Composite Structures 2019; 220:749-759 (Q1, IF: 4.829)
https://www.sciencedirect.com/science/article/pii/S0263822318347135

[33] H. Nguyen-Ngoc, **P. Phung-Van**, BL. Dang, H. Nguyen-Xuan, MA Wahab. Static and dynamic analyses of three-dimensional hollow concrete block revetments using polyhedral finite element method. Applied Ocean Research 2019; 88:15-28 (Q1, IF: 2.436)
https://www.sciencedirect.com/science/article/pii/S0141118718306989

[32] **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 2018; 201:882-892 (Q1, IF: 4.829)
https://www.sciencedirect.com/science/article/pii/S026382231830936X

[31] T. Vu-Huu, **P. Phung-Van**, Chien H. Thai, 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 2018; 76(5):1198-1218 (Q1, IF: 2.811)
https://www.sciencedirect.com/science/article/pii/S0898122118303328

[30] 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 2018; 184:633-649 (Q1, IF: 4.829)
http://www.sciencedirect.com/science/article/pii/S0263822317324601

[29] **P. Phung-Van**, AJM. Ferreira, H. Nguyen-Xuan, M. Abdel-Wahab. An isogeometric approach for size-dependent geometrically nonlinear transient analysis of functionally graded nanoplates. Composites Part B: Engineering 2017; 118:125-134 (Q1, IF: 6.864)
http://www.sciencedirect.com/science/article/pii/S1359836817302524

[28] **P. Phung-Van**, Qui X. Lieu, H. Nguyen-Xuan, M. Abdel-Wahab. Size-dependent isogeometric analysis of functionally graded carbon nanotube-reinforced composite nanoplates. Composite Structures 2017; 166:120-135 (Q1, IF: 4.829)
http://www.sciencedirect.com/science/article/pii/S0263822316324151

[27] **P. Phung-Van**, Loc V. Tran, AJM. 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 2017; 87:879-894 (Q1, IF: 4.604)
http://link.springer.com/article/10.1007/s11071-016-3085-6

[26] 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 2016; 140:655-667 (Q1, IF: 4.829)
http://www.sciencedirect.com/science/article/pii/S0263822316000131

[25] S. Nguyen-Hoang, **P. Phung-Van**, S. Natarajan, HG. Kim. A combined scheme of edge-based and node-based smoothed finite element methods for Reissner–Mindlin flat shells. Engineering with Computers 2016; 32:267-284 (Q1, IF: 3.551)
http://link.springer.com/article/10.1007/s00366-015-0416-z

[24] **P. Phung-Van**, LB. Nguyen, Loc V. Tran, TD. Dinh, Chien H. Thai, SPA. 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 Non-Linear Mechanics 2015; 76:190-202 (Q1, IF: 2.225)

http://www.sciencedirect.com/science/article/pii/S0020746215001134

[23] **P. Phung-Van**, M. Abdel-Wahab, KM. Liew, SPA. Bordas, H. Nguyen-Xuan. Isogeometric analysis of functionally graded carbon nanotube-reinforced composite plates using higher-order shear deformation theory. Composite Structures 2015; 123:137-149 (Q1, IF: 4.829)
http://www.sciencedirect.com/science/article/pii/S0263822314006771

[22] **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. Computational Materials Science 2015; 96:495-505 (Q1, IF: 2.644)
http://www.sciencedirect.com/science/article/pii/S0927025614003243

[21] **P. Phung-Van**, T. Nguyen-Thoi, T. Bui-Xuan, Q. Lieu-Xuan. A cell-based smoothed three-node Mindlin plate element (CS-FEM-MIN3) based on the C0-type higher-order shear deformation for geometrically nonlinear analysis of laminated composite plates. Computational Materials Science 2015; 96:549-558 (Q1, IF: 2.644)
http://www.sciencedirect.com/science/article/pii/S0927025614002857

[20] T. Nguyen-Thoi, **P. Phung-Van**, MH. Nguyen-Thoi, H. Dang-Trung. An upper-bound limit analysis of Mindlin plates using CS-DSG3 method and second-order cone programming. Journal of Computational and Applied Mathematics 2015; 281:32-48 (Q2, IF: 1.883)
http://www.sciencedirect.com/science/article/pii/S0377042714005470

