

# CURRICULUM VITAE

**Alper KANYILMAZ**

Assistant Professor

(Ricercatore legge 240/10 - t.det.)

Department of Architecture, Built Environment and Construction  
Engineering (DABC)  
Politecnico di Milano

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(for the latest updates in my activity, please visit:

[www.alperkanyilmaz.com](http://www.alperkanyilmaz.com))

Autorizzo il Politecnico di Milano a pubblicare il presente curriculum sul sito web di Ateneo, ai fini istituzionali e in ottemperanza al D. Lgs n. 33 del 14 marzo 2013 “Decreto trasparenza” come modificato dal D. Lgs. 97 del 2016

## **PERSONAL INFORMATION**

First name, family name: **Alper Kanyilmaz**  
Born in: Izmir, Turkey  
URL, personal website: [www.alperkanyilmaz.com](http://www.alperkanyilmaz.com)  
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Scopus: <https://www.scopus.com/authid/detail.uri?authorId=53866528200>

I am a researcher studying new structural systems for a safe, resource-efficient and elegant built environment. I am currently an assistant professor in the Department of Architecture, Built Environment and Construction Engineering of Politecnico di Milano. Here, I have four main research lines:

- Fabrication of new structural systems using laser cutting and additive manufacturing.
- Structural design using machine learning and bio-inspired topology optimization.
- Mitigation of dynamic actions (fatigue, seismic) on structures.
- Earthquake-resistant structures using repairable connections with increased lifetime and sustainability.

I cover these topics at both component and full-scale levels, cooperating with industry and several research institutes. Some of the results have been published in more than 60 articles.

I transfer my research experience to the civil engineering and architecture undergraduate and graduate students in the university. My teaching environment is constructed through numerical simulation and experimentation in the classes, laboratories, and online.

## **EDUCATION**

01.11.2013 - 27.03.2017 PhD (cum laude) in Architecture, Built Environment and Construction Engineering, Politecnico di Milano, Italy. Thesis title: "A new design approach for concentrically braced frames in moderate seismicity."  
09.10.2007 - 04.05.2010 MSc in Civil Engineering, Politecnico di Milano, Italy, Thesis title: "Seismic protection of ancient statues under 3D earthquake excitations by means of base Isolation."  
01.10.2001 - 11.06.2006: BSc in Civil Engineering, Middle East Technical University, Ankara, Turkey

## **ACADEMIC POSITIONS**

02.09.2019 - present: **Assistant Professor**, Department of Architecture, Built Environment and Construction Engineering, Politecnico di Milano<sup>1</sup> (Italy)  
01.08.2010 - 30.08.2019: **Research Engineer, PhD, teaching assistant roles**, Department of Architecture, Built Environment and Construction Engineering, Politecnico di Milano (Italy)

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<sup>1</sup> In 2020 QS World University Rankings, Politecnico di Milano was ranked 7<sup>th</sup> in the structural engineering and architecture categorie.

## TEACHING AND SUPERVISION

Currently teaching “Structures” module in the bi-disciplinary course “ARCHITECTURAL DESIGN LABORATORY 2” (CFU 12.0).

I took part in the past within the following courses: “Architecture of Steel Constructions”, 4th year, CFU 4.00, Architecture (4 semesters between 2014-2018), “Design of Structures”, 4th year, CFU 9.00, Building Engineering (3 semesters between 2015-2018), “Building Systems and Component Design”, 4th year, CFU 9.00 Building Engineering (2 semesters between 2014-2016). Active in supervision of MSc and 2PhD theses.

I obtained the following certificates of innovative teaching:

- October/November 2019: “Practical approaches to innovative teaching”, 12 hours, Methods and Innovative Technologies for Learning section of Politecnico di Milano
- June 2019: “Designing innovative teaching”, 30 hours, Methods and Innovative Technologies for Learning section of Politecnico di Milano

## PROFESSIONAL ACTIVITY

01.08.2010 – 31.08.2019: Partner, Engineering consultant in Fincon Consulting Italia Srl, Italy  
Static, dynamic and fatigue analysis and design of structures (buildings, bridges and industrial systems), connection detailing, structural health monitoring and rehabilitation. As a partner of the company, I was involved in management activities.

