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Education

- 1984 PhD in Structural Mechanics, Imperial College of Science & Technology, Department of Aeronautics.
Thesis advisor: Dr. A. S. L. Chan
- 1979 MSc in Concrete Structures, Imperial College of Science & Technology, Department of Civil Engineering.
Thesis advisor: Professor A. D. Edwards
- 1978 Diploma of Civil Engineering, National Technical University of Athens, Department of Civil Engineering.

Employment record

- 2014: Professor
Department of Structural Analysis, School of Civil Engineering, National Technical University of Athens
- 1988-2013: Lecturer, Assistant Professor, Associate Professor
Department of Structural Analysis, School of Civil Engineering, National Technical University of Athens
- 1985-1988: Civil Engineering Practice
- 1979-1980: Teaching Assistant
Department of Structural Analysis, School of Civil Engineering, National Technical University of Athens

Honors, Awards

- British Council Fellowship, 1982-1983
- Alexander Onassis Foundation Fellowship, 1980-1982.
- State Fellowship, National Technical University of Athens, 1976-1977.

Memberships

- Technical Chamber of Greece
- Hellenic Society of Civil Engineers
- Hellenic Union of Theoretical and Applied Mechanics
- Hellenic Union of Computational Mechanics
- International Association on Direct Methods

Teaching Activities

Undergraduate Courses

- Determinate Structures
- Indeterminate Structures
- Plastic theory of structures
- Special issues of finite element analysis

Postgraduate Courses

- Advanced plastic analysis of framed structures

Theses supervision

- 2 Doctoral theses completed, 4 running.
22 Postgraduate theses

Present Major Research Interests

Numerical algorithms & structural analysis, Graph theory & structural analysis, Mathematical programming & structural analysis, Inelastic analysis of structures, Static & dynamic analysis of structures, nonlinear analysis of reinforced concrete structures, large deformations, large displacements, direct methods, limit analysis, shakedown analysis.

Impact of Research work

- Adoption of work on reinforced concrete by the ADINA software.

International Journals

1. Member of the Editorial Board

- Advances in Concrete Construction
- International Journal of Bridge Engineering

2. Reviewer

- Advances in Engineering Software
- Arabian Journal for Science and Engineering (Springer)
- Archive of Applied Mechanics
- ASCE Journal of Engineering Mechanics
- ASCE Journal of Structural Engineering
- ASME Journal of Computational and Nonlinear Dynamics
- ASME Journal of Pressure Vessel Technology
- Bulletin of Earthquake Engineering
- Composites Part B: Engineering
- Computational Mechanics
- Computer Methods in Applied Mechanics & Engineering
- Computers & Concrete
- Computers & Structures
- Construction and Building Materials
- Earthquake Engineering & Engineering Vibration
- Earthquake Engineering & Structural Dynamics
- Earthquakes & Structures
- Engineering Computations
- Engineering Structures
- Engineering Transactions
- European Journal of Mechanics - A/Solids
- International Journal for Numerical Methods in Engineering
- International Journal of Mechanics and Materials in Design
- Journal of Constructional Steel Research
- Meccanica
- Optimization and Engineering
- Soil Dynamics and Earthquake Engineering
- Structural Concrete
- Structural Engineering & Mechanics
- The Structural Design of Tall and Special Buildings

Book(s)

1. K. Spiliopoulos and D. Weichert (Eds.), *Direct Methods for Limit States in Structures and Materials*, Springer Science + Business Media, Dordrecht, 2014.

Journal Articles & Chapters in refereed Books

1. A.S.L. Chan and K.V. Spiliopoulos, "A Simplified Method of Solution for the Short Cycle Creep-Plasticity Problem", *Comp. Meth. Appl. Mech. & Engng.*, Vol. 60, 1987, pp. 257-274.
2. K.M. Hsiao, F. Y. Hou and K.V. Spiliopoulos, "Large Displacement Analysis of Elasto-plastic Frames", *Comput. & Struct.*, Vol. 28, 1988, pp. 627-633.
3. S.A. Anagnostopoulos and K.V. Spiliopoulos, "An Investigation of Earthquake Induced Pounding Between Adjacent Buildings", *Earth. Engng. & Struct. Dynamics*, Vol. 21, 1992, pp. 289-302.
4. K.V. Spiliopoulos and P.G. Souliotis, "Automatic Collapse Load Analysis of Regular Plane Frames Using the Force Method", *Comput. & Struct.*, Vol. 64, No. 1-4, 1997, pp.531-540.
5. K.V. Spiliopoulos, "On the Automation of the Force Method in the Optimal Plastic Design of Frames", *Comp. Meth. Appl. Mech. & Engng.*, Vol. 141, No. 1-2, 1997, pp. 141-156.
6. M.D. Kotsovos and K.V. Spiliopoulos, "Modelling of Crack-closure for Finite Element Analysis of Structural Concrete", *Comput. & Struct.*, Vol. 69, 1998, pp. 383-398.