[19] T. Nguyen-Thoi, **P. Phung-Van**, V. Ho-Huu, L. Le-Anh. An edge-based smoothed finite element method (ES-FEM) for dynamic analysis of 2D Fluid-Solid interaction problems. KSCE Journal of Civil Engineering 2015; 19:641-650 (Q2, IF: 1.428)
http://link.springer.com/article/10.1007/s12205-015-0293-4

[18] **P. Phung-Van**, T. Nguyen-Thoi, H. Luong-Van, Q. Lieu-Xuan. Geometrically nonlinear analysis of functionally graded plates using a cell-based smoothed three-node plate element (CS-MIN3) based on the C0–HSDT. Computer Methods in Applied Mechanics and Engineering 2014; 270: 15–36 (Q1, IF: 4.821)
http://www.sciencedirect.com/science/article/pii/S0045782513003277

[17] **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 2014; 272: 138-159 (Q1, IF: 4.821)
http://www.sciencedirect.com/science/article/pii/S0045782514000140

[16] **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. Composites part B - Engineering 2014; 60: 227-238 (Q1, IF: 6.864)
http://www.sciencedirect.com/science/article/pii/S1359836813007749

[15] **P. Phung-Van**, T. Nguyen-Thoi, H. Dang-Trung, N. Nguyen-Minh. A cell-based smoothed discrete shear gap method (CS-FEM-DSG3) using layerwise theory based on the C0-type higher-order shear deformation for static and free vibration analyses of sandwich and composite plates. Composite Structures 2014; 111: 553-565 (Q1, IF: 4.829)
http://www.sciencedirect.com/science/article/pii/S0263822314000518

[14] **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 2014; 98: 988-1014 (Q1, IF: 2.746)
http://onlinelibrary.wiley.com/doi/10.1002/nme.4662/full

[13] H. Luong-van, T. Nguyen-Thoi, GR. Liu, **P. Phung-Van**. A cell-based smoothed finite element method using Mindlin plate element (CS-FEM-MIN3) for dynamic response of composite plates on viscoelastic foundation. Engineering Analysis with Boundary Elements 2014; 42: 8-19 (Q1, IF: 2.243)
http://www.sciencedirect.com/science/article/pii/S0955799713002439

[12] T. Nguyen-Thoi, **P. Phung-Van**, S. Nguyen-Hoang, Q. Lieu-Xuan. A smoothed coupled NS/nES-FEM for dynamic analysis of 2D fluid-solid interaction problems. Applied Mathematics and Computation 2014; 232: 324-346 (Q1, IF: 3.092)
http://www.sciencedirect.com/science/article/pii/S0096300314000897

[11] T. Nguyen-Thoi, T. Rabczuk, T. Lam-Phat, V. Ho-Huu, **P. Phung-Van**. Free vibration analysis of cracked Mindlin plate using an extended cell-based smoothed discrete shear gap method (XCS-DSG3). Theoretical and Applied Fracture Mechanics 2014; 72:150-163 (Q1, IF: 2.848)

http://www.sciencedirect.com/science/article/pii/S016784421400041X

[10] T. Nguyen-Thoi, **P. Phung-Van**, S. Nguyen-Hoang, Q. Lieu-Xuan. A coupled alpha-FEM for dynamic analyses of 2D fluid-solid interaction problems. Journal of Computational and Applied Mathematics 2014; 271:130-049 (Q2, IF: 1.883)
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[9] 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 2014; 18:1072-1082 (Q2, IF: 1.428)
http://link.springer.com/article/10.1007/s12205-014-0002-8

[8] **P. Phung-Van**, T. Nguyen-Thoi, T. Le-Dinh, H. Nguyen-Xuan. Static, free vibration analyses and dynamic control of composite plates integrated with piezoelectric sensors and actuators by the cell-based smoothed discrete shear gap method (CS-FEM-DSG3). Smart Materials and Structures 2013; 22: 095026 (Q1, IF: 3.543)
http://iopscience.iop.org/article/10.1088/0964-1726/22/9/095026

[7] **P. Phung-Van**, T. Nguyen-Thoi, Loc V. Tran, H. Nguyen-Xuan. A cell-based smoothed discrete shear gap method (CS-DSG3) based on the C^0-type higher-order shear deformation theory for static and free vibration analyses of functionally graded plates. Computational Materials Science 2013; 79:857-872 (Q1, IF: 2.644)
http://www.sciencedirect.com/science/article/pii/S0927025613003248

