



Specifications

Name: **Karim Abedi**

Date of Birth: **29th December 1959, Salmas, West Azerbaijan, Iran**

Title: **Ph. D**

Major Field: **Structural Engineering**

Position: **Professor**

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I serve as a Full Professor of Structural Engineering at the Sahand University of Technology. I am supervising experimental and numerical research for postgraduate students. During my career, I have authored and co-authored over seventy peer-reviewed research articles published in high-status engineering journals. I have also successfully co-authored three peer-reviewed books about structural stability published by SUT Press. I was a member of the scientific committee of most national civil engineering conferences. I am frequently invited to judge the work of others in my field by high-status journals and conferences. I am also frequently invited to give a lecture in the field of space structures.

Education

Ph. D. 1993-1997, Department of Civil Engineering, University of Surrey, England.

M. Sc. 1987-1989, Department of Civil Engineering, Tabriz University, Tabriz, Iran.

B. Sc., 1981-1986, Department of Civil Engineering, Amirkabir University of Technology, Tehran, Iran.

Professional Membership

IASS (International Association for Shell and Spatial Structures)

IISS (Iranian Institute of Spatial Structures)

Areas of Interests

Space Structures

Steel Structures

Teaching Experience

In B. Sc:

- 1) Static
- 2) Strength of Materials (1 & 2)
- 3) Analysis of Structures (2)

In M. Sc:

- 1) Modeling, Analysis, and Design of Space Structures
- 2) Stability Theory of Structures
- 3) Finite Element Procedures
- 4) Theory of Elasticity and Plasticity
- 5) Matrix Structural Analysis
- 6) Retrofitting of Structures

In Ph. D:

- 1) Nonlinear Finite Element Analysis
- 2) Stability Analysis of Space Structures
- 3) Advanced Numerical Methods in Geotechnic Engineering

(برای تمام دروس تدریس شده در دوره های کارشناسی، کارشناسی ارشد و دکترا، مطابق با آخرین سرفصل های مصوب وزارت علوم، فایل های Powepoint تهیه و در سایت دانشگاه (<http://fa.cie.sut.ac.ir/>) قرار داده شده و فایل های آنها قابل دسترسی برای عموم دانشجویان و اساتید علاقمند در کل کشور است. این فایل ها در هر ترم ارتقاء داده شده و بروز می گردند. فایل های Powepoint دروس زیر در دسترس می باشند:

- مقاومت مصالح ۲ (دوره کارشناسی)؛
- تحلیل سازه ۲ (دوره کارشناسی)؛
- تئوری الاستیسیته (دوره کارشناسی ارشد)؛
- تئوری پایداری سازه ها (دوره کارشناسی ارشد)؛
- روش عناصر محدود (دوره کارشناسی ارشد)؛
- مدل سازی، تحلیل و طراحی سازه های فضاکار (دوره های کارشناسی ارشد و دکترا)؛
- عناصر محدود پیشرفته غیرخطی (دوره دکتری)؛
- روش های عددی پیشرفته در مهندسی ژئوتکنیک (دوره دکتری).

Translated Books

- (۱) روش های عناصر محدود (مجلد اول)، تالیف کلاوس یورگن باته، ۱۳۷۷ (چاپ دوم، ۱۳۹۰ و چاپ سوم، ۱۳۹۴).
- (۲) روش های عناصر محدود (مجلد دوم)، تالیف کلاوس یورگن باته، ۱۳۷۸ (چاپ دوم، ۱۳۹۶).
- (۳) مبانی مکانیک سازه ای، تالیف کیت د. هيلمستاد، ۱۳۷۹.

- (۴) تحلیل ماتریسی سازه ها، تالیف ویلیام مک گوایر، ریچارد ه. گالاگر و رونالد د. زیملان، ۱۳۸۱.
- (۵) تحلیل غیرارتجاعی جامدات و سازه ها، تالیف کلاوس یورگن باته و میلوش کوچیچ، ۱۳۸۶.

Written Books

- 1) *Stability Analysis of Space Structures*, By K. Abedi and B. Shekasteband, 2010, (In Persian)

This book serves as both a textbook for postgraduate courses on stability analysis of space structures and a reference volume for engineers and scientists. It includes some original derivations as well as many new research results not yet published in periodicals. The contents of this book contain fundamentals of stability theory, different classes of instability phenomenon in space structures, static collapse analysis considering the nodal snap-through, static collapse analysis considering the member buckling phenomenon, and dynamic collapse analysis considering dynamic propagation of a local nodal snap-through and member snap.

این کتاب، حاصل بیش از بیست سال تجربه، تحقیق و نیز تدریس مؤلف اول در دوره‌های کارشناسی ارشد و دکتری و نیز تحقیق و مطالعه مؤلف دوم است. اهداف اصلی کتاب حاضر عبارت اند از:

- ارائه مبانی نظری تحلیل پایداری سازه‌های فضاکار مشبک؛
- تشریح ناپایداری‌ها و خرابی‌هایی که وقوع آنها در سازه های فضاکار محتمل است؛
- تاکید خاص بر تشریح پدیده انتشار دینامیکی خرابی‌های موضعی و خرابی پیشرونده در سازه‌های فضاکار؛
- ارائه جزئیات کامل روش‌های تحلیل استاتیکی و دینامیکی خرابی سازه‌ها.

در ضمن برخی از ویژگی های این کتاب عبارت اند از:

- روش‌های ارائه شده در این کتاب، بویژه در خصوص مدل‌سازی رفتار خرابی سازه‌های فضاکار، بر مبنای پیاده‌سازی آنها در برنامه‌های کامپیوتری تحلیل خرابی آماده شده و فرایندهای موردنیاز برای برنامه‌نویسی یا استفاده از نرم‌افزارهای موجود در اکثر موضوع‌های مورد بحث فراهم گشته‌اند؛
- در این کتاب، مثال‌های متنوعی مشتمل بر تحلیل نمونه‌های عملی خرابی سازه‌های فضاکار، نمونه‌هایی برای صحت‌سنجی تحلیل‌های استاتیکی و دینامیکی خرابی این سازه‌ها و نیز نمونه‌هایی برای تفهیم روش‌های عددی مورد استفاده ارائه شده است؛
- مسائل و تمرین‌های متنوعی در مورد تمامی روش‌های تحلیل خرابی سازه‌ها با تأکید بر جنبه‌های عملی آنها و نیز تشریح کامل این روش‌ها ارائه شده‌اند؛
- کتاب شامل مبانی مقدماتی پایداری تا مباحث پیشرفته روش‌های تحلیل خرابی سازه‌ها است، از این‌رو برای دانشجویان دوره‌های کارشناسی ارشد و دکتری و نیز برای مهندسين طراح و پژوهشگران ارجمند می‌تواند سودمند باشد.

- 2) *Fundamental of Structural Stability*, By K. Abedi and B. Shekasteband, 2014, (In Persian)

The material contained in this text is ideally suited for postgraduate students in Civil, Mechanics, and Aerospace Engineering. The topics presented in the text pertain to various aspects of elastic buckling and inelastic instability. The emphasis of the book is on the fundamental concepts and on the methodology developed through the years to solve structural stability problems. The book contains a detailed treatment of the different classes of the instability phenomenon, elastic and inelastic stability analysis of columns, beams, beam-columns, frames, arches, plates, and shells.

این کتاب مجموعه‌ای جامع جهت آشنایی با مبانی پایداری سازه‌ها است. پایداری سازه‌ها از مهمترین دروس مهندسی سازه است که بحث اصلی آن کمانش سازه‌ها می‌باشد. آشنایی دانشجویان رشته مهندسی سازه و مهندسين محاسب سازه‌ها با مبانی پایداری سازه امری اجتناب ناپذیر و ضروری می‌باشد. اهداف اصلی کتاب حاضر عبارت اند از:

- ارائه مبانی پایداری سازه‌ها؛
- تشریح ناپایداری‌ها و خرابی‌هایی که وقوع آنها در انواع متنوعی از سازه‌ها محتمل است؛
- تاکید خاص بر تشریح پدیده کمانش ستون‌ها، تیرستون‌ها، قاب‌ها، قوس‌ها، صفحات و پوسته‌ها؛

در ضمن برخی از ویژگی‌های این کتاب عبارت اند از:

- این کتاب شامل نتایج آخرین و جدیدترین پژوهش‌ها در زمینه تحلیل پایداری سازه‌ها بوده؛ به گونه‌ای که مراجع مورد استفاده در انتهای هر فصل آورده شده است؛
- مسائل و تمرین‌های متنوعی در مورد تمامی روش‌های تحلیل خرابی سازه‌ها با تأکید بر جنبه‌های عملی آنها و نیز تشریح کامل این روش‌ها ارائه شده‌اند؛
- کتاب شامل مبانی پایداری سازه‌ها است، از این‌رو برای دانشجویان دوره‌های کارشناسی ارشد و دکتری و نیز برای مهندسين طراح و پژوهشگران ارجمند می‌تواند سودمند باشد.

(کتاب مذکور در مراسم سالانه سی و چهارمین دوره جایزه کتاب سال جمهوری اسلامی ایران از طرف هیات داوران به عنوان کتاب شایسته تقدیر در زمینه علوم مهندسی انتخاب شد)

3) *Advanced Topics on Structural Stability*, By: K. Abedi and B. Shekasteband, 2020, (In Persian)

This book is by no means a comprehensive treatment of structural stability. However, it contains both numerical and experimental methods that could be of interest to a variety of structural specialists. Expert researchers will find the most recent progress in the stability of structures, including advanced problems in Finite Element-related Stability treatments, the Progressive Collapse phenomenon, and the Dynamic Instability issue. Professionals will find many practical concepts and numerical results, useful for the design of skeletal structures made of traditional and advanced materials. They will be able to understand complex stability tests conducted on different parts of structures.

