Name: **Prof. Ing. Zdeněk Kala, Ph.D.**
Birth date: September 15th, 1971 (age 55)
Birth place: Brno, Czechoslovakia (now Czech Republic)

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**Education**
1995 - Faculty of Civil Engineering, Brno University of Technology (red diploma)
1998 – Ph.D. degree on the topic "Nonlinear Response of Steel Frames to Static Loadings"
2003 – Assoc. Prof. degree on the topic "Verification of Criteria for Design of Steel Structures by Methods of Reliability Analysis"
2008 – Prof. degree on the topic "Structures and Traffic Constructions"

**Specialization, research interests and key words**
Stochastic computational mechanics, global sensitivity analysis, structural reliability and safety, nonlinear structural mechanics, metal structures, stability of metal structures, thin-walled structures, buckling and lateral-torsional buckling, imperfection sensitivity studies (steel structures), geometrical nonlinear analysis of steel structures, Monte Carlo simulation techniques, mathematical statistics (random variables and random fields) connected with stability problems of steel structures, structural design, structural optimization, MCDM in civil engineering, RBI methods in power plants, sensitivity analysis in geotechnics.

**Ph.D. students**
Supervisor of 5 Ph.D. students: • 2006 "Fuzzy Sets and Stochastic Methods and their Applications in Civil Engineering" • 2011 "Experimental and probabilistic analysis of operational reliability of the bucket wheel excavator SchRs 1320/4x30" • 2005 "Reliability Analysis of Steel Columns with Encased Web in High Strength Concrete under Compression" • 2018 "Sensitivity Analysis of Stability Problems og Steel Structures" • 2021 "Analysis of Reliability of Steel Structures with Imperfections".

**Successful applicant of the GA ČR projects**
103/99/P023 (1999–2000), 103/01/D022 (2001–2004), 103/03/0233 (2003–2005), 103/07/1067 (2007–2009), 103/08/0275 (2008–2010), 14-17997S (2014–2016), 17-01589S (2017–2019), 20-01734S (2020–2022), 20-00761S (2020–2022, final evaluation: **Excellent**), 23-04712S (2023–2025, final evaluation: **Excellent**).

**Successful applicant of the AV ČR projects**
AVČR KJB201720602 (2006–2008), AVČR IAA201720901 (2009–2011).

**Memberships** Member of convocation of Faculty of Civil Engineering (2010-2025).

**Memberships in editorial boards**
Guest editor of Special Issue Sensitivity Analysis and Decision Making of peer-reviewed journal Mathematics *• (2023-2026)
Guest editor of Special Issue Sensitivity Analysis of peer-reviewed journal Mathematics *• (2021-2023)
Member of editorial board of peer-reviewed Archives of Civil Engineering *• (2021-2024)
Member of editorial board of peer-reviewed journal Mathematics *• (2020-now)
Member of editorial board of scientific journal Communications • (2018-now)
Member of editorial board of scientific journal Czech Journal of Civil Engineering (2016-now)
Guest editor of scientific peer-reviewed journal Mathematical Problems in Engineering * (2015)
Member of editorial board of peer-reviewed journal Engineering Structures and Technologies (2012-now)
Member of editorial board of peer-reviewed Journal Civil Engineering and Management *• (2011-now)
Indexed on: *Web of Science (WOS) • Scopus

**Selected teaching activities**
*Lectures on*: Elasticity and plasticity (2000-now), Structural mechanics (2001-now).
*Tutorial classes on*: Elasticity and plasticity (1995-now), Statics of engineering structures II (1996-now), Reliability of engineering structures (1999), Automation of static calculations (2000), Fundamentals of structural mechanics (2001-now).

**Selected courses and training abroad**
Bauhaus-Universität Weimar, Faculty of Civil Engineering, Advanced Studies in Structural Engineering – CAE, Weimar, August 1st to August 14th, 1998.
Università degli Studi di Roma La Sapienza, October 25th to November 7th, 2005.

**Professional practice**
1995-2001 Designer of steel structures at the computation centre of the corporation Královopolská J.S.C., Czech Republic, specialized in calculation and designs of steel structures for nuclear power plants (Temelín, Mochovce).
2001-2003 Designer with the corporation Stress Analysis Group Ltd., specialized in static and dynamic analyses of load bearing steel structures.

**Awards and Honors**

- **Highly Cited Researcher awards** from Stanford University in collaboration with Elsevier: citation years 2019, 2020, 2021, 2022, 2023, 2024, 2025

**Awards in TOP 10 competitions for the best publishing results**

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|---|---|
| • Award of Dean, 5th place in faculty competition TOP10 (IF) in 2008 | Top10 for the best publishing results in 2008 |
| • Award of Dean, 1st place in faculty competition TOP10 (IF) in 2012 | Top10 for the best publishing results in 2012 |
| • Award of Rector, 9th place in university competition TOP10 (IF) in 2012 | Top10 Excelence for the best publishing results in 2012 |
| • Award of Dean, 1st place in faculty competition TOP10 (IF) in 2015 | Top10 for the best publishing results in 2015 |
| • Award of Dean, 3rd place in faculty competition TOP10 (IF) in 2016 | Top10 for the best publishing results in 2016 |
| • Award of Dean, 1st place in faculty competition TOP10 (IF) in 2017 | Top10 for the best publishing results in 2017 |
| • Award of Dean, 9th place in faculty competition TOP10 (IF) in 2018 | Top10 for the best publishing results in 2018 |
| • Award of Dean, 1st place in faculty competition TOP10 (IF) in 2019 | Top10 for the best publishing results in 2019 |
| • Award of Dean, 3rd place in faculty competition TOP10 (IF) in 2020 | Top10 for the best publishing results in 2020 |
| • Award of Dean, 1st place in faculty competition TOP10 (AIS) in 2021 | Top10 for the best publishing results in 2021 |

Awarded Recognition in Module M1, Methodology M17+ (2022). Diploma awarded by the Dean, Faculty of Civil Engineering, BUT.

Recognized by the Dean of the Faculty of Civil Engineering – Awarded the SIGNUM EXCELLENTIAE Medal, September 2024, for significant contributions to academic excellence.