

# Changhwan Lee

Associate Professor

Division of Architectural and Fire Protection Engineering

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## Professional Experiences

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- Associate Professor, Department of Architectural Engineering, Pukyong National University, 09/2022 – present
- Visiting Scholar, Department of Civil and Environmental Engineering at the FAMU-FSU College of Engineering, 08/2025 – present
- Assistant Professor, Department of Architectural Engineering, Pukyong National University, 03/2018 – 08/2022
- Group Leader, Dongyang Structural Engineers Co., Ltd., 02/2013 – 02/2018
- Associate, Dongyang Structural Engineers Co., Ltd., 02/2005 – 02/2010

## Research Interests

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- Retrofit and Rehabilitation of Existing Structures
- Performance-based Seismic Design and Seismic Assessment
- Composite Behavior; Utilization of Advanced Materials
- Tall Building Structural System & Design
- Sustainable Structural System & Green Technologies
- Structural Fire Performance Evaluation

## Education

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- Ph.D. in Civil, Environmental and Architectural Engineering (Structural Engineering), Korea University (Seoul, Korea), Feb 2015, Dissertation title: *Structural performance of SAFE Dampers combining shear-type friction damper and non-uniform steel strip damper*
- M.S. in Architectural Engineering (Structural Engineering), Korea University (Seoul, Korea), Feb 2005, Thesis title: *Experimental study on the seismic performance of steel-concrete composite column-H beam connection*

- B.S. in Architectural Engineering, Korea University (Seoul, Korea), Feb 2003

## Peer-Reviewed Journal Publications

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### *SCIE Indexed Journal Papers*

1. Kim, H. J., Lee, C.-H., Oh, J., & Park, M. J. (2026). Quantified post-fire stress-strain behavior of SS275 considering heating duration and load ratio, *Journal of Constructional Steel Research*, 236, 109946
2. Le, V. L., Jung, D. J., Lee, C.-H., & Park, M. J. (2025). Integrated Fire Resistance Analysis of Concrete-Filled Steel Tube Columns Under Standard Fire: Design Standards, Simulations, and Experimental Validation, *Fire Safety Journal*, 157, 104508
3. Kim, H. J., Lee, C.-H., Cho, Y., & Park, M. J. (2025). Post-fire residual yield strength and ultimate strength of structural steel SS275 considering load ratios, *Journal of Constructional Steel Research*, 234, 109745
4. Kim, H., Lee, C.-H., Choi, J.-H., Han, K.-H., Ha, T., & Park, M. J. (2025). Computational methodology for investigating the fire behavior of modular steel buildings using full-scale testing and coupled CFD-FEM analysis, *Fire Safety Journal*, 156, 104476
5. Kim, E., Plyaskin, A., Lee, C.-H., & Park, M. J. (2025). Numerical investigations of the effect of CFRP on the impact resistance of concrete under high-velocity impact, *International Journal of Impact Engineering*, 203, 105354
6. Jeong, S.-H., Cahyadi, Y., Park, M. J., & Lee, C.-H. (2025). Seismic behavior and strength evaluation of roof exterior beam-column joints with transverse beams on both sides: With eccentricity and slabs as variables, *Structures*, 75, 108681
7. Le, V. L., Lee, C.-H., Alemayehu, R. W., Park, M. J. (2024). Finite Element Modeling of the Behaviors of Concrete-Filled Steel Tube (CFT) Columns at Elevated Temperatures, *Buildings*, 15(1), 11
8. Cahyadi, Y., Park, M. J., & Lee, C.-H. (2024). A seismic retrofit strategy involving steel haunch and external prestressing for non-ductile reinforced concrete knee joints, *Journal of Building Engineering*, 96, 110483
9. Jeong, S.-D., Oh, C.-S., Park, M. J., & Lee, C.-H. (2024). Seismic tension testing of cast-in specialty inserts under different cyclic loading protocols, *Structures*, 61, 106104
10. Jeong, S.-D., Oh, C.-S., & Lee, C.-H. (2023). Experimental Evaluation of Tension and Shear Capacities of New Headed Cast-in Specialty Inserts in Cracked Concrete, *International Journal of Concrete Structures and Materials*, 17(5), 923–933
11. Choi, M.-H., & Lee, C.-H. (2023). Assessing the impact of eccentricity, slabs, and transverse beams on the behavior of reinforced concrete beam-column joints, *Structures*, 49, 212–222
12. Bae, J., Ju, Y. K., & Lee, C.-H. (2022). Improving the Seismic Performance of Tall Steel Buildings Using Advanced Visco-Plastic Braces, *International Journal of Steel Structures*, 22(6), 1658–1668
13. Choi, M.-H., & Lee, C.-H. (2022). Seismic Behavior of Existing Reinforced Concrete Columns with Non-Seismic Details under Low Axial Loads, *Materials*, 15(3), 1239