31.07.2006-30.08.2007: Civil Engineer in Kasktas, Moscow, Russia

This was my first job after obtaining my BSc degree before starting an academic career. I was a site engineer in the deep excavation construction of the Moscow City Central Transport Terminal Project.

## SUCCESSFUL RESEARCH GRANT WRITING THAT RECEIVED FUNDING

09.01.2018: **EU-RFCS/Horizon 2020 project DISSIPABLE** “Fully Dissipative and Easily Repairable Devices for Resilient Buildings with Composite Steel-Concrete Structures”, Politecnico di Milano **Grant: € 907,405.82**

I coordinated the research proposal writing. Grant Agreement was signed on 13.03.2018 for 2018-2022.

02.03.2016: **EU-RFCS/Horizon 2020 project LASTEICON** “Laser Technology for Innovative Connections in Steel Construction”, Fincon Consulting Italia **Grant: € 1,156,601.58**

I assisted the coordination of the research proposal writing under the supervision of Prof. Carlo A. Castiglioni. Grant Agreement was signed on 20.06.2016 for 2016-2019.

## INDUSTRIAL INNOVATION: Positions in the EU-Funded Research Projects

01.06.2018 - Present: **Primary coordinator**, Politecnico di Milano (Coordinator), RFCS/Horizon 2020 project DISSIPABLE “Fully Dissipative and Easily Repairable Devices for Resilient Buildings with Composite Steel-Concrete Structures” **Grant: €907,405.82**

I am coordinating the project, which is composed of 8 academic and industrial partners from 4 EU countries. I also supervise the numerical simulation tasks on the structural behaviour of the pilot steel buildings, including anti-seismic connections.

01.07.2016 – 30.08.2019: **Assistant coordinator**, Fincon Consulting Italy (Coordinator), RFCS/Horizon 2020 project LASTEICON “Laser Technology for Innovative Connections in Steel Construction” **Grant: €1,156,601.58**

I coordinated the project together with Prof. Carlo A. Castiglioni, which is composed of 9 academic and industrial partners from 5 EU countries.

01.07.2017- 30.08.2019: **Supervisor**, Fincon Consulting Italy (Coordinator), RFCS/Horizon 2020 project FASTCOLD “Fatigue Strength of Cold-Formed Structural Steel Details” **Grant: €1,724,361.48**

I supervised numerical activities to develop fatigue design rules for cold-formed steel elements and their connections with a focus on the logistics industry (e.g., racking systems).

01.07.2017 - 30.08.2019: **Technical lead**, Fincon Consulting Italy (Beneficiary), RFCS/Horizon 2020 project STEELWAR “Advanced Structural Solutions for Automated Steel Rack Supported Warehouses” **Grant: €1,473,275.88**

I lead the numerical task on the behaviour of self-supporting automated warehouses under seismic and wind loads. I was also one of the inventors of the research idea that won the grant. This project possesses the third largest grant for research actions in the history of EU-RFCS TGS “Steel products and applications for building, construction and industry” (among 152 funded projects since 2003).

01.07.2016 - 31.12.2017: **Team member**, Politecnico di Milano (Beneficiary), RFCS/Horizon 2020 INNOSEIS “Valorization of innovative anti-seismic devices” **Grant: €597,396.00.**

I participated in the activities of guideline writing and dissemination about the use of dissipative seismic connections developed in past European research projects.

01.07.2013-31.12.2016: **Team member**, Politecnico di Milano (Beneficiary), EU-RFCS project MEAKADO “Design of steel and composite structures with limited ductility requirements for optimized performances in moderate Earthquake areas” **Grant: €783,015.00**

I managed a team of students, interns and technicians to perform the full-scale tests. The aim was to develop a new low-to-moderate seismicity design approach of concentrically braced frames. The results of this project were partly considered in the latest Eurocodes.

01.07.2013-31.12.2016: **Scientific consultant**, Neapolis University Cyprus (Beneficiary), EU-RFCS project PROINDUSTRY “Seismic protection of industrial plants by enhanced steel-based systems” **Grant €940,749.00**

I studied the seismic vulnerability of an existing steel industrial silo system by means of incremental dynamic analysis and proposed a retrofitting solution using single curved surface sliding pendulum devices.