7. M.D. Kotsovos and K.V. Spiliopoulos, "Evaluation of Structural Concrete Design Concepts Based on Finite Element Analysis", *Journ. of Comp. Mech.*, Vol. 21, No. 4/5, 1998, pp. 330-338.
8. K.V. Spiliopoulos, "A Fully Automatic Force Method for the Optimal Shakedown Design of Frames", *Journ. of Comp. Mech.*, Vol. 23, No. 4, 1999, pp. 299-307.
9. K.V. Spiliopoulos, "Simplified Methods for the Steady State Inelastic Analysis of Cyclically Loaded Structures", In: D. Weichert and G. Maier (Eds.), *Inelastic Analysis of Structures under Variable Loads*, 2000, Kluwer Academic Publishers, Dordrecht, pp. 213-232.
10. K.V. Spiliopoulos, "A Simplified Method to Predict the Steady Cyclic Stress State of Creeping Structures", *ASME J. Appl. Mech.*, Vol. 69, 2002, pp. 148-153.
11. K.V. Spiliopoulos and G.Ch. Lykidis, "An Efficient Three-dimensional Solid Finite Element Dynamic Analysis of Reinforced Concrete Structures", *Earth. Engng. & Struct. Dynamics*, Vol. 35, 2006, pp. 135-157.
12. G.Ch. Lykidis and K.V. Spiliopoulos, "3D Solid Finite Element Analysis of Cyclically Loaded RC Structures Allowing Embedded Reinforcement Slippage", *ASCE Jnl. Struct. Engng.*, Vol.134, 2008, pp. 629-638.
13. K.V. Spiliopoulos, "Force Method – Based Procedures in the Limit Equilibrium Analysis of Framed Structures", In: D. Weichert and A. Ponter (Eds.), *Limit states of Materials and Structures, Direct Methods*, 2009, pp. 233-252.
14. K.V. Spiliopoulos and T.N. Patsios, "A Quick Estimate of the Strength of Uniaxially Tied Framed Structures", *J. Constr. Steel Research*, Vol. 65, 2009, pp. 1763-1775.
15. K.V. Spiliopoulos and T.N. Patsios, "An Efficient Mathematical Programming Method for the Elastoplastic Analysis of Frames", *Engng. Struct.*, Vol. 32, 2010, pp. 1199-1214.
16. K.V. Spiliopoulos and K.D. Panagiotou, "A Direct Method to Predict Cyclic Steady States of Elastoplastic Structures", *Comput. Methods Appl. Mech. Engrg.*, Vol. 223–224, 2012, pp. 186–198.
17. K.V. Spiliopoulos and N.G. Dais, "A Powerful Force-based Approach for the Limit Analysis of Three-dimensional Frames", *Arch. Appl. Mech.*, Vol. 83, 2013, pp. 723-742.
18. K.V. Spiliopoulos and T.N. Patsios, "Numerical Analysis of Nonholonomic Elastoplastic Frames by Mathematical Programming", In: G. de Saxcé, A. Oueslati, E. Charkaluk, J-B. Tritsch (Eds.), *Limit State of Materials and Structures, Direct Methods 2*, Springer, 2013, pp.129-144.