تحلیل پایداری سازه‌های واقعی مستلزم استفاده از مدل‌های عناصر محدود پیشرفته و تحلیل‌های غیرخطی می‌باشد. از سوی دیگر، ناپایداری دینامیکی سازه‌های مختلف و معیارهای ارزیابی آن تحت اثر گستره وسیعی از بارهای دینامیکی، جزو مسائل پیشرفته پایداری سازه‌ها می‌باشد. از دیگر مسائل

پیشرفته پایداری سازه‌ها می‌توان موضوع مهم خرابی پیشرونده سازه‌ها، روش‌های تحلیل و روش‌های مقاوم‌سازی سازه‌ها در برابر این نوع خرابی را ذکر نمود که در دهه‌های اخیر مورد توجه ویژه محققان قرار گرفته و مطالعات زیادی در رابطه با این موضوع انجام یافته است. با توجه به حساسیت رفتار ناپایداری سازه‌ها به ناکاملی‌های اولیه، آزمایش‌ها ابزار اساسی در بررسی ناپایداری سازه‌ها می‌باشند و انجام تحلیل‌های پیشرفته ناپایداری به تنهایی کافی نیستند. از این‌رو، در کنار تحلیل‌های عددی، روش‌های مطالعات آزمایشگاهی در روی رفتار ناپایداری سازه‌ها جزو مسائل پیشرفته پایداری سازه‌ها می‌باشند. کتاب حاضر بر اساس تجربیات و مطالعات گسترده مولفین، در زمینه مباحث پیشرفته مذکور در پایداری سازه‌ها به نگارش درآمده است.

اهداف اصلی کتاب حاضر عبارت‌اند از:

- ارائه مباحث پیشرفته مورد استفاده در مطالعات پژوهشی ناپایداری سازه‌ها؛
 - پوشش فضای بین‌مبانی و مسائل پیشرفته پایداری سازه‌ها؛
 - ارائه روش‌های نوین عددی و آزمایشگاهی بررسی ناپایداری سازه‌ها تحت اثر انواع رویدادها؛
 - ارائه روش‌های بدیع مقابله با انواع ناپایداری در سازه‌ها.
- در ضمن برخی از ویژگی‌های این کتاب عبارت‌اند از:
- این کتاب شامل نتایج آخرین و جدیدترین پژوهش‌ها در زمینه مباحث پیشرفته پایداری سازه‌ها بوده؛ به گونه‌ای که مراجع مورد استفاده در انتهای هر فصل آورده شده است؛
 - کتاب شامل مباحث پیشرفته پایداری سازه‌ها است، از این‌رو برای دانشجویان دوره‌های کارشناسی ارشد و دکتری و نیز برای پژوهشگران ارجمند می‌تواند سودمند باشد.

Edited Book

- (۱) تکنولوژی طراحی و ساخت سازه‌های صنعتی و مدولار، تالیف ایشتایپ، دورهوفر و روزنتال، ترجمه: دکتر مازیار آصفی، ۱۳۸۹.
- (۲) گزارش تحلیلی زمین لرزه سرپل ذهاب استان کرمانشاه، تالیف دکتر آرش اکبری حامد، دکتر علیرضا محمد جعفری صادقی، دکتر محمد چرختاب بسیم، دکتر مهرداد امامی تبریزی، انتشارات دانشگاه صنعتی سهند تبریز، ۱۳۹۷.
- (۳) سازه‌های کش‌بستی - مدل‌سازی، تحلیل، طراحی و ساخت، تالیف و تصنیف دکتر بهزاد شکسته بند، انتشارات دانشگاه صنعتی ارومیه، ۱۴۰۱.

Some Awards

- (۱) مولف کتاب شایسته تقدیر در زمینه علوم مهندسی در مراسم سالانه سی و چهارمین دوره جایزه کتاب سال جمهوری اسلامی ایران
- (۲) پژوهشگر نمونه دانشکده مهندسی عمران در سال ۱۳۸۳
- (۳) پژوهشگر نمونه دانشکده مهندسی عمران در سال ۱۳۸۶
- (۴) رتبه سوم پژوهشگر سال در دانشگاه صنعتی سهند در سال ۱۳۸۶

- (۵) پژوهشگر نمونه دانشکده مهندسی عمران در سال ۱۳۸۷
- (۶) پژوهشگر نمونه دانشکده مهندسی عمران در سال ۱۳۹۵
- (۷) مولف برگزیده کتاب دانشگاه در سال ۱۳۹۷
- (۸) پژوهشگر نمونه دانشکده مهندسی عمران در سال ۱۳۹۸
- (۹) مولف برگزیده کتاب دانشگاه در سال ۱۴۰۰
- (۱۰) پژوهشگر نمونه دانشکده مهندسی عمران در سال ۱۴۰۱
- (۱۱) استاد سرآمد آموزشی دانشکده مهندسی عمران در سال ۱۴۰۱
- (۱۲) استاد سرآمد آموزشی دانشکده مهندسی عمران در سال ۱۴۰۳

Published Journal Papers

1. **Abedi, K, and Parke, G A R**, "Progressive Collapse of Single-Layer Braced Domes", International Journal of Space Structures, Vol. 11, No. 2, 1996.
2. **Parke, G A R, Toy, N, Savory, E, Abedi, K and Chenaghlou, R**, "Appraisal of Deployable Dome Structures under Wind Loading", Wind and Structures, Vol. 1, No. 4, 1998.
3. **Sheidaii, M R, Parke G A R, Abedi, K and Behraves, A**, "Dynamic Snap-Through Buckling of Truss-Type Structures", International Journal of Space Structures, Vol. 16, No. 2, 2001.
4. **Abedi, K, and Parke G A R**, "Experimental Study of Dynamic Propagation of Local Snap-Through in Single-Layer Braced Domes", International Journal of Space Structures, Vol. 16, No. 2, 2001.
5. **Sheidaii, M R, Abedi, K, Behraves, A and Parke, G A R**, "An Investigation into the Collapse Behavior of Double Layer Space Trusses", Iranian Journal of Science & Technology, Vol. 27, No. B1, 2003.
6. **Abedi, K, and Habashizadeh, M**, "Dynamic Instability Analysis of Two-Dimensional Industrial Frames Subjected to Impulsive Loading", International Journal of Engineering Science of the University of Science and Technology, Vol. 14, No. 2, 2003. (In Persian)
7. **Abedi, K, Chenaghlou, M and Alirezaie, S**, "Investigation into the Progressive

Collapse Behavior of Space Steel Frames", International Journal of Engineering Science of the University of Science and Technology, Vol. 14, No. 4, 2003. **(In Persian)**

8. **Abedi, K, Afshin, H and Ferdousi, A**, "Investigation into the Behavior of a Novel Section for Concrete Filled Steel Columns under Axial and Cyclic Loading with Finite Element Method", Journal of Faculty of Engineering, University of Tabriz, Vol. 29, No. 3, 2004. **(In Persian)**
9. **Aghajari, S, Abedi, K and Showkati, H**, "Buckling and Post-Buckling Behavior of Thin-Walled Cylindrical Steel Shells with Varying Thickness Subjected to Uniform External Pressure", Thin-Walled Structures, Vol. 44, 2006.
10. **Abedi, K, and Habashizadeh, M**, "Investigation into the Dynamic Instability Analysis of 3D Dimensional Industrial Frames Subjected to Impulsive Loading", Journal of Faculty of Engineering, University of Tabriz, Vol. 32, No. 3, Spring 2006. **(In Persian)**
11. **Talebpour, R, Abedi, K and Gharebaghi, A R**, "Finite Element Modeling of Collapse Propagation in Offshore Pipelines", Journal of Marine Engineering, Vol. 3, No. 4, Winter 2006. **(In Persian)**
12. **Abedi, K, and Parke, G A R**, "Investigation into the Behavior of a Ductile Multi-Tubular Force Limiting Device", Iranian Journal of Science & Technology, Vol. 31, No. B2, 2007.
13. **Abedi, K, and Sheidaii, M R**, "Investigation of the Double-Layer Grid Space Structures Resistance to Progressive Collapse", Esteghlal, Journal of Engineering, Isfahan University of Technology, Vol. 26, No. 1, September 2007. **(In Persian)**
14. **Abedi, K, Ferdousi, A and Afshin, H**, "A Novel Section for Concrete Filled Steel Columns", Thin-walled Structures, Vol. 46, 2008.
15. **Chenaghlou, M R, Abedi, K and Alizadeh, H**, "Investigation into the Collapse Behavior of Steel Shear Walls", Journal of Faculty of Engineering, University of Tabriz, Vol. 35, No. 3, 2008. **(In Persian)**
16. **Eghbalian, M and Abedi, K**, "Investigation into the Behavior of Unstiffened Steel Shear Walls in Tall Buildings", Journal of Faculty of Engineering, University of Tabriz, Vol. 35, No. 3, 2008. **(In Persian)**
17. **Abedi, K, and Shekastehband, B**, "Static Stability Behavior of Plane Double-Layer Tensegrity Structures", International Journal of Space Structures, Vol. 23, No. 2,

2008.