[6] T. Nguyen-Thoi, **P. Phung-Van**, C. Thai-Hoang, H. Nguyen-Xuan. A cell-based smoothed discrete shear gap method (CS-DSG3) using triangular elements for static and free vibration analyses of shell structures. International Journal of Mechanical Sciences 2013; 74: 32-45 (Q1, IF: 4.134)
http://www.sciencedirect.com/science/article/pii/S002074031300129X

[5] T. Nguyen-Thoi, T. Bui-Xuan, **P. Phung-Van**, H. Nguyen-Xuan, P. Ngo-Thanh. Static, free vibration and buckling analyses of stiffened plates by CS-FEM-DSG3 using triangular elements. Computers and Structures 2013; 125: 100-113 (Q1, IF: 3.354)
http://www.sciencedirect.com/science/article/pii/S0045794913001582

[4] T. Nguyen-Thoi, **P. Phung-Van**, T. Rabczuk, H. Nguyen-Xuan, C. Le-Van. Free and forced vibration analysis using the n-sided polygonal cell-based smoothed finite element method (nCS-FEM). International Journal of Computational Methods 2013; 10(1): 1340008 (Q2, IF: 1.221)

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[3] T. Nguyen-Thoi, **P. Phung-Van**, T. Rabczuk, H. Nguyen-Xuan, C. Le-Van. An application of the ES-FEM in solid domain for dynamic analysis of 2D fluid-solid interaction problems. International Journal of Computational Methods 2013; 10(1): 1340003 (Q2, IF: 1.221)
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[2] T. Nguyen-Thoi, **P. Phung-Van**, H. Luong-Van, H. Nguyen-Van, H. Nguyen-Xuan. A cell-based smoothed three-node Mindlin plate element (CS-MIN3) for static and free vibration analyses of plates. Computational Mechanics 2013; 51 (1): 65-81 (Q1, IF: 3.159)
http://link.springer.com/article/10.1007/s00466-012-0705-y

[1] T. Nguyen-Thoi, **P. Phung-Van**, H. Nguyen-Xuan, C. Thai-Hoang. A cell-based smoothed discrete shear gap method using triangular elements for static and free vibration analyses of Reissner-Mindlin plates. International Journal for Numerical Methods in Engineering 2012; 91(7): 705-741 (Q1, IF: 2.746)
http://onlinelibrary.wiley.com/doi/10.1002/nme.4289/abstract

Peer-reviewed papers

[2] CH. Thai, **P. Phung-Van**, H. Nguyen-Xuan. Buckling analysis of FG GPLRC plate using a naturally stabilized nodal integration meshfree method. Modern Mechanics and Applications 2022; 189-202.
https://link.springer.com/chapter/10.1007/978-981-16-3239-6_15

[1] T. Nguyen-Thoi, H. Luong-Van, **P. Phung-Van**, T. Rabczuk, D. Tran-Trung. Dynamic responses of composite plates on the Pasternak foundation subjected to a moving mass by a cell-based smoothed discrete shear gap (CS-FEM-DSG3) Method. International Journal of Composite Materials 2013; 3(6A): 19-27
http://article.sapub.org/10.5923.s.cmaterials.201309.03.html

8. Communications in conferences

[15] T. Vu-Huu, **P. Phung Van**, H. Nguyen-Xuan, M. Abdel Wahab. Polygonal analysis and polytree-based adaptive topology optimization of fluid-submerged breakwater interaction. The 13th World Congress in Computational Mechanics, 22-27 July 2018, New York, USA.

[14] **P. Phung-Van**, H. Nguyen-Xuan, M. Abdel Wahab. Nonlinear analysis of nanoplates using isogeometric analysis. International Conference on Modelling in Mechanics & Materials, 23-25 March 2018, San Francisco, USA.

[13] C.L. Thanh, **P. Phung-Van**, C.H. Thai, M. Abdel Wahab. Isogeometric analysis of functionally graded carbon nanotube reinforced composite nanoplates using modified couple stress theory. International Conference on Modelling in Mechanics & Materials, 23-25 March 2018, San Francisco, USA.

[12] T. Vu-Huu, C. Le-Thanh, M. Abdel Wahab, H. Nguyen-Xuan, **P. Phung Van**. Fluid-structure interaction analysis of revetment structures – an overview. The International Conference on Advances in Computational Mechanics - ACOME, 2-4 August 2017, Phu Quoc Island, Vietnam.