19. K.V. Spiliopoulos and K.D. Panagiotou, "The Residual Stress Decomposition Method (RSDM): A Novel Direct Method to Predict Cyclic Elastoplastic States", In: K. Spiliopoulos and D. Weichert (Eds.), *Direct Methods for Limit States in Structures and Materials*, Springer Science + Business Media, Dordrecht, 2014, pp. 139-155.
20. G.Ch. Lykidis and K.V. Spiliopoulos, "An efficient numerical simulation of the cyclic loading experiments on RC structures", *Comput. & Concr.*, Vol. 13, 2014, pp. 343-359.
21. K.V. Spiliopoulos and K.D. Panagiotou, "A Residual Stress Decomposition based Method for the Shakedown analysis of structures", *Comput. Methods Appl. Mech. Engrg.*, Vol. 276, 2014, pp. 410-430.
22. L.T. Stavridis, K.V. Spiliopoulos, A.V. Afantenou and I.A. Kapogiannis, "Appraisal of simplified methods for the analysis of box-girder bridges", *Intern. Jnl. of Bridge Engrg.*, Vol. 3, No. 1, 2015, pp. 55-64.
23. K.V. Spiliopoulos and K.D. Panagiotou, "RSDM-S: A Method for the Evaluation of the Shakedown Load of Elastoplastic Structures", In: P. Fuschì, A.A. Pisano, D. Weichert (Eds.), *Direct methods for limit and shakedown analysis of structures: Advanced computational algorithms and material modelling*, Springer International Publisher, Netherlands, 2015, pp. 159-176.
24. K.D. Panagiotou and K.V. Spiliopoulos, "Shakedown Analysis of Civil Engineering Structural Elements", *Proc. ICE, Eng. & Comp. Mech.*, Vol. 68, No.3, 2015, pp. 90-98.
25. K.V. Spiliopoulos and K.D. Panagiotou, "A Numerical Procedure for the Shakedown Analysis of Structures under Cyclic Thermomechanical Loading", *Arch. Appl. Mech.*, Vol. 85, 2015, pp. 1499–1511.
26. A. Shokry and K.V. Spiliopoulos, "Shear Locking in Bilinear Quadratic Plane Elements", *Int. Jnl. Civ. & Struct. Engrg.*, Vol. 3, No. 1, 2016, pp. 325-329.
27. K.D. Panagiotou and K.V. Spiliopoulos, "Assessment of the Cyclic Behavior of Structural Components Using Novel Approaches", *ASME JPVT*, Vol. 138, 2016, p. 041201.
28. M. Vathi, S. Karamanos, I. Kapogiannis and K.V. Spiliopoulos, "Performance Criteria for Liquid Storage Tanks and Piping Systems Subjected to Seismic Loading", *ASME JPVT*, Vol. 139, 2017, p. 051801-1.
29. K.D. Panagiotou and K.V. Spiliopoulos, "Efficient Shakedown Solutions in Complex Loading Domains", In: O. Barrera, A. Cocks, A. Ponter (Eds.), *Advances in Direct Methods for Materials and Structures*, Springer International Publishing AG, 2017, pp. 163-177.