14. Kisi, O., Mansouri, I., Awoyera, P. O., & **Lee, C.-H.** (2021). Modeling flexural overstrength factor for steel beams using heuristic soft-computing methods, *Structures*, 34, 3238–3246
15. Alemayehu, R. W., Jung, S., Bae, J., **Lee, C.-H.**, & **Ju, Y. K.** (2021). Tapered reduced deep beam connection for long span steel moment frames, *Engineering Structures*, 244, 112731
16. Son, J.-K., & **Lee, C.-H.** (2021). Evaluation of Appropriate Hysteresis Model for Nonlinear Dynamic Analysis of Existing Reinforced Concrete Moment Frames, *Materials*, 14(3), 524
17. **Lee, C.-H.**, Mansouri, I., Bae, J., & Ryu, J. (2021). Current and New Approaches to Predict the Deflections of One-Way Flexural Members with a Focus on Composite Steel Deck Slabs Voided by Circular Tubes, *Materials*, 14(2), 421
18. Bae, J., **Lee, C.-H.**, Park, M., Alemayehu, R. W., Ryu, J., & **Ju, Y. K.** (2020). Modified Low-Cycle Fatigue Estimation Using Machine Learning for Radius-Cut Coke-Shaped Metallic Damper Subjected to Cyclic Loading, *International Journal of Steel Structures*, 20(6), 1849–1858
19. Bae, J., **Lee, C.-H.**, Park, M., Alemayehu, R. W., Ryu, J., Kim, Y., & **Ju, Y. K.** (2020). Cyclic Loading Performance of Radius-Cut Double Coke-Shaped Strip Dampers, *Materials*, 13(18), 3920
20. Ryu, J., Lho, S.-H., **Lee, C.-H.**, & **Ju, Y. K.** (2020). Flexural behavior of prestressed sandwich plate system composite beams, *Engineering Structures*, 215, 110705
21. Ryu, J., **Lee, C.-H.**, Park, M. J., & **Ju, Y. K.** (2019). Experimental study on bearing behavior of glass fiber steel composite plates (GSPs) for bolted connections, *Engineering Structures*, 186, 170–182
22. **Lee, C.-H.**, **Mansouri, I.**, Kim E., Ryu, J., & Woo, W.-T. (2019). Experimental analysis of one-way composite steel deck slabs voided by circular paper tubes: Shear strength and moment–shear interaction, *Engineering Structures*, 182, 227–240
23. **Lee, C.-H.**, **Mansouri, I.**, Kim E., Hwang, K.-S., & Woo, W.-T. (2019). Flexural strength of one-way composite steel deck slabs voided by circular paper tubes, *Journal of Structural Engineering*, 145(2), 04018246
24. Ryu, J., Kim, Y. Y., Park, M. W., Yoon, S.-W., **Lee, C.-H.**, & **Ju, Y. K.** (2018). Experimental and numerical investigations of steel-polymer hybrid floor panels subjected to three-point bending, *Engineering Structures*, 175, 467–482
25. Farzampour, A., Mansouri, I., **Lee, C.-H.**, Sim, H.-B., & **Hu, J. W.** (2018). Analysis and design recommendations for corrugated steel plate shear walls with a reduced beam section, *Thin-Walled Structures*, 132, 658–666
26. **Lee, C.-H.**, Ryu, J., Kim, D.-H., & **Ju, Y. K.** (2018). Improving seismic performance of non-ductile reinforced concrete frames through the combined behavior of friction and metallic dampers, *Engineering Structures*, 172, 304–320
27. Mansouri, I., Kisi, O., Sadeghian, P., **Lee, C.-H.**, & **Hu, J. W.** (2017). Prediction of ultimate strain and strength of FRP-confined concrete cylinders using soft computing methods, *Applied Sciences*, 7(8), 751
28. Kim, D.-H., **Lee, C.-H.**, & **Ju, Y. K.** (2017). Experimental investigation of hybrid buckling-restrained braces, *International Journal of Steel Structures*, 17(1), 245–255
29. Ryu, J., **Lee, C.-H.**, Oh, J., Yoon, S.-W., & **Ju, Y. K.** (2017). Shear resistance of a biaxial

hollow composite floor system with GFRP plates, *Journal of Structural Engineering*, 143(2), 04016180