01.07.2011-31.12.2013: **Team member**, Politecnico di Milano (Coordinator), EU-RFCS project SEISRACKS2 “Seismic Behaviour of Steel Storage Pallet Racking Systems” **Grant: €865,269.00**

I assisted the full-scale tests of racking systems made of cold formed steel in both the presence and absence of the vertical bracings. The aim was to assess the ductility of different rack types. Also, I assisted the coordinator (Prof. C.A. Castiglioni) in the project management and drafted the periodic technical reports. Results of this project have formed the basis of the new European seismic standard EN 16681: 2016 -Steel static storage systems - Pallet racking - Principles for seismic design.

01.08.2010-31.12.2011: **Team member**, Politecnico di Milano (Beneficiary) EU-RFCS project FUSEIS “Dissipative devices for seismic resistant steel frames” RFSR-CT-2008-00032 **Grant: €444,810.00**

I assisted the real-scale experimental tests of the steel-concrete composite frames with replaceable dissipative connections. Based on the results, I developed and calibrated finite element numerical models and performed parametric analyses. Finally, I drafted the design procedures for steel and steel-concrete composite frames, in the presence of dissipative connections.

## **AWARDS AND SCHOLARSHIPS**

26.05.2008: **Joint winner at “The Third Concrete Design Competition Implicit Performance Exploring the Hybrid Condition”, Belgium**

A biennial competition of innovative ideas related to the use of concrete, organized by a consortium of European Cement associations. I acted as the structural engineer in the team that won the Joint Winner prize award with the “Reverse effect” project. The jury's judgment was as follows: “The Reverse Effect project was awarded for the application of the “hybrid concept” to both the system and the material. The project, rich in inventiveness and imagination, provides a system of floating elements that can be used for a city on the water that uses the thrust of the fluid as a constructive component, a hybrid component made of the reinforced concrete and steel fibers”.

09.10.2007 – 30.09.2009: **Full Scholarship of ICE Unioncamere 2007**

I won the ICE-UNIONCAMERE Scholarship, a total sum of €16,000.00, for my Civil Engineering MSc study at Politecnico di Milano.

18.04.2006: **Second place with prize money at Prosteel, International Steel Design Competition 2006, Istanbul, Turkey**

Prosteel is organized by the Turkish Structural Steel Association (TUCSA), sponsored by Borusan Mannesmann (Europe's leading steel tube manufacturer, founded in 1958). Mixed groups composed of students of architecture and civil engineering compete. I was the structural engineering student of the team that won second place with the “Student social centre” project.

## **SERVICE TO THE ACADEMY**

I am a reviewer in the following journals:

- *Journal of Constructional Steel Research* (Elsevier)
- *Fatigue & Fracture of Engineering Materials & Structures journal* (Wiley),
- *Thin Walled Structures* (Elsevier),
- *Structures* (Elsevier),
- *Journal of Structural Engineering* (ASCE),
- *Journal of Earthquake Engineering* (Taylor Francis)
- *Bulletin of Earthquake Engineering* (Springer)
- *Steel and Composite Structures* (Techno Press).
- *Heliyon* (Elsevier)

## **MAJOR COLLABORATIONS**

**Steel and composite steel-concrete structures:** Prof. Mohammed Hjjaj (INSA-RENNES), Prof. Walter Salvatore (University of Pisa), Prof. Luis Calado (Technical University of Lisbon), Prof. Benno Hoffmeister (RWTH Aachen University), Prof. Herve Degee (Hasselt University), Dr. Pierre Olivier Martin (CTICM, France), Dr. Inigo Calderon (TECNALIA, Spain).

**Fatigue and Structural Integrity:** Prof. Filippo Berto (NTNU Norway), Prof. Abilio Jesus and Prof. Augusto Fernandes (University of Porto), Prof. Carla Gambaro (University of Genova), Dr. Ilchat Sabirov (IMDEA, Spain).

**Steel connections and joints:** Prof. Ioannis Vayas, Prof. Harris Mouzakis, Prof. Ioannis Psycharis, Prof. Dimitrios Vamvatsikos (National Technical University of Athens), Prof. Oreste Bursi (University of Trento), OCAM Srl. (steel manufacturer), Vallourec (steel tube producer), BLM Group (laser cutting machine producer), SOFMAN (steel manufacturer, Greece), RINA Consulting (design and consulting, Italy), CIMOLAI S.p.A. (steel manufacturer, Italy), MAURER (seismic isolation, Germany), SCL Italy.