30. K.V. Spiliopoulos and K.D. Panagiotou, "An Enhanced Numerical Procedure for the Shakedown Analysis in Multidimensional Loading Domains", *Comput. & Struct.*, 2017, Vol. 193, 2017, pp. 155–171.
31. T.N. Patsios and K.V. Spiliopoulos, "A force-based Mathematical Programming Method for the Incremental Analysis of 3D Frames with Non-holonomic hardening Plastic Hinges", *Comput. & Struct.*, Vol. 208, 2018, pp. 51-74.
32. D.I. Manolas, C.G. Karvelas, I.A. Kapogiannis, K.V. Spiliopoulos, S.G. Voutsinas, "A comprehensive method for the structural design and verification of the INNWIND 10MW tri-spar floater", *Journal of Physics: Conference Series*, 2018, 1104(1),012025.
33. M.K. Kardala and K.V. Spiliopoulos, "A more realistic estimation of ductility in RC beams through 3D finite elements", 2019, (submitted for publication).
34. A.N. Panteli and K.V. Spiliopoulos, "Degenerate-continuum vs. Geometrically-exact beam models with large rotations, 2019, (submitted for publication).

International Conferences

1. A.S.L. Chan and C.B. Spiliopoulos, "Approximate Creep Analysis for Cyclic Change of Loading and Temperature", *Proc. 7th SMiRT Conf.*, L9/5, Chicago, 1983.
2. S.A. Anagnostopoulos and K.V. Spiliopoulos, "Analysis of Building Pounding due to Earthquake", *Proc. Eurodyn 90*, Bochum, Germany, 1990.
3. K.V. Spiliopoulos and S.A. Anagnostopoulos, "Earthquake Induced Pounding in Adjacent Buildings", *Proc. 10th World Conf. on Earth. Engng*, Madrid, Spain, 1992.
4. K.V. Spiliopoulos, "On the Numerical Implementation of the Short Cycle Creep-plasticity Problem", *Proc. 3rd National Congress on Mechanics*, Athens, Greece, 1992.
5. K.V. Spiliopoulos, "Numerical Implementation of Simplified Methods of Inelastic Analysis of Structures Subjected to Short Period Loads", *Proc. 12th SMiRT Conference*, L11/7, Stuttgart, Germany, 1993.
6. K.V. Spiliopoulos and P.G. Souliotis, "Automatic Collapse Load Analysis of Regular Plane Frames Using the Force Method", *Proc. 2nd CST Conference*, Athens, Greece, 1994.
7. K.V. Spiliopoulos, "Automating the Force Method in the Limit Analysis of Plane Frames", *4th COMPLAS Conference*, Barcelona, Spain, 1995.
8. K.V. Spiliopoulos, "Limit Analysis of Plane Frames Using the Force Method", *1st Eurosteel Conference*, Athens, Greece, 1995.
9. K.V. Spiliopoulos, "A Quick Way to Predict the Long Term Creep Behaviour of Structures Subjected to Cyclic Loading of Short Period", *4th National Congress on Mechanics*, Xanthi, Greece, 1995.
10. M.D. Kotsovos and K.V. Spiliopoulos, "Finite Element Modelling of Cracking Processes in Structural Concrete Under Load", *Proc. 2nd National Congress on Computational Mechanics*, Chania, Greece, 1996.
11. K.V. Spiliopoulos and S.A. Anagnostopoulos, "Measures Against Earthquake Pounding Between Adjacent Buildings", *Proc. 11th World Conf. on Earth. Engng.*, Acapulco, Mexico, 1996.
12. K.V. Spiliopoulos, "On the Automatic Limit and Shakedown Optimal Plastic Design of Frames", *Proc. NAFEMS World Congress*, Stuttgart, Germany, 1997.
13. K.V. Spiliopoulos and A.V. Menounos, "A computationally efficient way to construct the flexibility matrix of skeletal structures", *Proc. 5th National Congress on Mechanics*, Ioannina, Greece, 1998.
14. K.V. Spiliopoulos, "Simplified Methods for the Steady State Analysis of Structures that Creep Under Large Period Loads", *3rd GRACM Congress on Computational Mechanics*, Volos, Greece, 1999.
15. K.V. Spiliopoulos and P.S. Dodos, "On the Numerical Performance of the Two-surface Truss Model for the Analysis of Thin Shallow Shells", *Proc. 4th Int. Coll. On Comput. of Shells & Spat. Struct.*, IASS-IACM, Chania, Greece, 2000.
16. K.V. Spiliopoulos, "Numerical Implementation of Simplified Methods of Analysis for Structures that Creep Under Large Period Cyclic Loads", *Proc. ECCOMAS Conf.*, Barcelona, Spain, 2000.
17. K.V. Spiliopoulos, "On the Numerical Performance of a Simplified Method of Analysis for Creeping Structures Loaded Cyclically", *Proc. 6th National Congress of Mechanics*, Thessaloniki, Greece, 2001.
18. K.V. Spiliopoulos, "Numerical Investigation of Simplified Methods of Analysis of Cyclically Loaded Creeping Structures", *Proc. ECCM-2001 Conf.*, Cracow, 2001.
19. K.V. Spiliopoulos and P.A. Vitaliotis, "Elastoplastic Analysis of Frames by the Force Method", *2nd Steel Congress*, Patras, Greece, 2002
20. K.V. Spiliopoulos and G.Ch. Lykidis, "On the Efficiency of the Large Displacement Elastoplastic Analysis of Plane Frames", *4th GRACM Congress on Computational Mechanics*, Patras, Greece, 2002.