- 18. Pasbani Khiavi, M, Mostafa Gharabaghi, A, R, and Abedi, K,** "The Effect of Far Boundary on Hydrodynamic Pressure due to the Dam-Reservoir Interaction Using Finite Element Method", Journal of Civil and Environmental Engineering, The University of Tabriz, Vol. 39, No. 2, Summer 2009. **(In Persian)**
- 19. Pasbani Khiavi, M, Mostafa Gharabaghi, A, R, and Abedi, K,** "Dynamic Analysis of Porous Media using Finite Element Method", World Academy of Science, Engineering, and Technology, Volume 58, October 2009.
- 20. Abedi, K, Afshin, H and NooriShirazi, M R,** "Numerical Study on the Seismic Retrofitting of Reinforced Concrete Bridge Columns using Rectified Steel Jackets ", Asian Journal of Civil Engineering (Building and Housing), Vol. 11, No. 2, 2010.
- 21. Omrani, Z, Mostafa Gharabaghi, A, and Abedi, K,** "Investigation into Dynamic Buckle Propagation Velocity in Marine Pipelines", Journal of Marine Engineering, Journal of Marine Engineering, Vol. 6, No. 11, Spring and Summer 2010. **(In Persian)**
- 22. Ghandi, E and Abedi, K,** "An Investigation into the Stability of Continuous and Discontinuous Strut Tensegrity Grids Composed of Triangular Simplexes", Journal of Civil and Environmental Engineering, University of Tabriz, Vol. 39, No. 3, Autumn 2009. **(In Persian)**
- 23. Pasbani Khiavi, M, Mostafa Gharabaghi, AR, and Abedi, K,** "Dynamic Analysis of Porous Media in Time Domain Using Finite Element Model", Journal of Porous Media, Vol. 13, No. 10, 2010.
- 24. Chogoli, H, Chenaghlou, M R and Abedi, K,** "Investigation into the Behavior of Concrete Filled Double Skin Tubular Columns (CFDST)", Journal of Civil and Surveying Engineering, University of Tehran, Vol. 44, No. 5, February 2011. **(In Persian)**
- 25. Arablouei, A, Ghalandarzadeh, A, Gharebaghi, A R M, and Abedi, K,** "A Numerical Study of Liquefaction Induced Deformation on Caisson-Type Quay Wall Using Partially Coupled Solution", Journal of Offshore Mechanics and Arctic Engineering, Vol. 133, No. 2, May 2011.
- 26. Shekastehband, B, Abedi, K and Chenaghlou, M R,** "Sensitivity Analysis of Tensegrity Systems due to Member Loss", Journal of Constructional Steel Research, Vol. 67, Issue 9, September 2011.

- 27. Aghajari, S, Showkati, H, and, Abedi, K,** "Experimental Investigation on Thin Cylindrical Shells with Stepwise Variable Thickness", *Structural Engineering and Mechanics, an International Journal*, Vol. 39, No. 6, 2011.
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- 157. Vaezi Azna, R, Akhavan Masoomi, E and Abedi, K**, “Investigation into the Stability behavior of Single-Layer Braced Domes under the Gravity Loads”, 10th International Congress on Civil Engineering, May 5-7, 2015, University of Tabriz, Tabriz, Iran. **(In Persian)**
- 158. Noori Shirazi, M R, Afshin, H and Abedi, K**, “Seismic Strengthening of Small Scale Plain Concrete Columns with New Hybrid Steel-FRP Jackets”, 7th International Conference on Seismology & Earthquake Engineering, May 18-21, Tehran, Iran, 2015.
- 159. Saie, R, Poursha, M and Abedi, K**, “Evaluation of the Displacement Amplification Factors of eccentrically Braced Steel Frames”, 7th International Conference on Seismology & Earthquake Engineering, May 18-21, Tehran, Iran, 2015. **(In Persian)**
- 160. Abedi, K, Farmanifard, M and Samavati, O**, “Stability Analysis of Lattice

Single-Layer Barrel Vaults Considering the Effects of Purlins”, IASS2015, August 17-20, 2015, Amsterdam, The Netherlands.

- 161. Abbasi Mousavi, M, Abedi, K, and Chenaghlou, M R**, “Progressive Collapse of Double Domes Free Form Space Structures”, IASS2015, August 17-20, 2015, Amsterdam, The Netherlands.
- 162. Shekastehtband, B, Pourmand, N and Abedi, K**, “Nonlinear Static Alternate Path Analyses on Tensegrity Systems Considering Effects of Self-Stress Distributions”, IASS2015, August 17-20, 2015, Amsterdam, The Netherlands.
- 163. Shekastehtband, B, Taromi, A and Abedi, K**, “Enhancing Fire Resistance of CFDST Columns Due to Geometrical and Mechanical Properties of Steel Tubes”, IASS2015, August 17-20, 2015, Amsterdam, The Netherlands.
- 164. Abbasi Mousavi, M, Abedi, K and Chenaghlou, M R**, “Investigation into the Effects of Some Important Parameters on the Stability Behavior of Double Domes Free Form Space Structures”, 9th National Congress on Civil Engineering, May 10-11, 2016, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**
- 165. Poursharifi, M, M, Abedi, K and Chenaghlou, M R**, “Investigation into the Effects of an Innovative Force Limiting Device on the Collapse Behavior of Double-Layer Barrel Vault Space Structures”, 9th National Congress on Civil Engineering, May 10-11, 2016, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**
- 166. Dana, M, and Abedi, K**, “Investigation into the Stability Behavior of Double-Layer Barrel Vault Space Structures”, 9th National Congress on Civil Engineering, May 10-11, 2016, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**
- 167. Akhavan Masoomi, E and Abedi, K**, “Investigation into the Stability Behavior of Double-Layer Scallop Domes”, 9th National Congress on Civil Engineering, May 10-11, 2016, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**
- 168. Poursharifi, M, M, Abedi, K and Chenaghlou, M R**, “Effect of Accordion Force Limiting Device on Stability Behavior of Double-Layer Grids”, IASS2016, September 26-30, 2016, Tokyo, Japan.
- 169. Pourkhorshidi, S and Abedi, K**, “The Effects of Dents on the Buckling and Post-Buckling Behavior of Cylindrical Shells with Stepwise Variable Thickness”, IASS2016, September 26-30, 2016, Tokyo, Japan.
- 170. Vaezi Azna, R and Abedi, K**, “Effects of Member Length Imperfection on Stability Behavior of Double-Layer Pellevated Dome”, IASS2016, September 26-30,

2016, Tokyo, Japan.

- 171. Esmaeili Niari, S and Abedi, K**, “Experimental Study on the Behavior of Steel Sheathed Cold-Formed Shear Walls Subjected to the Cyclic Lateral Loading”, 7th National Conference and Second International Conference of Structure and Steel, February 22-23, 2017, Tehran, Iran. **(In Persian)**
- 172. Esmaeili, N and Abedi, K**, “Analytical Method for Estimation of Shear Capacity of Steel Sheathed Cold-Formed Shear Walls”, 10th National Congress on Civil Engineering, April 19-20, 2017, Sharif University of Technology, Tehran, Iran. **(In Persian)**
- 173. Poursharifi, M, M, Abedi, K and Chenaghlou, M R**, “Parametric Study on the Effects of Accordion Force Limiting Device on the Stability Behavior of Double-Layer Grids”, 10th National Congress on Civil Engineering, April 19-20, 2017, Sharif University of Technology, Tehran, Iran. **(In Persian)**
- 174. MirzaAghazadeh, K, Abedi, K and Shekastehband, B**, “Investigation into the Compatible Self-Stress States of Cable-Strut Space Structures with DP Simplexes”, 10th National Congress on Civil Engineering, April 19-20, 2017, Sharif University of Technology, Tehran, Iran. **(In Persian)**
- 175. Poursharifi, M, M, Abedi, K and Chenaghlou, M R**, “Experimental and Numerical Study on the Collapse Behavior of an All-Steel Accordion Force Limiting Device”, Eurosteel 2017, September 13-15, 2017, Copenhagen, Denmark.
- 176. Pourkhorshidi, S and Abedi, K**, “Stability Behavior of Graded Dented Cylindrical Shells under the Action of Combined External and Axial Pressure”, Eurosteel 2017, September 13-15, 2017, Copenhagen, Denmark.
- 177. Kheirollahi, M, Ch. Basim, M, Chenaghlou, M R and Karim Abedi**, “The Influence of Random Geometric Imperfection on the Dynamic Stability Behavior of Double-Layer Barrel Vault Roof with Vertical Double-Layer Walls under Seismic Excitation”, IASS 2017, September 25-28, 2017, Hamburg, Germany.
- 178. Kheirollahi, M, Abedi, K and Chenaghlou, M R**, “Loading Patterns for the Estimation of Seismic Response of Double-Layer Barrel Vaults with Vertical Double-Layer Walls”, IASS2017, September 25-28, 2017, Hamburg, Germany.
- 179. MirzaAghazadeh, K, Abedi, K and Shekastehband, B**, “Investigation into the Instability Behavior of Cable-Strut Barrel Vault Space Structures with DP Simplex”, IASS2017, September 25-28, 2017, Hamburg, Germany.

