

Professor Hung Nguyen-Xuan

(left, receiving the 2015 Georg Forster Research Award)

See:

- <https://sites.google.com/site/nguyenxuanhungsite/>
- <https://scholar.google.co.uk/citations?user=3iK9h-gAAAAJ>
- https://legato-team.eu/legato_team_member/hung-nguyen-xuan/
- https://www.researchgate.net/profile/H_Nguyen-Xuan/citations
- https://www.researchgate.net/profile/H_Nguyen-Xuan/info
- <http://www.fas.hcmut.edu.vn/home/files/VLTT/CV/NXHung%20Resume.pdf>

Director, Center for Interdisciplinary Research
 Mechanical Engineering, Structural Engineering, Engineering Physics
 Ho Chi Minh City University of Technical University (HUTECH), Vietnam
 Also: Duy Tan University, Da Nang, Vietnam
 Also: Visiting Professor, Department of Architectural Engineering, Sejong University, Seoul, Korea

Education:

2005-2008 PhD University of Liege

Biography:

Nguyen-Xuan Hung joined Center for Interdisciplinary Research in Technology, Hutech University (Vietnam) and Graduate Institute of Rehabilitation Science, China Medical University (Taiwan) in the early 2015. Prior to this, he held an Associate Professor position at Department of Computational Engineering, Vietnamese-German

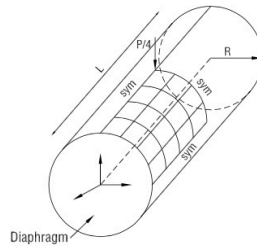


Fig. 11. Pinched cylinder with diaphragm boundary conditions ($P = 1$; $R = 300$; $L = 600$; $\nu = 0.3$; $\nu = 0.3$; $E = 3 \times 10^7$).

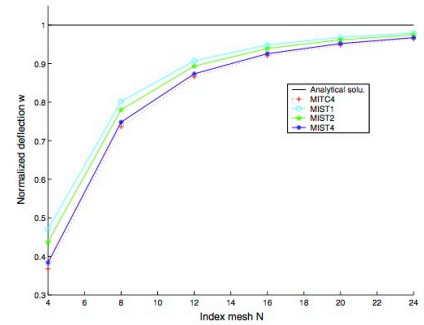


Fig. 13. The convergence of deflection at under the load for a regular mesh.

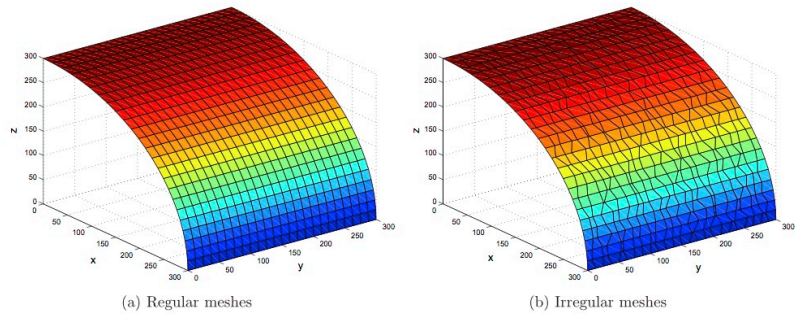


Fig. 12. Regular and irregular meshes used for the analysis.

From: Nguyen-Thanh, N., Rabczuk, T., Nguyen-Xuan, H., and Bordas, S. (2008). "A smoothed finite element method for shell analysis." Computer Methods in Applied Mechanics and Engineering, Vol. 198, No. 2, pp. 165–177, 2008

University and Faculty of Mathematics & Computer Science, University of Science, VNU-HCMC. He worked as a researcher at Division of Computational Mechanics, Ton Duc Thang University. He got his B.S. in Mathematics & Computer Science at University of Science, M.Sc. in Modelisation of Continuum and Ph.D in Computational Mechanics from University of Liege (Belgium). He was a Postdoctoral fellowship at National University of Singapore (NUS), a Visiting Researcher at Bauhaus-University Weimar (Germany), a Research Scholar at University of Cincinnati (USA) and a Visiting Professor of Cardiff University (UK). Dr. Nguyen-Xuan is also a Visiting Professor in Sejong University (Korea). His researches are currently focused on advanced trends of robust computational methods, and computer-based simulation technology in engineering applications.

Honors and Awards:

2016 Thompson Reuters Highly Cited Researchers

2015 Georg Forster Research Award <https://www.humboldt-foundation.de>

2015 Thompson Reuters Highly Cited Researchers

2014 Thompson Reuters Highly Cited Researchers

2008-2013 Excellent researcher, Vietnam National University HCMC

2011 Nguyen Van Dao's award, Association of Mechanics of Vietnam

Selected Publications:

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Nguyen-Thoi, T., Liu, G.R., Nguyen-Xuan, H., et al.: Adaptive analysis using the node-based smoothed finite element method (NS-FEM). *Int. J. Numer. Methods Biomed. Eng.* 27, 198–218 (2011)

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discrete shear gap technique for analysis of isotropic Mindlin-Reissner plates. *Finite Elem. Anal. Des.* 47, 519–535 (2011)

Nguyen-Thanh N, Nguyen-Xuan H, Bordas S, Rabczuk T. Isogeometric analysis using polynomial splines over hierarchical t-meshes for two-dimensional elastic solids. *Comput Methods Appl Mech Eng*; 200:1892–1908, 2011

Nguyen-Xuan H., Tran L.V., Nguyen-Thoi T., Vu-Do H.C.: Analysis of functionally graded plates using an edge-based smoothed finite element method. *Compos. Struct.* 93, 3019–3039 (2011)

Nguyen-Thanh N, Kiendl J, Nguyen-Xuan H, Wucher R, Bletzinger KU, Bazilevs Y, et al. Rotation free isogeometric thin shell analysis using PHT-splines. *Comput Methods Appl Mech Eng*; 200:3410–3424, 2011

H. Nguyen-Xuan, Loc V. Tran, Chien H. Thai and T. Nguyen-Thoi, “Analysis of functionally graded plates by an efficient finite element method with node-based strain smoothing”, *Thin-Walled Structures*, Vol. 54, pp 1-18, May 2012

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