30. **Lee, C.-H.**, Ryu, J., Oh, J., Yoo, C.-H., & **Ju, Y. K.** (2016). Friction between a new low-steel composite material and milled steel for SAFE Dampers, *Engineering Structures*, 122, 279–295
31. **Lee, C.-H.**, Lho, S.-H., Kim, D.-H., Oh, J., & **Ju, Y. K.** (2016). Hourglass-shaped strip damper subjected to monotonic and cyclic loadings, *Engineering Structures*, 119, 122–134
32. **Lee, C.-H.**, Kim, J., Kim, D.-H., Ryu, J., & **Ju, Y. K.** (2016). Numerical and experimental analysis of combined behavior of shear-type friction damper and non-uniform strip damper for multi-level seismic protection, *Engineering Structures*, 114, 75–92
33. **Lee, C.-H.**, **Ju, Y. K.**, Min, J.-K., Lho, S.-H., & Kim, S.-D. (2015). Non-uniform steel strip dampers subjected to cyclic loadings, *Engineering Structures*, 99, 192–204
34. **Lee, C.-H.**, Woo, S.-K., Ju, Y. K., Lee, D.-W., & Kim, S.-D. (2015). Modified fatigue model for hourglass-shaped steel strip damper subjected to cyclic loadings, *Journal of Structural Engineering*, 141(8), 04014206
35. Kim, D.-H., **Lee, C.-H.**, **Ju, Y. K.**, & Kim, S.-D. (2015). Subassemblage test of buckling-restrained braces with H-shaped steel core, *The Structural Design of Tall & Special Buildings*, 24(4), 243–256
36. Lho, S.-H., **Lee, C.-H.**, Oh, J.-T., Ju, Y. K., & Kim, S.-D. (2014). Flexural capacity of plate girders with very slender corrugated webs, *International Journal of Steel Structures*, 14(4), 731–744

### **Scopus Indexed Journal Papers**

1. Lee, D.-W., **Lee, C.-H.**, **Park, M. J.** (2025). Vulnerability Assessment of Low-Rise RC Buildings based on the Korean Standard Design Documents under Debris Flow, *Journal of the Architectural Institute of Korea*, 41(5), 241–249 (in Korean)

### **KCI Indexed Journal Papers (in Korean)**

1. Kim, H, **Lee, C.-H.**, Han, K.-H., Ha, T, **Park, M. J.** (2025). Evaluation of Structural Fire Performance for Steel Modular Building Using Critical Temperature Method, *Journal of Korean Society of Steel Construction*, 37(4), 161–170
2. Jung, D. J., Le, V. L., **Lee, C.-H.**, **Park, M. J.** (2025). Predictive Equation with Extended Applicability for Fire Resistance of Unprotected Circular CFT Columns Considering Safe Conditions, *Journal of Korean Society of Steel Construction*, 37(4), 171–180
3. Jung, D. J., Le, V. L., **Lee, C.-H.**, **Park, M. J.** (2025). Predictive Equation for Fire Resistance of Rectangular CFT Columns Exposed to Standard Fire, *Journal of Korean Society of Steel Construction*, 37(4), 181–192
4. Kim, H, **Lee, C.-H.**, Han, K.-H., Ha, T, **Park, M. J.** (2025). Module-Level Evaluation for Fire Behaviors of Steel Modular Buildings, *Journal of Korean Society of Steel Construction*, 37(3), 123–132
5. Kim, S. W., Han, K. M., **Lee, C.-H.**, **Park, M. J.** (2024). Structural Safety Assessment of Factory Rooftop Solar Structures Using Machine Learning Models, *Journal of Korean Society*