- 180. Poursharifi, M, M, Abedi, K and Chenaghlou, M R**, “Investigation on Effect of Core Wave Length in Accordion Force Limiting Device”, 8th National Conference on Steel & Structure, January 30-31, 2018, Tehran, Iran.
- 181. Ahmadnia, Y, Abedi, K and Chenaghlou, M R**, “Investigation into the Stability Behavior of Double-Layer Double Domes Free Form Space Structures”, 11th International Congress on Civil Engineering, May 8-10, 2018, University of Tehran, Tehran, Iran.
- 182. Kheirollahi, M, Abedi, K and Chenaghlou, M R**, “Validation of Conventional and Enhanced Pushover Analyses in Double-Layer Barrel Vaults with Vertical Double-Layer Walls Through Incremental Dynamic Analysis”, 11th International Congress on Civil Engineering, May 8-10, 2018, University of Tehran, Tehran, Iran.
- 183. MirzaAghazadeh, K, Abedi, K and Shekastehband, B**, “Investigation into the Instability Behavior of DP Cable-Strut Barrel Vault Space Structures due to Buckling of Struts”, 11th International Congress on Civil Engineering, May 8-10, 2018, University of Tehran, Tehran, Iran.
- 184. Khalili, R, Poursha, M and Abedi, K**, “Investigation into the Seismic Behavior of Single-Layer Barrel Vault Space Structures under the Horizontal component of Earthquake and Extraction of Modification Factors”, 11th International Congress on Civil Engineering, May 8-10, 2018, University of Tehran, Tehran, Iran. **(In Persian)**
- 185. Abedi, K, and Roshandel Kolachahi, S**, “Investigation into the Double-Layer Barrel Vault Space Structures Resistance to Progressive Collapse” The 6th International Conference on Integrity-Reliability-Failure, 22-26 July 2018, Lisbon, Portugal.
- 186. Kheirollahi, M, Abedi, K, and Chenaghlou, M R**, “An Investigation on the Accuracy of Pushover analyses for Predicting the Seismic Responses of Double-Layer Barrel Vaults with Vertical Double-Layer Walls”, The First National Conference on Infrastructure Engineering, 10-11 October 2018, Urmia University, Urmia, Iran. **(In Persian)**
- 187. Valinezhad, M and Abedi, K**, “Investigation into the Stability Behavior of Single-Layer Triple Domes Free Form Space Structures with Triangular Innovative Transformation under the Symmetric Snow Loading”, The First National Conference on Infrastructure Engineering, 10-11 October 2018, Urmia University, Urmia, Iran. **(In Persian)**

- 188. Sarmasti, H, Abedi, K and Chenaghlou, M R**, “Investigation into the Stability of Electric Transmission Tower under the Wind Loading”, The First National Conference on Infrastructure Engineering, 10-11 October 2018, Urmia University, Urmia, Iran. **(In Persian)**
- 189. Kheirollahi, M, Abedi, K and Chenaghlou, M R**, “Collapse Behavior Evaluation of Double-Layer Barrel Vault Roofs with Double-Layer Vertical Walls subjected to three Directional Ground Motions”, 11th National Congress on Civil Engineering, April 24-25, 2019, Shiraz University, Shiraz, Iran.
- 190. Khalili, R, Poursha, M and Abedi, K**, “Evaluation of Displacement Modification Factor of Single-Layer Barrel Vault Space Structures under the Horizontal component of Earthquake”, 11th National Congress on Civil Engineering, April 24-25, 2019, Shiraz University, Shiraz, Iran. **(In Persian)**
- 191. Amiri, V, Abedi, K, and Akbari Hamed, A**, “Numerical Investigation into the Behavior of Corrugated Steel Shear Wall Retrofitted by CFRP Layers, Considering the De-bonding between Steel and CFRP”, 11th National Congress on Civil Engineering, April 24-25, 2019, Shiraz University, Shiraz, Iran. **(In Persian)**
- 192. Ahmadnia, Y, Abedi, K and Chenaghlou, M R**, “Study of the Stability Behavior of Double-Layer Double Domes Free Form Space Structures”, 11th National Congress on Civil Engineering, April 24-25, 2019, Shiraz University, Shiraz, Iran. **(In Persian)**
- 193. Taheri, M, Chenaghlou, M R and Abedi, K**, “Investigation into the Stability Behavior of Single-Layer Braced Domes with Bolt-Column Semi-Rigid Connection”, 11th National Congress on Civil Engineering, April 24-25, 2019, Shiraz University, Shiraz, Iran. **(In Persian)**
- 194. Asghari, R, Abedi, K and Chenaghlou, M R**, “Form-finding and Structural Modification of a Hybrid Cable-Strut System”, IASS2019, October 7-10, 2019, Barcelona, Spain.
- 195. Kheirollahi, M, Abedi, K and Chenaghlou, M R**, “Seismic Evaluation of Double-Layer Space Structures (DLSS) Using Conventional and Enhanced Pushover Analysis Methods”, 12th National Congress on Civil Engineering, May 27-29, 2020, Sahand University of Technology, Tabriz, Iran.
- 196. Kheirollahi, M, Abedi, K and Chenaghlou, M R**, “Numerical and Experimental Study on the Collapse Behavior of Proposed Buckling-Controlled

Member in Double-Layer Space Structures”, 12th National Congress on Civil Engineering, May 27-29, 2020, Sahand University of Technology, Tabriz, Iran. **(In Persian)**

197. Vahidi, N and Abedi, K, “Investigation into the Effects of Lack of Fit Imperfection on the Stability Behavior of Double-Layer Barrel Vault Structures under the Asymmetric Snow Loading”, 12th National Congress on Civil Engineering, May 27-29, 2020, Sahand University of Technology, Tabriz, Iran. **(In Persian)**

198. Amiri, V, Akbari Hamed, A and Abedi, K, “Numerical Investigation into the Behavior of Corrugated Steel Shear Wall Panels with Concentrically Braced Frames”, 12th National Congress on Civil Engineering, May 27-29, 2020, Sahand University of Technology, Tabriz, Iran. **(In Persian)**

199. Tofighi Esfahlan, H and Abedi, K, “Introducing a New Multi-Layered Arrangement of Diagrid System in Tall Buildings”, 12th National Congress on Civil Engineering, May 27-29, 2020, Sahand University of Technology, Tabriz, Iran. **(In Persian)**

200. Matinpour, M H, Abedi, K and Shekastehband, B, “Effects of New Forms of Out-of-Plane Cables on the Instability Behavior of Cable-Stiffened Single-Layer Latticed Barrel Vaults”, 12th International Congress on Civil Engineering, July 12-14, 2021, Ferdowsi University of Mashhad, Mashhad, Iran.

201. Talebi, S, Abedi, K and Shekastehband, B, “Investigation into the Collapse Behavior of Horn-Shaped Tensegrity-Membrane Structure under the Wind Loading”, 12th International Congress on Civil Engineering, July 12-14, 2021, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**

202. Shaki, J, and Abedi, K, “Dynamic Instability Analysis of Industrial Buildings with Double-Layer Grid Roofs and Double-Layer Vertical Walls Subjected to Impulsive Loadings”, 12th International Congress on Civil Engineering, July 12-14, 2021, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**

203. Amiri, V, Akbari Hamed, A. and Abedi, K, “Experimental and Numerical Investigation into the Behavior of Semi-Supported Corrugated Steel Shear Panels”, 12th International Congress on Civil Engineering, July 12-14, 2021, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**

204. Aghani, K, Afshin, H and Abedi, K, “Numerical Investigation into the Long-Term Behavior of Reinforced Concrete Beams with Pre-Stressed FRP Sheets”, 12th

International Congress on Civil Engineering, July 12-14, 2021, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**

205. Asghari, R, Abedi, K, Chenaghlou, M R and Shekastehband, B, “Determination of the Appropriate Geometric Form and Investigation into Collapse Behavior of a New Hybrid Cable-Strut Structure”, 12th International Congress on Civil Engineering, July 12-14, 2021, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**

206. Sarmasti, H, Abedi, K and Chenaghlou, M R, “Investigation into the Stability of the Transmission Lines under Simultaneous Wind Load and Ice Shedding”, 12th International Congress on Civil Engineering, July 12-14, 2021, Ferdowsi University of Mashhad, Mashhad, Iran. **(In Persian)**

207. Ahmadnia, Y, Abedi, K and Chenaghlou, M R, “Investigation into the Stability Behavior and Progressive Collapse of Double Dome Double Layer Free Form Space Structures”, IASS2020/21-Surrey7, August 23-27, 2021, Surrey, England.

208. Sarmasti, H, Abedi, K and Chenaghlou, M R, “Stability Analysis of Transmission Line under Wind Load”, IASS2020/21-Surrey7, August 23-27, 2021, Surrey, England.

209. Matinpour, M H, Abedi, K and Shekastehband, B, “Investigation into the Instability and Collapse Behavior of Cable-Stiffened Single-Layer Latticed Barrel Vaults with Different Forms of out-of-plane Cables”, IASS2020/21-Surrey7, August 23-27, 2021, Surrey, England.

210. Khalili, R, Abedi, K and Poursha, M, “Seismic Behavior Factor of Single-Layer Barrel Vaults”, IASS2020/21-Surrey7, August 23-27, 2021, Surrey, England.

211. Taheri, M, Chenaghlou, M R and Abedi, K, “The investigation into the Stability Behavior of Single-Layer Braced Domes with Bolt-Column Joints”, IASS2020/21-Surrey7, August 23-27, 2021, Surrey, England.

212. Esmailnejad, H, Chenaghlou, M R and Abedi, K, “Connection Orientation Calculation in Single-Layer Lattice Space Structures Using Formex Algebra”, IASS2020/21-Surrey7, August 23-27, 2021, Surrey, England.