21. K.V. Spiliopoulos and G. Ch. Lykidis, "Three dimensional finite element analysis of reinforced concrete under dynamic loading", Proc. ECCOMAS Conf., Jyväskylä, Finland, 2004.
22. K.V. Spiliopoulos and A.G. Politis, "On the Limit Analysis of Plane Structures", 7th National Congress on Mechanics, Chania, Greece, 2004.
23. K.V. Spiliopoulos and G.Ch. Lykidis, "Towards a Robust Dynamic Analysis of Reinforced Concrete Structures", Proc. WCCM VI Conf., Beijing, China, 2004.
24. K.V. Spiliopoulos and A.G. Politis, "Numerical Advances in the Limit Analysis of Structures", 5th GRACM Congress on Computational Mechanics, Limassol, Cyprus, 2005.
25. K.V. Spiliopoulos and T.N. Patsios, "Limit Analysis of Cabled-Tied Structures", Proc. ECCM 2006, Lisbon, Portugal, 2006.
26. Ch.A. Kaklamanis and K.V. Spiliopoulos, "Various Issues in the Large Strain Theory of Trusses", Proc. STAMM 2006, Vienna, Austria, 2006.
27. K.V. Spiliopoulos and G.Ch. Lykidis, "Finite Element Analysis of RC Frame Joints Under Cyclic Loading", Proc. ECCOMAS Them. Conf. on Comput. Meths. in Struct. Dyn. and Earth. Engng., Rethymno, Greece, 2007.
28. Ch.A. Kaklamanis and K.V. Spiliopoulos, "A General Formulation for Large Strains Hyperelastic Trusses", 8th HSTAM Intern. Congr. on Mech., Patras, Greece, 2007.
29. K.V. Spiliopoulos and M. Marinou, "Automatic Limit Analysis of Three Dimensional Frames", Proc. COMPLAS 2007, Barcelona, Spain, 2007.
30. K.V. Spiliopoulos and T.N. Patsios, "Implementation of the Force Method in the Elastoplastic Analysis of Frames". Proc. IACM/ECCOMAS, Venice, 2008.
31. K.V. Spiliopoulos and T.N. Patsios, "Pushover Analysis by the Force Method", Proc. GRACM, Thessaloniki, 2008.
32. K.V. Spiliopoulos and G.Ch. Lykidis, "Robust Numerical Analysis of RC Structures under Cyclic Displacements", Proc. ECCOMAS Them. Conf. on Comput. Meths. in Struct. Dyn. and Earth. Engng., Rhodes, Greece, 2009.
33. K.V. Spiliopoulos, M. Antoninis, G. C. Lykidis, "Numerical Simulation of Bond-Slip in the Analysis of Reinforced Concrete Structures under Cyclic Loading", Proc. ECCM. 2010, Paris, France, 2010.
34. K.V. Spiliopoulos and N. Dais, "Limit Load Evaluation of Three Dimensional Framed Structures", 9th HSTAM Intern. Congr. on Mech., Limassol, Cyprus, 2010.
35. K.V. Spiliopoulos and K. D. Panagiotou, "A Direct Method for the Cyclic Elastoplastic Analysis of Simple Structures", Proc. 3rd Intern. Conf. Nonlinear Dynamics, Kharkov, 2010.
36. K.V. Spiliopoulos and K. D. Panagiotou, "A Computational Procedure for the Cyclic Steady State Elastoplastic Analysis of Structures", Proc. COMPLAS XI, Barcelona, 2011.
37. L.T. Stavridis, K.V. Spiliopoulos, A. Ioannidou, "Evaluation of the Load Carrying Capacity of a Bridge System Under External Prestressing", Proc. IBSBI 2011 Conf., Athens, 2011.
38. K.V. Spiliopoulos and I.A. Kapogiannis, "Elastoplastic Analysis of Frames with Large Displacements and Plastic Unstressing", 10th HSTAM Intern. Congr. on Mech., Chania, 2013.
39. K.V. Spiliopoulos and K.D. Panagiotou, "A Computational Method for the Shakedown Analysis of Structures", *Euromech 548, Direct and Variational Methods for non smooth problems in Mechanics*, Amboise, 2013.
40. T.N. Patsios and K.V. Spiliopoulos, "A force-based formulation for the 2nd order elastoplastic analysis of frames", 2nd ECCOMAS Young Invest. Conf., Bordeaux, 2013.
41. K.D. Panagiotou and K.V. Spiliopoulos, "Shakedown analysis of structures under thermomechanical loading based on the RSDM", WCCM-XI, Barcelona, 2014.
42. T.N. Patsios and K.V. Spiliopoulos, "A force-based formulation for the analysis of frames with non-holonomic hardening plastic hinges", WCCM-XI, Barcelona, 2014.
43. K.V. Spiliopoulos and I.A. Kapogiannis, "Computational aspects in the large displacement inelastic analysis of frames with plastic unstressing", WCCM-XI, Barcelona, 2014.
44. A.N. Panteli and K.V. Spiliopoulos, "A critical review of the beam models used in the analysis of the wind turbine blades", WCCM-XI, Barcelona, 2014.
45. L. Stavridis, K. Spiliopoulos, A. Afantenou, I. Kapogiannis, "Appraisal of simplified methods for the analysis of box-girder bridges", Proc. IBSBI 2014 Conf., Athens, 2014.
46. M. Vathi, S. Karamanos, I. Kapogiannis, K.V. Spiliopoulos, "Performance Criteria For Liquid Storage Tanks and Piping Systems Subjected to Seismic Loading", Proc. PVP 2015 Conf., Boston, USA, 2015.