*of Steel Construction*, 36(6), 443–450

6. Jeong, S.-H., Cahyadi, Y., Park, M.-J., & **Lee, C.-H.** (2024). Seismic Retrofitting of Roof-Level Beam-Column Joints with External Prestressing Method, *Journal of the Korean Association for Spatial Structures*, 24(4), 31–39
7. Jeong, S.-D., Oh, C.-S., Park, M. J., & **Lee, C.-H.** (2023). Experimental Capacity of Suspended Piping Trapeze Restraint Installations under Cyclic Loadings, *Journal of the Korean Association for Spatial Structures*, 23(3), 79–86
8. Jeong, S.-D., Oh, C.-S., & **Lee, C.-H.** (2023). Shear Performance Evaluation of Cast-in Specialty Inserts in Cracked Concrete according to Cyclic Loading Patterns, *Journal of the Korean Association for Spatial Structures*, 23(2), 53–60
9. Choi, M.-H., & **Lee, C.-H.** (2022). Nonlinear Analysis Models to Predict the Hysteretic Behavior of Existing RC Column Members, *Journal of the Korean Association for Spatial Structures*, 22(4), 89–98
10. Jeong, S.-H., Choi, M.-H., & **Lee, C.-H.** (2022). Failure Mode of Structural Components Considering Column Axial Forces and Partial Masonry Infills for School Buildings Constructed in the 1980s, *Journal of the Korean Association for Spatial Structures*, 22(3), 57–64
11. **Lee, C.**, Ra, H., Oh, Y., & **Lee, C.** (2021). Global Busan City Brand Image Development Strategy - SWOT/AHP analysis -, *The East Asian Journal of Business Economics*, 9(3), 115–124 (in English)
12. Choi, M.-H., Ha, S.-Y., & **Lee, C.-H.** (2021). Analysis of Failure Modes among Beams, Columns, and Joints for School Buildings Constructed in the 1980s, *Journal of the Korean Association for Spatial Structures*, 21(3), 51–60
13. Jeon, J.-S., Kim, J.-H., Oh, C.-S., & **Lee, C.-H.** (2021). Tensile and Shear Strengths of New Type of Cast-in-Place Concrete Insert Anchors Under Monotonic Loading, *Journal of the Korean Association for Spatial Structures*, 21(2), 49–56
14. Son, J.-K., & **Lee, C.-H.** (2020). Hysteresis Model for the Cyclic Response of Existing Reinforced Concrete Frames, *Journal of the Korean Association for Spatial Structures*, 20(3), 81–89
15. **Lee, C.-H.**, & Son, J.-K. (2020). Seismic Performance Evaluation of Existing Buildings Using Equivalent Double Diagonal Strut Model for Corrugated Steel Plate Walls, *Journal of the Korean Association for Spatial Structures*, 20(1), 87–94
16. Chae, S.-M., **Lee, C.-H.**, & Chung, K.-R. (2018). Study on Design Factors of System Support for Irregular Shaped Structures, *Journal of the Korean Association for Spatial Structures*, 18(1), 85–92
17. Lee, D.-G., **Lee, C.-H.**, & **Ju, Y. K.** (2017). Structural Performance of SAFE Damper - Reinforced Concrete Beam Joint, *Journal of the Architectural Institute of Korea Structure & Construction*, 33(1), 11–18
18. **Lee, C.-H.**, & Chung, K.-R. (2016). Lateral-resisting Structural Systems for Tall Modular Buildings, *Journal of the Korean Association for Spatial Structures*, 16(2), 79–88
19. So, B.-C., **Lee, C.-H.**, & **Ju, Y. K.** (2015). Structural Performance of RC Frame with SAFE Damper, *Journal of the Korean Association for Spatial Structures*, 15(1), 85–94

20. Lee, J.-Y., **Lee, C.-H.**, Ju, Y.-K., Kim, Y.-S., & Kim, S.-D. (2015). Compressive Capacity Evaluation of Composite Column Composed of High-Strength PC and Normal-Strength RC, *Journal of the Architectural Institute of Korea Structure & Construction*, 31(3), 3–10
21. Hwang, I.-T., **Lee, C.-H.**, Ju, Y.-K., & Kim, S.-D. (2013). Shear Capacity of SAFE Friction Damper Using Break Pad of Automobile, *Journal of the Architectural Institute of Korea Structure & Construction*, 29(3), 11–18
22. Woo, S.-K., **Lee, C.-H.**, Ju, Y.-K., & Kim, S.-D. (2013). Performance Evaluation of Optimized Flexure-Dominated Steel Strip Dampers under Monotonic Loading, *Journal of the Architectural Institute of Korea Structure & Construction*, 29(2), 3–11
23. Oh, M.-H., **Lee, C.-H.**, Kim, M.-H., Kim, D.-J., & Kim, S.-D. (2005). Experimental Study on the Seismic Performance of Steel Beam to Steel-Concrete Composite Column Connection, *Journal of the Architectural Institute of Korea Structure & Construction*, 21(3), 85–94

## Conference Papers and Presentations

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### *International Conference*