[11] **P. Phung Van**, M. Abdel Wahab, H. Nguyen-Xuan. Buckling analysis of nanoplates using IGA. 6th International Conference on Fracture Fatigue and Wear, 26-27 July 2017, Porto, Portugal.

[10] **P. Phung Van**, M. Abdel Wahab, H. Nguyen-Xuan. An isogeometric approach for size-dependent buckling analysis of FGM nanoplates. 12th International Conference on Damage Assessment of Structures, 10-12 July 2017, Kyushu Institute of Technology, Japan.

[9] **P. Phung Van**, Loc V. Tran, H. Nguyen-Xuan, M. Abdel Wahab. Nonlinear control of smart plates using isogeometric analysis. 5th International Conference on Fracture Fatigue and Wear, 26-28 August 2016, Kyushu Institute of Technology, Japan.

[8] Loc V. Tran, **P. Phung Van**, H. Nguyen-Xuan, M. Abdel Wahab. Nonlinear transient isogeometric analysis of laminated composite plates based on higher order plate theory. 5th International Conference on Fracture Fatigue and Wear, 26-28 August 2016, Kyushu Institute of Technology, Japan.

[7] **P. Phung-Van**, Nguyen B. Lieu, Tran V. Loc, M. Abdel-Wahab, H. Nguyen-Xuan. Nonlinear analysis of piezoelectric composite plates using isogeometric approach. Structural Engineering and Construction (EASEC-14), 6-8 January 2016, Ho Chi Minh City, Vietnam.

[6] **P. Phung Van**, Loc V. Tran, M. Abdel-Wahab, H. Nguyen-Xuan. An efficient computational approach for nonlinear analysis of smart piezoelectric plates. 4th International Conference on Fracture Fatigue and Wear, 27-28 August 2015, Ghent University, Belgium.

[5] **P. Phung-Van**, Tran V. Loc, M. Abdel-Wahab, H. Nguyen-Xuan. Buckling analysis of piezoelectric composite plates using NURBS-based isogeometric finite elements and higher-order shear deformation theory. International Journal of Fracture Fatigue and Wear (FFW), 1-3 September 2014, Kitakyushu University, Japan.

[4] T. Nguyen-Thoi, **P. Phung-Van**, H. Nguyen-Xuan. Formulation and development of the cell-based smoothed discrete shear gap plate element (CS-FEM-DSG3) using three-node triangles. The 5th Asia Pacific Congress on Computational Mechanics (APCOM V) and the 4th International Symposium on Computational Mechanics (ISCM VI), 11-14 December 2013, Singapore.

[3] **P. Phung-Van**, T. Nguyen-Thoi, H. Nguyen-Chanh, C. Le-Van. An effective adaptive limit analysis of soil using FEM and second-order cone programming. The International Conference on Advances in Computational Mechanics (ACOME), Ton Duc Thang University, 14-16 August 2012, Ho Chi Minh City, Vietnam.

[2] **P. Phung-Van**, T. Nguyen-Thoi. Static analysis of Reissner-Mindlin plates by a cell-ased smoothed discrete shear gap method (CS-DSG3) using triangular elements. The 1st International Symposium on Engineering Physics and Mechanics (ISEPM 2011), 25-26 October 2011, University of Technology, Ho Chi Minh City, Vietnam.

[1] **P. Phung-Van**, T. Nguyen-Thoi. A n-side polygonal edge-based smoothed FEM (nES-FEM) for dynamic analysis of 2D fluid-solid interaction problems. International Conference on Advanced Computing and Applications Ho Chi Minh City (ACOMP), 19-21 October 2011, University of Technology, Ho Chi Minh City, Vietnam.

9. Honor & Awards

- Best paper award, Engineering Analysis with Boundary Elements - Journal, 2020-2022.
- Best Rising Stars of Science in the World, 2022, 2023.
- The World's top 1% of leading scientists from the area of Mechanical and Aerospace Engineering, 2022, 2023.
- The World's top 2% of of the most-cited researchers in all fields of science, 2019-2023.
- The World's Top 1% of reviewer in Cross-Field, Publons – Web of Science, 09/2019.
- The World's Top 1% of reviewer in Materials Science, Publons – Web of Science, 09/2018.
- Special Research Fund Ghent University, Belgium, 10/2016 – 10/2019.
- Erasmus Mundus scholarship (Lotus scholarship): 05/2015 – 04/2016.
- The SRS VLIR-UOS scholarship (Short research stays in Belgium), 02/2014 – 05/2014.