**Racking industry:** SSI SCHAFFER (Germany), MODULBLOK, SACMA SPA (Italy), NEDCON (Netherlands), MECALUX, NOEGA Systems (Spain), STOW International (Belgium).

**PUBLICATION LIST****Journal publications**

1. Couchaux M., Vyhlás V., **Kanyilmaz A.**, Hjiáj M., Passing-through I-beam-to-CHS column joints made by laser cutting technology: Experimental tests and design model, *Journal of Constructional Steel Research*, Volume 176, 2021, 106298, ISSN 0143-974X, <https://doi.org/10.1016/j.jcsr.2020.106298>.
2. **Kanyilmaz, A.**, Berto, F., Paoletti I., Caringal, R.J., Mora, S., Nature-inspired optimization of tubular joints for metal 3D printing, *Struct Multidisc Optim* (2020). <https://doi.org/10.1007/s00158-020-02729-7>, Springer Nature
3. Das R., **Kanyilmaz A.**, Couchaux M., Hoffmeister B., Degee H., Characterization of moment resisting I-beam to circular hollow section column connections resorting to passing-through plates, *Engineering Structures*, Volume 210, 2020, 110356, ISSN 0141-0296, <https://doi.org/10.1016/j.engstruct.2020.110356>.
4. Vamvatsikos D., Bakalis K., Kohrangi M., Pyrza S., Castiglioni C.A., **Kanyilmaz A.**, Morelli F., Stratan A., D' Aniello M., Calado L., Jorge Proença J.M., Degee H., Hoffmeister B., Pinkawa M., Thanopoulos P., Vayas I., A risk-consistent approach to determine EN1998 behaviour factors for lateral load resisting systems, *Soil Dynamics and Earthquake Engineering*, Volume 131, 2020, 106008, ISSN 0267-7261, <https://doi.org/10.1016/j.soildyn.2019.106008>.
5. **Kanyilmaz, A.**, The problematic nature of steel hollow section joint fabrication, and a remedy using laser cutting technology: A review of research, applications, opportunities, *Engineering Structures*, v. 183, 2019, p. 1027-1048, ISSN 0141-0296, <https://doi.org/10.1016/j.engstruct.2018.12.080> (Elsevier, IF 2.755, SJR 1.690)
6. **Kanyilmaz A.**, Berto, F., Robustness-oriented topology optimization for steel tubular joints mimicking bamboo structures. *Material Design & Processing Communications* 2019; 1:e43. © 2019 John Wiley & Sons, Ltd., <https://doi.org/10.1002/mdp2.43>.
7. **Kanyilmaz, A.**, Muhaxheri M., Castiglioni C.A., Influence of repairable bolted dissipative beam splices (structural fuses) on reducing the seismic vulnerability of steel-concrete composite frames, *Soil Dynamics and Earthquake Engineering*, Volume 119, 2019, Pages 281-298, ISSN 0267-7261, <https://doi.org/10.1016/j.soildyn.2019.01.007>.
8. **Kanyilmaz, A.**, Moderate ductility of the bracing joints with preloaded bolts (2018), *Bulletin of Earthquake Engineering*, vol. 16, p. 503-527, ISSN: 1570-761X, doi: 10.1007/s10518-017-0208-5 (Springer, IF 2.303, SJR 1.522)
9. **Kanyilmaz, A.**, Degee, H., Castiglioni C.A., An adjusted design approach for concentrically braced frames in low-to-moderate seismicity areas, *Bulletin of Earthquake Engineering* (Springer Nature), 16:4159, 2018, <https://doi.org/10.1007/s10518-018-0402-0>
10. Castiglioni C.A., Drei A., Mouzakis H., **Kanyilmaz, A.**, Earthquake-Induced pallet sliding in industrial racking systems, *Journal of Building Engineering* (Elsevier), Volume 19, 2018, Pages 122-133, <https://doi.org/10.1016/j.jobbe.2018.05.004>.
11. **Kanyilmaz, A.**, Castiglioni C.A., Fabrication of laser cut I-beam-to-CHS-column steel joints with minimized welding, *Journal of Constructional Steel Research* (Elsevier), Volume 146, 2018, pages 16-32, ISSN 0143-974X, doi: 10.1016/j.jcsr.2018.02.039
12. Castiglioni C.A., Drei A., **Kanyilmaz, A.** (2018) Continuous Monitoring of Service Conditions of a Steel Storage Racking System. *Journal of Earthquake Engineering*, p. 1-21, ISSN: 1363-2469, doi: 10.1080/13632469.2018.1453402
13. **Kanyilmaz, A.**, A New Design Approach for Concentrically Braced Frames in Moderate Seismicity, PhD Thesis, Politecnico di Milano, 2017
14. **Kanyilmaz, A.**, Role of compression diagonals in concentrically braced frames in moderate seismicity: A full scale experimental study (2017) *Journal of Constructional Steel Research*, vol. 133, p. 1-18, ISSN: 0143-974X, doi: 10.1016/j.jcsr.2017.01.023 (Elsevier, IF 2.509, SJR 1.892)