213. Esmailnejad, H, Chenaghlou, M R and Abedi, K, “Connection Geometry Evaluation in Free Form Space Structures”, IASS2020/21-Surrey7, August 23-27, 2021, Surrey, England.

- 214. Shaki, J, and Abedi, K**, “Dynamic Instability Analysis of Industrial Buildings with Double-Layer Grid Roofs and Double-Layer Vertical Walls Subjected to Industrial Machinery Loadings”, 13th National Congress on Civil Engineering, May 10-12, 2022, Isfahan University of Technology, Isfahan, Iran. **(In Persian)**
- 215. Heidarian, P, Abedi, K and Poursha, M**, “Investigation into Behavior of Double-Layer Barrel Vault Space Structures under Earthquake Loading and Extraction of Modification Factors of Seismic Responses”, 13th National Congress on Civil Engineering, May 10-12, 2022, Isfahan University of Technology, Isfahan, Iran. **(In Persian)**
- 216. Asghari, R, Abedi, K, Chenaghlou, M R and Shekastehband, B**, “Investigation into the Stability Behavior of a New Hybrid Cable-Strut Structure with Force Limiting Device (FLD)”, 13th National Congress on Civil Engineering, May 10-12, 2022, Isfahan University of Technology, Isfahan, Iran. **(In Persian)**
- 217. Matinpour, M H, Abedi, K and Shekastehband, B**, “Instability Behavior of Cable-Stiffened Single-Layer Latticed Barrel Vaults with New Form of out-of-plane Cables”, 13th National Congress on Civil Engineering, May 10-12, 2022, Isfahan University of Technology, Isfahan, Iran. **(In Persian)**
- 218. Abedi, K, Asghari, R, Chenaghlou, M R and Shekastehband**, “A Parametric Study on the Instability Behavior of a New Hybrid Cable Dome”, IASS2022, September 19-23, 2022, Beijing, China.
- 219. Abedi, K, and Shaki J**, “Dynamic Instability Analysis of Industrial Buildings with Flat Double Layer Grid Floors and Walls under Impact Loading”, IASS2022, September 19-23, 2022, Beijing, China.
- 220. Poursha, M, Abedi, K, Jafarzadeh, H, Heidarian, P and Abdollahi, A**, “Investigation into the Seismic Behavior of Space Structures and Extraction of Modification Factor of Seismic Responses”, IASS2022, September 19-23, 2022, Beijing, China.
- 221. Jafarzadeh, H, Abedi, K and Poursha, M**, “Modification Factors of Seismic Responses of Double-Layer Dome Space Structures”, 13th International Congress on Civil Engineering, October 17-19, 2023, Iran University of Science and Technology, Tehran, Iran. **(In Persian)**
- 222. Abdollahi, A, Abedi, K, and Poursha, M**, “Modification Factors of Seismic Responses of Single-Layer Dome Space Structures in Horizontal and Vertical

Directions Using Three Translational Components of Acceleration of Earthquake Records”, 13th International Congress on Civil Engineering, October 17-19, 2023, Iran University of Science and Technology, Tehran, Iran. **(In Persian)**

223. Asghari, R, Abedi, K, Chenaghlou, M R and Shekastehband, B, “Progressive Collapse Resistant Design of Hybrid Cable Domes Using Alternate Path Method”, 13th International Congress on Civil Engineering, October 17-19, 2023, Iran University of Science and Technology, Tehran, Iran.

224. Poursha, M, Abedi, K, Jafarzadeh, H, Heidarian, P and Abdollahi, A, “Seismic response modification factors of space structures in the horizontal and vertical directions”, IASS2023, 10 – 14 July 2023, Melbourne, Australia.

225. Aghani, K, Afshin, H, and Abedi, K, “Numerical Evaluation of Strengthening of Reinforced Concrete Beams with Prestressed Fiber-reinforced Polymers”, 14th National Congress on Civil Engineering, June 11-12, 2024, Zanzan University, Janjan, Iran. **(In Persian)**

226. Beyrami, V, Abedi, K and Charkhtab Basim, M, “Probabilistic Investigation into the Effects of Lack of Fit Imperfection of Members on the Stability Behavior of Double-Layer Barrel Vault Space Structures”, 14th National Congress on Civil Engineering, June 11-12, 2024, Zanzan University, Janjan, Iran. **(In Persian)**

227. HassanNezhad, F and Abedi, K, “Progressive Collapse Resistant Design of Double-Layer Space Structures with Double-Layer Vertical Walls Using the Alternative Path Method” 14th National Congress on Civil Engineering, June 11-12, 2024, Zanzan University, Janjan, Iran. **(In Persian)**

228. Zekavati, A, Abedi, K, Chenaghlou, M and Charkhtab Basim, M, “Investigation into the Effects of Imperfections on the Collapse Behavior of Angle Sections under Compression Force in Lattice Transmission Towers”, 14th National Congress on Civil Engineering, June 11-12, 2024, Zanzan University, Janjan, Iran. **(In Persian)**

229. Abedi, K, HassanNezhad, F and Kheirollahi, M, “Investigation into the Progressive Collapse of Double-Layer Space Structures with Double-Layer Vertical Walls using the Alternative Path Method”, IASS2024, 26 – 30 August 2024, Zurich, Switzerland.

230. Asghari, R, Abedi, K, Chenaghlou, M R and Shekastehband, B, “Modifying

the Configuration and Members of Hybrid Cable Dome to mitigate the Progressive Collapse”, IASS2024, 26 – 30 August 2024, Zurich, Switzerland.

231. Sobhi, A, Esmailnejad, H, Chenaghlou, M R and Abedi, K, “The Effect of Minimized Orientation of Members in Connections on the Structural Behavior of Free-Form Lattice Space Structures”, IASS2024, 26 – 30 August 2024, Zurich, Switzerland.

Supervised Ph. D Theses

۱. بررسی خرابی پیشرونده در سازه های فضاکار شبکه ای دولایه (به عنوان استاد مشاور)

An Investigation into the Progressive Collapse of Double-Layer Grid Space Structures, July 2001.

۲. بررسی رفتار دینامیکی سد بتنی وزنی با در نظر گرفتن اندرکنش سد- مخزن - رسوب با

استفاده از روش عناصر محدود (مشترک با دکتر قره باغی)

Dynamic Analysis of Concrete Gravity Dams Considering Dam-Reservoir-Sediment Interaction Using Finite Element Method, January 2011.

۳. انتشار دینامیکی خرابی موضعی در سیستم های کش بستی (مشترک با دکتر چناقلو)

Dynamic Propagation of Local Collapse in Tensegrity Systems, December 2011.

۴. کنترل شکل و ارتعاش سازه های غشایی مرکب هوشمند (مشترک با دکتر چناقلو)

Shape and Vibration Control of Smart Membrane Structures, November 2012.

۵. بررسی رفتار سازه های فضاکار چلیکی در برابر خرابی پیشرونده (مشترک با دکتر تقی زاده)

An Investigation into the Progressive Collapse of Barrel Vault Space Structures, March 2013.

۶. آنالیز ارتجاعی تیرهای جدارنازک با هسته برشی به روش دقیق و کاربرد آن در آنالیز سازه

های ساختمانی نامنظم (مشترک با دکتر رافضی)

Elastic Analysis of Thin-Walled Beams with Shear Core, Using Exact Method and Its Application in the Analysis of Irregular Structures, May 2013.

۷. برآورد پارامترهای طراحی لرزه ای قاب های خمشی مرکب (ستون بتن مسلح - تیر فولادی)

(مشترک با دکتر چناقلو)

Estimation of Seismic Design Parameters of Special Composite Moment Frames

(Reinforced Concrete Columns – Steel Beams), January 2014.

۸. بررسی رفتار پایداری سازه های فضاکار مشبک فرم آزاد دوگنبدی (مشترک با دکتر چناقلو)

Investigation into the Stability Behavior of Double-Domes Free-Form Reticulated Space Structures, September 2015.

۹. مطالعه عددی و آزمایشگاهی پانل های دیوار برشی فولادی سرد شکل دهی شده با پوشش

فولادی برای بهبود عملکرد لرزه ای سازه ها (مشترک با دکتر رافضی)

The Numerical and Experimental Study of Steel Sheathed Cold-Formed Steel Shear Wall Panels for Seismic Protection of Structures, June 2016.

۱۰. مقاوم سازی ستون های بتن مسلح پل با کاربرد همزمان پروفیل های فولادی و پوشش

CFRP (مشترک با دکتر افشین)

Seismic Retrofitting of RC Bridge Columns Using Hybrid Application of Steel Profiles and CFRP Wraps, January 2020.

۱۱. تاثیر پوشش های بتن پودری واکنش پذیر (RPC) در مقاومت خمشی تیر های بتن مسلح

تحت بار های استاتیکی (مشترک با دکتر افشین)

The Effect of the Reactive Powder Concrete Covers on the Flexural Strength of the RC Beams under Static Flexural Loads, January 2020.

۱۲. کنترل پایداری سازه های فضاکار دولایه چلیکی با ابزار محدودگر نیروی جدید (با الهام از

BRB) (مشترک با دکتر چناقلو)

Stability Analysis of Double-Layer Barrel Vaults Equipped with Novel Force Limiting Device (Inspired by BRB), June 2020.

۱۳. بررسی پایداری و رفتار لرزه ای چلیک های دولایه با دیوارهای عمودی دولایه (مشترک با دکتر

چناقلو)

The Evaluation of Stability and Seismic Behavior of Double-Layer Barrel Vaults with Vertical Double-Layer Walls, February 2021.