1. Le, V. L., **Lee, C.-H.**, & Park, M. J. (2024). Finite Element Modeling of the Behavior of Concrete-Filled Steel Tube Columns at Elevated Temperatures, *13th International Symposium on Fire Science and Technology*, Daegu, Korea, October
2. Jeong, M. H., **Lee, C.-H.**, & Park, M. J. (2024). Temperature Profile of Steel-Plate Composite Wall (SC Wall) under Standard Fire, *13th International Symposium on Fire Science and Technology*, Daegu, Korea, October
3. Kim, H. J., **Lee, C.-H.**, & Park, M. J. (2024). Post-fire Residual Yield Strength and Ultimate Strength of Conventional Steel Depending on Load Ratios, *13th International Symposium on Fire Science and Technology*, Daegu, Korea, October
4. Kim, H., **Lee, C.-H.**, & Park, M. J. (2024). Finite Element Model for Full-scale Fire Test of Modular System in the Thermal Fields, *13th International Symposium on Fire Science and Technology*, Daegu, Korea, October
5. Jung, D. J., **Lee, C.-H.**, & Park, M. J. (2024). Finite Element Analysis of Fire Resistance Performance of CFT Column and Built-up CFT Column under Axial Compression in Standard Fire Conditions, *13th International Symposium on Fire Science and Technology*, Daegu, Korea, October
6. Bae, J., Kim, Y.-J., & **Lee, C.-H.** (2021). Seismic Retrofit of Tall Building Structure with Viscous, Visco-Elastic, and Visco-Plastic Dampers, *11th International Symposium on Steel Structures*, Jeju, Korea, November
7. Alemayehu, R. W., Bae, J.-H., **Lee, C.-H.**, Park, M.-J., Kim, Y.-S., Ryu, J.-H., & Ju, Y. K. (2021). Seismic Performance of Coke Slit Damper with Multiple Plastic Zones, *17th World Conference on Earthquake Engineering*, Sendai, Japan, September
8. Mansouri, I., **Lee, C.-H.**, Mirzai, N. M., & Hu, J. W. (2019). Seismic Performance of Steel Frames Equipped with a New Hybrid Steel-Friction Damper, *10th International Symposium on Steel Structures*, Jeju, Korea, November
9. Bae, J., **Lee, C.-H.**, Park, M., Ryu, J., Kim, Y., & Ju, Y. K. (2019). Radius-Cut Coke-Shaped

Strip Dampers Subjected to Cyclic Loading, *10th International Symposium on Steel Structures*, Jeju, Korea, November

10. Alemayehu, R. W., Bae, J., **Lee, C.-H.**, & Ju, Y. K. (2019). Finite Element Analysis of Flexural Yielding Steel Strip Damper Subjected to Cyclic Load, *10th International Symposium on Steel Structures*, Jeju, Korea, November
11. Lho, S.-H., Ju, Y. K., **Lee, C.-H.**, Oh, J.-T., & Kim, S.-D. (2013). Bend-Buckling of Corrugated Webs under Pure Bending, *7th International Symposium on Steel Structures*, Jeju, Korea, November
12. Lho, S.-H., Ju, Y. K., **Lee, C.-H.**, & Kim, S.-D. (2013). Flexural Capacity of Corrugated Steel Beams under Pure Bending, *7th International Symposium on Steel Structures*, Jeju, Korea, November
13. **Lee, C.-H.**, Ju, Y. K., Lho, S.-H., & Kim, S.-D. (2013). Behavior of Hourglass-Shaped Steel Damper Subject to Monotonic and Cyclic Loadings, *7th International Symposium on Steel Structures*, Jeju, Korea, November
14. **Lee, C.-H.**, Ju, Y. K., Yoo, C.-H., Ryu, J.-H., & Kim, S.-D. (2013). Frictional Behavior for Low-Steel Composite Material on Milled Steel Surface, *9th International Conference on Fracture and Strength of Solids*, Jeju, Korea, June
15. **Lee, C.-H.**, Woo, S.-K., Ju, Y. K., Im, H.-C., & Kim, S.-D. (2012). Low-cycle Fatigue Damage for the Steel Strip Dampers, *International Union of Materials Research Society - International Conference in Asia 2012*, Busan, Korea, August
16. **Lee, C.-H.**, Hwang, I.-T., Ju, Y. K., Woo, W.-T., & Kim, S.-D. (2012). Cyclic Performance of Newly Developed Steel Strip Dampers, *International Union of Materials Research Society - International Conference in Asia 2012*, Busan, Korea, August