15. **Kanyilmaz, A.** Secondary frame action in concentrically braced frames designed for moderate seismicity: a full scale experimental study (2017) *Bulletin of Earthquake Engineering*, vol. 15, p. 2101-2127, ISSN: 1570-761X, doi: 10.1007/s10518-016-0054-x (Springer, IF 2.303, SJR 1.522)
16. **Kanyilmaz, A.**, Castiglioni C.A., Reducing the seismic vulnerability of existing elevated silos by means of base isolation devices (2017), *Engineering Structures* (Elsevier), vol. 143, p. 477-497, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2017.04.032
17. Valente, M., Castiglioni, C.A., **Kanyilmaz, A.**, Numerical investigations of repairable dissipative bolted fuses for earthquake resistant composite steel frames (2017) *Engineering Structures* (Elsevier), vol. 131, p. 275-292, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2016.11.004
18. Valente, M., Castiglioni, C.A., **Kanyilmaz, A.**, Welded fuses for dissipative beam-to-column connections of composite steel frames: Numerical analyses (2017) *Journal of Constructional Steel Research* (Elsevier), vol. 128, p. 498-511, ISSN: 0143-974X, doi: 10.1016/j.jcsr.2016.09.003.
19. Gabbianelli, G., **Kanyilmaz, A.**, Bernuzzi, C., Castiglioni, C.A., A combined experimental- numerical study on unbraced pallet rack under pushover loads (2017) *Ingegneria Sismica*, vol. 34, p. 18-38, ISSN: 0393-1420.
20. Valente, M., Castiglioni, C.A., **Kanyilmaz, A.**, Dissipative devices for earthquake resistant composite steel structures: bolted versus welded solution (2016) *Bulletin of Earthquake Engineering*, vol. 14, p. 3613-3639, ISSN: 1570-761X, doi: 10.1007/s10518-016-0002-9.
21. **Kanyilmaz, A.**, Castiglioni, C.A., Brambilla, G., Chiarelli, G.P., Experimental assessment of the seismic behavior of unbraced steel storage pallet racks (2016) *Thin-Walled Structures* (Elsevier), vol. 108, p. 391-405, ISSN: 0263-8231, doi: 10.1016/j.tws.2016.09.001.
22. **Kanyilmaz, A.**, Brambilla G., Chiarelli G., Castiglioni C.A., Assessment of the seismic behavior of braced steel storage racking systems by mean of full scale push over tests (2016), *Thin- Walled Structures* (Elsevier), vol. 107, p. 138-155, ISSN: 0263-8231, doi: 10.1016/j.tws.2016.06.004
23. Castiglioni C.A., **Kanyilmaz, A.**, Chiarelli G.P., Brambilla G., The research activities at Politecnico di Milano on the Static and Seismic Behaviour of Steel Storage Racking Systems, *Costruzioni Metalliche*, XVIII, n.3 2016, pag 25-41
24. **Kanyilmaz, A.**, Validation of Fiber-Based Distributed Plasticity Approach for Steel Bracing Models, *Civil Engineering Journal* Vol.1, No.2, 2015, ISSN:2476-3055
25. Castiglioni, C.A., **Kanyilmaz, A.**, Simplified numerical modeling of elevated silos for non-linear dynamic analysis (2015) *Ingegneria Sismica*, 33 (1-2), pp. 5-14.
26. Castiglioni C.A., **Kanyilmaz, A.**, et al. The SEISRACKS2 EU-RFCS/Horizon 2020 Research Project Seismic Behaviour of Steel Storage Pallet Racking Systems, *Costruzioni Metalliche*, XVII, n.1, 2015, pp 37-48.
27. **Kanyilmaz, A.**, Castiglioni C.A., Chiarelli, G.P., Brambilla G., Modellazione numerica di silos e serbatoi in acciaio soggetti ad azioni sismiche, *Il Giornale dell'Ingegnere*, n.11, 2015, pp 8,10, Qine, Milano
28. Castiglioni C.A., **Kanyilmaz, A.**, Calado L., Prioea J.M., Hoffmeister B., Vayas I., Numerical and experimental results of the FUSEIS project Dissipative devices for seismic resistant frames, *Costruzioni Metalliche*, March-April 2014;
29. Castiglioni C.A., **Kanyilmaz, A.**, Calado L., Experimental analysis of seismic resistant composite steel frames with dissipative devices (2012), *Journal of Constructional Steel Research* (Elsevier), vol. 76, p. 1-12, ISSN: 1873-5983, doi: 10.1016/j.jcsr.2012.03.027