۱۴. بررسی خرابی پیشرونده خطوط انتقال نیرو تحت اثر باد (مشترک با دکتر چناقلو)

Investigation into Progressive Collapse of Transmission Lines under Wind Load, April 2022.

۱۵. بررسی رفتار خرابی پیشرونده ی گنبد کابلی لوی با یک فرم ترکیبی جدید (مشترک با دکتر

چناقلو)

Investigation into the Progressive Collapse Behavior of Levy Cable Dome with a New Hybrid Form, September 2022.

۱۶. بررسی آزمایشگاهی و عددی رفتار پانل‌های برشی فولادی موج‌دار دوزنقه‌ای با مهاربندی

همگرا (مشترک با دکتر اکبری حامد)

Experimental and Numerical Investigation into the Behavior of Corrugated Steel Plate Shear Panels with Concentrically Braced Frames, September 2023.

۱۷. بررسی رفتار تیرهای بتنی مقاوم‌سازی شده با CFRP پیش‌تنیده با در نظرگیری اتلاف‌های

ناشی از خزش (مشترک با دکتر افشین)

Investigation into the Flexural Behavior of Concrete T Beams Strengthened with Pre-Stressed CFRP Considering Creep Losses, August 2024.

Supervised M. Sc Theses

۱. تحلیل ناپایداری دینامیکی ساختمان‌های صنعتی تحت اثر بارهای ضربه‌ای

Dynamic Instability Analysis of Industrial Buildings Subjected to the Impulsive Loading, November 2001.

۱. بررسی خرابی پیش‌رونده در قاب‌های فضایی (مشترک با دکتر چناقلو)

Investigation into the Progressive Collapse Behavior of Space Steel Frames, February 2002.

۲. فرمول بندی لاگرانژی برای تحلیل غیر خطی هندسی اعضای خمشی

Lagrangian Formulation for Geometrically Nonlinear Analysis of Bending Elements, August 2002.

۳. ناپایداری دینامیکی سازه‌های چلیکی تک لایه تحت بارهای زلزله (مشترک با دکتر چناقلو)

Dynamic Instability Analysis of Single-Layer Barrel Vaults Subjected to the

Earthquake Loading, August 2002.

۴. بررسی رفتار یک مقطع جدید برای ستون‌های فولادی پر شده با بتن (مشترک با دکتر افشین)

Investigation into the Behavior of a Novel Steel Section Used for Concrete Filled Tubular Columns, August 2002.

۵. مطالعه پایداری ستون‌های فولادی توخالی پر شده از بتن

Investigation into the Stability Behavior of Concrete Filled Tubular Columns, September 2002.

۶. طراحی اتصال نیامی سازه‌های فضاکار از چدن استمپر شده ADI (مشترک با دکتر چناقلو)

Design of Socket Joint in Space Structures Using Austempered Ductile Iron (ADI), July 2003.

۷. بررسی رفتار تیر رابط در قاب‌های فولادی با مهاربند غیر هم مرکز

Investigation into the Behavior of Link Beam in EBF Steel Frames, September 2003.

۸. بررسی رفتار ناپایداری سازه‌های فضاکار کش بستی

Investigation into the Instability Behavior of Tensegrity Space Structures, March 200۴.

۹. رفتار خرابی دیوارهای برشی فولادی (مشترک با دکتر چناقلو)

Collapse Behavior of Steel Shear Walls, April 2004.

۱۰. تحلیل ناپایداری استاتیکی سازه‌های فضاکار تاشوی سازگار با المان‌های قیچی سان (مشترک

با دکتر چناقلو)

Instability Analysis of Compatible Foldable Space Structures Consisted of Scissor-Like Elements, March 2005.

۱۱. بررسی رفتار کمانشی و پس کمانشی پوسته‌های استوانه‌ای جدارنازک با ضخامت متغیر در

معرض فشار یکنواخت بیرونی (مشترک با دکتر شوکتی)

Investigation into the Buckling and Post-Buckling Behavior of Cylindrical Shells with Varying Thickness under External Pressure, March 2005.

۱۲. بررسی رفتار دو نوع اتصال تیر-ستون CFT با سخت‌کننده‌های داخلی تحت بارگذاری چرخه‌ای

Investigation into the Behavior of Two Types of CFT Connections with Internal Stiffeners under Cyclic Loading, August 2005.

۱۳. تحلیل رفتاری شمع‌های دریایی خورده شده مرمت یافته با استفاده از مواد کامپوزیتی

Performance Analysis of Retrofitted Corroded Marine Piles with CFRP, September 2005.

۱۴. بررسی تاثیر میراگر ستون مایع تنظیم شده فعال در پاسخ لرزه ای سازه های بلند (مشترک با

دکتر چناقلو)

Investigation of Efficiency of Active Tuned Liquid Column Damper on Seismic Response of Tall Structures, October 2005.

۱۵. بررسی اثر رفتار اتصال نیامی از چدن **ADI** بر روی رفتار شبکه های فضاکار دولایه (مشترک با

دکتر چناقلو)

Investigation into the Effects of Austempered Ductile Socket Joint on the Behavior of Double Layer Grid, December 2005.

۱۶. بررسی مسئله انتشار کمانش در خطوط لوله دریایی با توجه به اثر سیال داخلی (مشترک با دکتر

قره باغی)

Investigation into the Buckle Propagation in Offshore Pipelines with Effect of Pipe Inner Flow, December 2005.

۱۷. بررسی رفتار خرابی دیوار برشی فولادی تحت اثر بارگذاری چرخه ای

Investigation into the Collapse Behavior of Steel Shear Walls under Cyclic Loading, May 2006.

۱۸. بررسی رفتار خرابی دیوارهای برشی فولادی در ساختمان های مرتفع تحت اثر بار جانبی و

ثقلی

Investigation into the Collapse Behavior of Steel Shear Walls in Tall Buildings under Vertical and Horizontal Loading, September 2006.

۱۹. بررسی رفتار لرزه ای اسکله صندوقه ای با احتساب اندر کنش آب- خاک سازه (مشترک با دکتر

قره باغی)

Study of Seismic Performance of Caisson-Type Quay Wall Including Soil-Sea-Structure Interaction, October 2006.

۲۰. رفتار سازه ای ستون های دوجداره فولادی پر شده با بتن (**CFDST**) (مشترک با دکتر چناقلو)

Investigation into the Behavior of Concrete-Filled Double Skin Steel Tubular (CFDST) Columns, November 2006.

۲۱. بررسی رفتار ناپایداری سازه های فضاکار گنبدی کش بستی

Investigation into the Instability Behavior of Tensegrity Dome-Shaped Space Structures, December 2006.

۲۲. بررسی رفتار خرابی دیوار برشی فولادی بازشودار (مشترک با دکتر چناقلو)

Investigation into the Collapse Behavior of Steel Shear Wall with Opening, February 2007.

۲۳. بررسی پایداری استاتیکی سازه های تخت فضاکار کش بستی ناپیوسته عضو فشاری (مشترک با

دکتر شیدایی)

Investigation into the Statically Stability Behavior of Non-Continuous Strut Tensegrity, February 2007.

۲۴. بررسی پایداری گنبد های فضاکار کش بستی تحت اثر باد (به عنوان استاد مشاور)

Stability Study of Tensegrity Domes under Wind Loading, July 2007.

۲۵. بررسی رفتار ستون های فولادی پر شده با بتن و تقویت شده با مقطع فولادی (SR-CFT)

Investigation into the Behavior of Steel-Reinforced Concrete Filled Steel Tubular Columns (SR-CFT, July 2007.

۲۶. بررسی رفتار ناپایداری شبکه های دولایه کش بستی

Investigation into the Instability Behavior of Double-Layer Tensegrity Grids, October 2007.

۲۷. بررسی اندرکنش ورق و قاب در قاب فولادی مقاوم سازی شده با دیوار برشی فولادی (مشترک

با دکتر چناقلو)

Investigation into the Plate-Frame Interaction in Steel Frames Retrofitted by Steel Plate Shear Wall (SPSW), November 2007.

۲۸. مقاوم سازی لرزه ای ستون های بتن مسلح با استفاده از روکش های فولادی بهبود یافته

(مشترک با دکتر افشین)

Seismic Retrofitting of Reinforced Concrete Bridge Columns Using Rectified Steel Jackets, January 2008.

۲۹. بررسی رفتار ستون های CFT مسلح شده با الیاف فولادی (SFRCFT) (مشترک با دکتر

افشین)

Investigation into the Behavior of CFT Columns Reinforced with Steel Fibers

(SFRCFT), January 2008.

۳۰. تحلیل ناپایداری استاتیکی سازه های فضاکار تاشوی ناسازگار تخت (مشترک با دکتر چناقلو)

Instability Analysis of Incompatible Deployable Flat Space Structures, April 2008,

۳۱. مطالعه رفتار کمانشی و پس کمانشی مخازن استوانه ای با ضخامت متغیر در معرض بارهای

فشاری جانبی، فشاری محوری و ترکیبی

Investigation of Buckling and Post-Buckling Behavior of Cylindrical Reservoirs under External Pressure, axial Compression, and Combined Loading, July 2008.

۳۲. مدل سازی عددی رفتار پیچ سنگ مخروطی تحت بار دینامیکی ضربه ای (مشترک با دکتر

فردوسی)

Numerical Modeling of Cone Bolt under Impact Dynamic Loading, August 2008.