## Research Projects and Grants

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1. **Lee, C.-H.**, Choi, J.-H., Jung, D., & Park, M. J. (Aug 2024 – Apr 2027). Global Basic Research Lab (GBRL) for Structural Fire Performance Evaluation of Electric Vehicle Charging Infrastructure: National Research Foundation of Korea (1,375,000,000 KRW)
2. **Lee, C.-H.** (Mar 2022 – Feb 2025). Evaluating the Joint Vulnerability of Existing Reinforced Concrete Frames Considering Domestic Construction Practices and Developing Technologies to Improve Seismic Performance: National Research Foundation of Korea (574,012,000 KRW)
3. Kang, D.-W., & **Lee, C.-H.** (Jun 2021 – May 2023). Development of Suspended Lightweight Piping Systems with Seismic Performance: Ministry of SMEs and Startups (259,200,000 KRW)
4. Kang, D.-W., & **Lee, C.-H.** (Jun 2020 – Feb 2021). Development of 10 kN-class Easy Lock Preset Insert Anchors for Earthquake-Resistant Design: Ministry of SMEs and Startups (62,375,000 KRW)
5. **Lee, C.-H.** (Mar 2019 – Feb 2022). Evaluation of Structural Behavior of Existing School Buildings according to the Different Construction Periods: Derivation of Hysteresis Models Suitable for Seismic Analysis: National Research Foundation of Korea (291,050,000 KRW)

## Teaching

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- 100932 Structural Experiment
- 110056 Reinforced Concrete I
- 110063 Reinforced Concrete II
- 112004 Capstone Design I
- 112005 Capstone Design II
- 112061 Introduction to Building Structures
- 112347 Structural Design Practice
- 113027 Structural Mechanics I
- 113047 Structural Mechanics and Testing
- A04148 Design of Reinforced Concrete Structure
- A05651 Structural Dynamics
- A05668 Structural Analysis
- A10621 Seismic Analysis of Building Structures
- A10865 Introduction to High-rise Building Structures
- A10869 Structural Systems for High-rise Buildings
- A11388 Structural Design of Buildings

## Honors and Awards

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- Springer Nature Editorial Contribution Award 2025 May 2025
- Academic Award, Architectural Institute of Korea Apr 2024
- PKNU Rising Researcher Award in College of Engineering, Pukyong National University Dec 2022
- PKNU Early Career Researcher Award, Pukyong National University May 2022
- Best Paper Award, Korean Association for Spatial Structures Oct 2020

## Service and Membership

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### *Editorial Board for Peer-Reviewed Journals*

- Associate Editor, International Journal of Steel Structures (2023 – present)
- Editorial Board Member, International Journal of Concrete Structures and Materials (2021 – present)
- Editorial Member, Journal of the Architectural Institute of Korea (2020 – 2024)
- Editorial Board Member, Journal of Korean Society of Steel Construction (2023 – present)

### *Reviewer for Peer-Reviewed Journals*

- Advances in Civil Engineering (2022)
- Earthquake Engineering and Engineering Vibration (2025)
- Engineering Structures (2019, 2022–23, 2025)
- International Journal of Steel Structures (2015–24)
- Journal of Building Engineering (2021, 2024–25)
- Journal of Structural Engineering (2022, 2024–25)
- KSCE Journal of Civil Engineering (2023–24)
- Metals (2021)
- Scientia Iranica (2018)
- Steel and Composite Structures (2019)
- Structural Engineering and Mechanics (2024)
- Structures (2020, 2022, 2024–25)
- Journal of Korean Society of Steel Construction (2021, 2023–24)
- Journal of the Architectural Institute of Korea (2021–22)
- Journal of the Earthquake Engineering Society of Korea (2018)
- Journal of the Korea Concrete Institute (2023)
- Journal of the Korean Association for Spatial Structures (2015–25)
- Journal of the Korean Society of Hazard Mitigation (2016–18)
- Journal of the Regional Association of Architectural Institute of Korea (2020–22)

### ***Membership***

- Member, American Concrete Institute (ACI) (2021 – 2024)
- Member, American Society of Civil Engineers (ASCE) (2021 – 2024)
- Member, Architectural Institute of Korea (AIK) (2004 – present)
- Member, Earthquake Engineering Society of Korea (EESK) (2018 – present)
- Member, Korea Concrete Institute (KCI) (2020 – present)
- Member, Korea Society of Seismic Isolation and Vibration Control (2022 – present)
- Member, Korean Association for Spatial Structures (KASS) (2016 – present)
- Member, Korean Society for Advanced Composite Structures (KOSACS) (2020 – present)
- Member, Korean Society of Steel Construction (KSSC) (2003 – present)