### Books and reports

30. Degee H., Henriques, J. G., Vlemingckx L., Denoel V., Hoffmeister B., Wiescholke M. Castiglioni C.A., **Kanyilmaz A.**, Martin P.O., Rodier A., Couchaux M., Calderon I., Aramburu A., Galazzi A., Cornil A., Duchene Y., Radu J.P., Dege H., Henriques, RFCS-CT-2013-00022 **Design of steel and composite structures with limited ductility requirements for optimized performances in moderate**

**earthquake areas (MEAKADO)** - Final Report, ISSN 1831-9424, ISBN 978-92-79-77021-0, doi: 10.2777/908748 KI-NA-28917-EN-N European Commission

31. Salvatore, W., Morelli F., De Pasquale E., Tesi M., Degee H., Hoffmeister B., Pinkawa M., Bakas N., Castiglioni C.A., **Kanyilmaz A.**, Braga F., Faggella M., Laguardia R., Gigliotti R., Rossi E., Butz C., Medeot R. **Seismic protection of industrial plants by enhanced steel based systems (PROINDUSTRY)** RFSR-CT- 2013-00019 - Final Report, ISSN 1831-9424 ISBN 978-92-79-98293-4, doi: 10.2777/065822, KI-NA-29518-EN-N, European Commission
32. Castiglioni C.A, Kanyilmaz, A., Degee H., Braham C., Hoffmeister B., Heinemeyer C., Vayas I., Adamakos K., Sesana S., Orsatti B., Hermanek J., Frederiks J., Cudini T., Rovere L., Jehin D., Kraus O., Bakalbasis D., **Seismic Behaviour of Steel Storage Pallet Racking Systems (SEISRACKS2)**, European Commission, Research Fund for Coal and Steel, Final Report, EUR 27583 EN, doi: 10.2777/931597, ISBN 978-92-79-53896-4, KI-NA-27-583-EN-C, 2014
33. Vayas, I., Karydakakis, P., Dimakogianni, D. Dougka, G., **Kanyilmaz, A.**, Castiglioni, C.A., Hoffmeister, B., Heinemeyer, C., Rauert, T., Espinha, M., Calado, L., Proenca, J., Kalteziotis, D., **Dissipative devices for seismic-resistant steel frames (FUSEIS)**, European Commission, Research Fund for Coal and Steel, Final Report, doi: 10.2777/88177, ISBN 978-92-79-29186-9, KI-NA-25901-EN-N, 2013