۳۳. بررسی تاثیر پارامترهای موثر در رفتار خرابی دیوار برشی فولادی به کار رفته در ساختمان های

بلند (مشترک با دکتر چناقلو)

Investigation into the Effects of Main Parameters on the Behavior of Steel Shear Walls in Tall Buildings, September 2008.

۳۴. بررسی رفتار تجربی کمانشی پوسته های استوانه ای با ضخامت متغیر تحت بار

ترکیبی فشار محوری و فشار خارجی (مشترک با دکتر شوکتی)

Experimental Study on the Buckling Behavior of Thin-walled Cylindrical Shells with Varying Thickness under Axial Compression and External Pressure, March 2009.

۳۵. بررسی پدیده انتشار کمانش دینامیکی در خطوط لوله دریایی تحت فشار هیدرواستاتیک

خارجی (مشترک با دکتر قره باغی)

Investigation into the Dynamic Buckle Propagation in Offshore Pipelines under Hydrostatic Pressure, April 2009.

۳۶. بررسی رفتار ناپایداری سازه های فضاکار Cable-Strut (CP)

Investigation into the Instability Behavior of Cable-Strut (CP) Grids of Space Structures, June 2009.

۳۷. بررسی اثرات خطای ساخت اعضا در ظرفیت باربری و رفتار خرابی شبکه های دولایه فضاکار

(مشترک با دکتر شیدایی)

Investigation into the Effects of Member Manufacture Error on the Load Carrying

Capacity and Collapse Behavior of Double-Layer Space Grids, October 2009.

۳۸. تحلیل دینامیکی خط ۱ مترو تبریز به روش عددی و تحلیلی (مشارکت با دکتر فردوسی)

Dynamic Analysis of First Line of Tabriz Subway Tunnel Using Numerical and Analytical Methods, February 2010.

۳۹. بررسی رفتار دیوارهای برشی فولادی بازشودار و بدون بازشو با سخت کننده ها

Investigation into the Behavior of Stiffened Steel Shear Walls with and without Opening, September 2010.

۴۰. بررسی آزمایشگاهی رفتار لوله های روی بستر ثابت تحت ارتعاشات ناشی از تشکیل گردابه بر

اثر عبور جریان ماندگار (مشارکت با دکتر قره باغی)

Experimental Study of Vortex-Induced Vibrations of Subsea Pipelines near a Rigid Bed in Steady Current, October 2010.

۴۱. مقاوم سازی لرزه ای اتصالات قاب های بتن مسلح با استفاده از روکش های فولادی بهبود یافته

(مشارکت با دکتر افشین)

Seismic Retrofitting of Reinforced Concrete Beam-Column Connections Using Rectified Steel Jackets, October 2010.

۴۲. بررسی رفتار لرزه ای شبکه های دولایه تخت کش بستی (مشارکت با دکتر چناقلو)

Investigation into the Seismic Behavior of Flat Tensegrity Space Structures, November 2010.

۴۳. رفتار ناپایداری سازه های چلیکی کش بستی مدولار و غیر مدولار

Instability Behavior of Modular and Non-modular Barrel Vault Tensegrity Structures, February 2011.

۴۴. مطالعه پارامتری روی اثرات کمانش گیرها در انتشار دینامیکی کمانش در خطوط لوله دریایی

(مشارکت با دکتر قره-باغی)

Parametric Investigation into the Effects of Buckle Arrestors on the Arresting of Dynamic Buckle Propagation in Pipelines, February 2011.

۴۵. بهسازی لرزه ای ستون های دایره ای بتن مسلح پل ها با استفاده از جاکت های بتنی، فولادی و

FRP و مقایسه رفتارهای حاصل (مشارکت با دکتر افشین)

Comparative Investigation into the Seismic Retrofitting of Circular Reinforced Concrete Bridge Columns Using FRP, Concrete and Steel Jackets, February 2011.

۴۶. تعیین مکانیزم جمع شدگی سیستم نگهدارنده اولیه تونل های قطعه چهارم راه آهن اصفهان -

شیراز (مشترک با دکترستاروند)

Analysis of Initial Support Deformation at Esfahan-Shiraz Railway Tunnel-Lot 4, February 2011.

۴۷. بررسی رفتار ستون های فولادی پر شده با بتن (CFT) تحت تاثیر آتش و پارامترهای موثر بر

آن

Investigation into the Behavior of Concrete-Filled Steel Tubular (CFT) Columns under Fire and Other Effective Parameters, March 2011.

۴۸. مطالعه تاثیر خزش بر رفتار ستون های فولادی پر شده با بتن تحت بار چرخه ای (مشترک با

دکتر افشین)

Investigation into the Effects of Creep on the Behavior of Concrete-Filled Steel Tubular (CFT) Columns Subjected to the Cyclic Loading, July 2011.

۴۹. بررسی عملکرد لرزه ای دیوارهای برشی فولادی در سازه های بلند (مشترک با دکتر پورشاء)

Investigation into the Seismic Performance of Steel Shear Wall Systems in Tall Buildings, September 2011.

۵۰. رفتار ناپایداری دینامیکی شبکه های دولایه فضاکار تحت بارهای ضربه ای

Investigation into the Dynamic Instability Behavior of Double-Layer Grids Subjected to Impulsive Loading, October 2011.

۵۱. بررسی آزمایشگاهی رفتار خطوط لوله زیردریایی روی بستر فرسایشی تحت ارتعاشات ناشی

از گردابه ها در اثر عبور جریان ماندگار (مشترک با دکتر قره باغی)

Experimental Study of Vortex-Induced Vibrations (VIVs) of Marine Pipelines Near an Erodible Bed in Steady Current, September 2012.

۵۲. مقاوم سازی تیرهای بتن آرمه در برابر بار ضربه ای ناشی از برخورد پرتابه با استفاده از

کامپوزیت FRP (مشترک با دکتر افشین)

Strengthening of Reinforced Concrete Beams Using FRP Composite under Impact Loading, October 2012.

۵۳. مقاوم سازی اعضای خمشی مجاور اتصال در سازه های بتن آرمه با استفاده از کامپوزیت FRP

(مشترک با دکتر افشین)

Retrofitting of RC Beams in the Connection Area by FRP, February 2013.

۵۴. مقاوم سازی اتصالات بتنی با پلیمرهای مسلح شده با **FRP** (مشترک با دکتر افشین)

Retrofitting of RC Connections by FRP, February 2013.

۵۵. بررسی تاثیر مصالح و سیال عامل فشار در طراحی کمانشی خطوط لوله دریایی و کمانش گیرها

(مشترک با دکتر قره باغی)

Investigation into the Effects of Material and the Fluid Responsible for Induced Pressure on the Buckling Design of Pipelines and Arrestors, March 2013.

۵۶. بررسی رفتار قاب های فولادی مقاوم سازی شده با دیوار برشی فولادی با مقاومت تسلیم پایین

در در ساختمان های بلند (مشترک با دکتر پورشاء)

Investigation into the Behavior of Steel Frames Retrofitted by Steel Plate Shear Walls with Low Yield Strength in Tall Buildings, October 2013.

۵۷. بررسی رفتار ستون های **CFT** تقویت شده با سخت کننده و ساخته شده از بتن با مقاومت

بالا در برابر آتش

Fire Behavior of High Strength Concrete-Filled Steel Tubular Columns with Stiffeners, October 2013.

۵۸. کاربرد **RPC** در سازه های مقاوم در برابر ضربه (مشترک با دکتر افشین)

Application of RPC (Reactive Powder Concrete) in Impact-Resistant Structures, October 2013.

۵۹. بررسی رفتار ستون های دو جداره فولادی پر شده با بتن (**CFTDST**) تحت اثر بارگذاری

چرخه ای (مشترک با دکتر چناقلو)

Investigation into the Behavior of Concrete-Filled Double Skin Steel Tubular (CFDST) Columns under Cyclic Loading, January 2014.

۶۰. مقاوم سازی لرزه ای ستون های بتن مسلح با استفاده از نوارهای فلزی پیش تنیده (محصول

سازی فعال (مشترک با دکتر افشین)

Seismic Retrofitting of Reinforced Concrete Columns Using External Pre-Stressed Steel Strips (Actively Confinement), February 2014.

۶۱. بررسی ناپایداری استاتیکی قاب های **RCS** بلند مرتبه در برابر نیروهای جانبی (مشترک با

دکتر چناقلو)

Instability Investigation of RCS Moment Frames under Lateral Loads, May 2014.

۶۲. بررسی آزمایشگاهی خطوط لوله دریایی روی بستر صلب، تحت ارتعاشات ناشی از گردابه در

اثر موج (به عنوان استاد مشاور)

Experimental Study of Vortex-Induced Vibration (VIVs) of Marine Pipelines near a Rigid Bed in Wave. September 2014.

۶۳. بررسی انتشار دینامیکی خرابی در سازه های فضاکار دولایه چلیکی

Investigation into Dynamic Progressive Collapse in Double-Layer Barrel Vault Space Structures, February 2015.

۶۴. مطالعه و بررسی مقاوم سازی اتصالات تیر به ستون بتن آرمه با کامپوزیت های FRP (مشترک

با دکتر افشین)

Retrofitting of RC Beam-Column Joints Using CFRP Composites, February 2015.

۶۵. بررسی تاثیر ناحیه اتصال بر رفتار لرزه ای مهاربندی های تمام فولاد مقاوم در برابر کمایش

An Investigation into the Effect of Connection Zone on the Seismic Behavior of All Steel Buckling Restrained Braces (BRBs), February 2015.