### Conference proceedings

34. Das, R., **Kanyilmaz, A.**, Degee, H., Comparison of two different innovative solutions for IPE beam to CHS column connections, SDSS 2019 - International Colloquium on Stability and Ductility of Steel Structures 2019
35. Degée, H., **Kanyilmaz, A.**, Castiglioni, C., Calado, L., Couchaux, M., Hoffmeister, B., Morelli, F Laser technology for innovative connections in steel construction: An overview of the project LASTEICON, SDSS 2019 - International Colloquium on Stability and Ductility of Steel Structures 2019
36. Piscini, A., Morelli, F., **Kanyilmaz, A.**, Castiglioni, C.A., Salvatore, W., Studies on the behaviour of steel beam-to-column joints realized by using laser cutting technology, 16<sup>th</sup> European Conference on Earthquake Engineering, June 2018
37. **Kanyilmaz, A.**, Degee, H., Henriques, J., Castiglioni, C.A., Martin, P.O., Recommendations for the design of CBFs tailored to low- to-moderate seismicity, 16th European Conference on Earthquake Engineering, June 2018
38. **Kanyilmaz, A.**, Castiglioni C.A., Raso S., Valli A., Brugnolli M., Galazzi A., Hojda R., Circular hollow section joint fabrication using laser cutting technology: Tolerance assessment, Tubular Structures XVI, Taylor Francis Group, ISBN 978-0-8153-8131-1, pp. 631-637 (2018)
39. Martin P.O., Rodier A., Couchaux M., **Kanyilmaz, A.**, Degee. H., Assessment of the ductile behaviour of CBF structures considering energy dissipation in bolted joints, EUROSTEEL 2017, September 1315, 2017, Copenhagen, Denmark, Ernst Sohn Verlag für Architektur und technische Wissenschaften GmbH Co. KG, Berlin, CE/papers (2017), doi.org/10.1002/cepa.384
40. **Kanyilmaz, A.**, Castiglioni C.A., Degee H., Seismic behaviour of concentrically braced frames in the moderate seismicity context, EUROSTEEL 2017, September 1315, 2017, Copenhagen, Denmark, Ernst Sohn Verlag für Architektur und technische Wissenschaften GmbH Co. KG, Berlin, CE/papers (2017), doi.org/10.1002/cepa.400
41. **Kanyilmaz, A.**, Castiglioni C.A., Brambilla G., Gjoka K., Galazzi A., Raso S., Valli A., Brugnolli M., Hojda R., Experimental assessment of tolerances for the fabrication of laser-cut steel joints, EUROSTEEL 2017, September 1315, 2017, Copenhagen, Denmark, Ernst Sohn Verlag für Architektur und technische Wissenschaften GmbH Co. KG, Berlin, CE/papers (2017), doi.org/10.1002/cepa.117.
42. Vamvatsikos D., Castiglioni C.A., Bakalis K., Calado L., D’Aniello M., Degee H., Hoffmeister B., Pinkawa M., Proenca J.M., **Kanyilmaz, A.**, Morelli F., Stratan A., Vayas I., A risk-consistent approach to determine behaviour factors for innovative steel lateral load resisting systems, EUROSTEEL 2017, September 1315, 2017, Copenhagen, Denmark, Ernst Sohn Verlag für Architektur und technische Wissenschaften GmbH Co. KG, Berlin, CE/papers (2017), doi.org/10.1002/cepa.398



43. Degee H., Henriques J., Martin P.O., Calderon I., **Kanyilmaz, A.**, Castiglioni C.A., Optimal Design of Concentrically Braced Steel Frames in Moderate Earthquake Areas, Proceedings of 16th World Conference on Earthquake Engineering WCEE 2017, Santiago, Chile
44. **Kanyilmaz, A.**, Castiglioni C.A., Degee H., Full Scale Experimental Assessment of Concentrically Braced Steel Frames Designed for Moderate Seismicity, Proceedings of 16th World Conference on Earthquake Engineering WCEE 2017, Santiago, Chile
45. Castiglioni, C.A, **Kanyilmaz, A.**, Degee H., Calderon, I., Martin, P.O., Design of concentrically braced steel frames for optimized performances in moderate earthquake areas, Proc. of International Colloquium on Stability and Ductility of Steel Structures, SDSS 2016, ISBN 978-929147133-1
46. Aramburu A., Calderon I., Couchaux M., Degee H., Hoffmeister B., **Kanyilmaz, A.**, Martin, P.O., Wieschollek M., Design of Steel and Composite Structures with Limited Ductility Requirements for Optimized Performances in Moderate Earthquake Areas, SECED Conference: Earthquake Risk and Engineering towards a Resilient World 9-10 July 2015, Cambridge UK
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