۶۶. بررسی ضرایب اصلاح پاسخ های لرزه ای در ساختمان های فولادی با سیستم مهاربندی واگرا

(مشترک با دکتر پورشاء)

Evaluation of Seismic Response Modification Factors of Eccentrically Braced Steel Structures, March 2015.

۶۷. بررسی رفتار پایداری سازه های فضاکار چلیکی تک لایه با در نظر گرفتن اثر لایه ها

Stability Analysis of Lattice Single-Layer Barrel Vaults Considering the Effects of Purlins, November 2015.

۶۸. بررسی اثر ناکاملی در طول اعضا (نامیزانی) در رفتار پایداری گنبد های دولایه

Investigation into the Effects of Member Length Imperfection (Lack-of-Fit) on the Stability Behavior of Double-Layer Braced Domes, December 2015.

۶۹. بررسی رفتار ستون های تقویت شده فولادی دوجداره پر شده با بتن (CFDST) تحت اثر

آتش (مشترک با دکتر شکسته بند)

Investigation into Stiffened Concrete Filled Double Skin Steel Tubular Columns under Fire, January 2016.

۷۰. بررسی پایداری گنبدهای دولایه اسکالپ

Investigation into the Stability Behavior of Double-Layer Scallop Domes, March 2016.

۷۱. تاثیر ناکاملی های هندسی در رفتار کمانشی و پس کمانشی مخازن استوانه ای با ضخامت

متغیر

The Effect of Dents on the Buckling and Post-buckling Behavior of Cylindrical Shells with Stepwise Variable Thickness, March 2016.

۷۲. بررسی رفتار سازه بلند از نوع دیاگرید در برابر بار جانبی (مشترک با دکتر چناقلو)

Investigation into the Behavior of Diagrid Tall building subjected to the Lateral Loads, February 2017.

۷۳. بررسی خرابی پیشرونده در سازه های فضاکار چلیکی دولایه به روش مسیر جایگزین

Investigation into the Progressive Collapse of Double-Layer Barrel Vault Space Structures Using Alternate Path Method, July 2017.

۷۴. بررسی ناپایداری سازه های فضاکار چلیکی Cable-Strut با سیپلکس های DP

Investigation into the Instability Behavior of Cable-Strut Barrel Vault Space Structures, Composed of DP Modules, January 2018.

۷۵. بررسی رفتار پایداری سازه های فضاکار فرم آزاد دوگنبدی دولایه (مشترک با دکتر چناقلو)

Investigation into the Stability Behavior of Double Domes Double-Layer Free Form Space Structures, March 2018.

۷۶. بررسی عددی پیوند بین دانه های خاک ماسه ای بهسازی شده به روش بیولوژیکی با استفاده

از روش اجزای گسسته (مشترک با دکتر امامی تبریزی)

Numerical Evaluation of Inter-Particle Bonding of Biologically Improved Sandy Soil by Discrete Element Method, February 2018.

۷۷. بررسی رفتار سازه های فضاکار چلیکی تک لایه تحت اثر بار زلزله و استخراج ضرایب اصلاح

پاسخ های لرزه ای (مشترک با دکتر پورشاء)

Investigation into the Seismic Behavior of Single-Layer Barrel Vault Space Structures and Extraction of Modification Factors of Seismic Responses, March 2018.

۷۸. بررسی پایداری سازه های فضاکار فرم آزاد سه گنبدی شبکه ای تک لایه

Investigation into the Stability Behavior of Single-Layer Triple Domes Free-Form Reticulated Space Structures, June 2018.

۷۹. بررسی خرابی پیشرونده در گنبد های معلق به روش مسیر جایگزین

Investigation into the Progressive Collapse of Suspen-Domes Using Alternate Path Method, September 2019.

۸۰. بررسی احتمالاتی تاثیر ناکاملی (نامیزانی اعضا) در رفتار پایداری گنبد های دولایه اسکالوپ

(مشترک با دکتر چرخاب بسیم)

Probabilistic Investigation into the Effects of Lack of Fit Imperfection of Members on the Stability Behavior of Double-Layer Scallop Domes, September 2019.

۸۱. بررسی رفتار پایداری گنبد های مشبک تک لایه با اتصالات نیمه صلب **Bolt-Column**

(مشترک با دکتر چناقلو)

Investigation into the Stability Behavior of Single-Layer Braced Domes with Bolt-Column Joints, January 2020.

۸۲. بررسی اثر ناکاملی در طول اعضا (نامیزانی اعضا) در رفتار پایداری سازه های فضاکار چلیکی

دولایه

Investigation into Effect of Member Length Imperfection (Lack of Fit) on the Stability Behavior of Double-Layer Barrel Vault Space Structures, January 2020.

۸۳. طراحی و نوآوری در اتصالات با زاویه آزاد برای فرم های آزاد سازه های فضاکار شبکه ای تک

لایه (مشترک با دکتر چناقلو)

Design and Innovation of Free Angle Connection for Single-Layer Free-Form Reticulated Space Structures, September 2020.

۸۴. تحلیل ناپایداری ساختمان های صنعتی با کف و دیوار شبکه دولایه فضاکار تحت اثر بارهای

ضربه ای

Dynamic Instability Analysis of Industrial Buildings with Flat Double Layer Grid Floors and Walls under Impact Loading, December 2021.

۸۵. بررسی رفتار سازه های فضاکار گنبدی تک لایه تحت اثر بار زلزله و استخراج ضرایب اصلاح

پاسخ های لرزه ای (مشترک با دکتر پورشا)

Investigation into the Seismic Behavior of Single-Layer Dome Space Structures and

Extraction of Modification Coefficients of Seismic Responses, September 2022.

۸۶. بررسی رفتار سازه های فضاکار چلیکی دولایه تحت اثر بار زلزله و استخراج ضرایب اصلاح

پاسخ های لرزه ای (مشترک با دکتر پورشا)

Investigation into the Seismic Behavior of double-layer barrel vault Space Structures and Extraction of Modification Coefficients of Seismic Responses, September 2022.

۸۷. بررسی اثر مدلسازی اتصالات بر پاسخ های سازه ای دیوارهای برشی فولادی (مشترک با دکتر

اکبری)

Investigation of the Effect of Connection Modeling on the Structural Responses of Steel Plate Shear Walls, September 2022.

۸۸. بررسی رفتار سازه های فضاکار گنبدی دولایه تحت اثر بار زلزله و استخراج ضرایب اصلاح

پاسخ های لرزه ای (مشترک با دکتر پورشا)

Investigation into the Seismic Behavior of Double-Layer Dome Space Structures and Extraction of Modification Coefficients of Seismic Responses, December 2022.

۸۹. بررسی رفتار پایداری سیستم های کابل دستکی Cable-Strut بر اثر تغییر در نحوه توزیع

خودتنیدگی

Investigation into the Stability Behavior of Cable-Strut Systems due to the Change in Distribution, of Self-Stress States, January 2023.

۹۰. تاثیر راستای بهینه اعضا در اتصالات بر رفتار سازه های فضاکار فرم آزاد (مشترک با دکتر

چناقلو)

The Effects of Optimized Member's Orientation in Connections on the Behavior of Free-form Space Structures, January 2023.

۹۱. بررسی خرابی پیشرونده در سازه های فضاکار اسکالپ به روش مسیر جایگزین

Investigation into the Progressive Collapse of Double-Layer Scallop Dome Structures Using Alternate Path Method, August 2023.

۹۲. بررسی احتمالاتی حساسیت نسبت به وجود ناکاملی در طول اعضا، در رفتار سازه های فضاکار

چلیکی دولایه (مشترک با دکتر چرختاب بسیم)

Probabilistic Investigation into the Effects of Lack of Fit Imperfection of Members on the Stability Behavior of Double-Layer Barrel Vault Space Structures, September

2023.

۹۳. مقابله با خرابی پیشرونده در سازه‌های فضاکار شبکه‌ای تخت دولایه دیوار و سقف به روش

مسیر جایگزین

Progressive collapse in the Wall and Ceiling of Double Layer Plane Space Structures
Using the Alternative Path Method, June 1403.

Research Projects

A) Finished Research Projects

1. Code of Practice for Skeletal Steel Space Structures, Journal No. 400, Office of Deputy for Strategic Supervision, Bureau of Technical Execution Systems, 2010.
(مشترک با اعضای کمیته تدوین آیین نامه سازه های فضاکار به سرپرستی آقای دکتر شاهرخ مالک)
2. Iranian Maritime Pipeline Design Guideline, Ministry of Road and Transportation, Transportation Research Institute, February 2011. (مشترک با دکتر قره باغی)

B) Supervised Research Projects

1. Construction of a System Similar to Masonry Barrel Vaults Using Lightweight High Strength Concrete, Management, and Planning Organization of East Azerbaijan, 2006. (مجری طرح: دکتر حسن افشین، همکار طرح: مهندس عادل فردوسی)
2. Fracture Criterion for Adhesively Bonded Double-Lap Joints, Sahand University of Technology, 2009. (مجری طرح: دکتر نقدعلی چوپانی)

Patents

1. Buckling-Restrained Compression Member with Accordion Pattern in Space Structures, December 2019. (مشترک با خانم مهندس مریم پورشریفی و دکتر محمدرضا چناقلو)
2. Buckling-Controlled Member in Double-Layer Reticulated Space Structures, February 2020. (مشترک با آقای مهندس خیراللهی و دکتر محمدرضا چناقلو)