47. T.N. Patsios and K.V. Spiliopoulos, "A Force - Based Formulation for the Analysis of 3-Dimensional Inelastic Structural Frames", ECCOMAS Congress, Crete, 2016.
48. A.N. Panteli, D.I. Manolas, K.V. Spiliopoulos, "A Geometrically Exact Timoshenko Beam Model for the Aeroelastic Analysis of the Wind Turbine Blades", ECCOMAS Congress, Crete, 2016.
49. K.V. Spiliopoulos, K.D. Panagiotou, I.A. Kapogiannis, "Advances of the RSDM to the Shakedown Analysis of Structures", ECCOMAS Congress, Crete, 2016.
50. A.G. Stathas and K.V. Spiliopoulos, "Estimation of Shakedown Loads of flexible pavements", BCRAA 2017, Athens, 2017.
51. A. Loizos, K.V. Spiliopoulos, B. Cliatt and K. Gkyrtis, "Structural Pavement Responses using Nonlinear Finite Element Analysis of Unbound Materials", BCRAA 2017, Athens, 2017.
52. M.K. Kardala and K.V. Spiliopoulos, "Estimation of plastic hinge properties in RC beams using 3D nonlinear finite element analysis", COMPLAS 2017, Barcelona, 2017.
53. I.A. Kapogiannis and K.V. Spiliopoulos, "Prediction of ratcheting in piping elements using direct methods", COMPLAS 2017, Barcelona, 2017.
54. A.N. Panteli and K.V. Spiliopoulos, "Revision of Beam Modeling with Large Rotations", Proc. 9 th GRACM Conference, Chania, Greece, 2018.
55. M.K. Kardala and K.V. Spiliopoulos, "3D Nonlinear FE Assessment of Plastic Hinges in RC Elements under Uniaxial and Biaxial Bending", Proc. 16th ECEE Conference, Thessaloniki, Greece, 2018.

Invited Lecturer at International Symposia

1. K.V. Spiliopoulos, "On the Automation of the Force Method to the Plastic Limit and Shakedown Design of Frames", Intern. Symposium Dynamics of Continua, 9-13 September 1996, Bad Honnef, Germany.
2. K.V. Spiliopoulos, "Fully Automatic Limit and Shakedown Optimal Plastic Design of Plane Frames by the Force Method", 2nd Serbian - Greek Symposium on Solid Mechanics, 14-15 November 1996, Beograd, Yugoslavia.
3. K.V. Spiliopoulos, "On the Numerical Implementation of Simplified Methods of Inelastic Analysis of Cyclically Loaded Structures", Euromech 385 Colloq., September 1998, Aachen, Germany.
4. K.V. Spiliopoulos, "Direct Methods of Inelastic Analysis of Cyclically Loaded Structures", 4th German-Greek-Polish Symposium Advances in Mechanics, 18-22 September 2001, Warsaw-Pultusk, Poland.
5. K.V. Spiliopoulos and G.Ch. Lykidis, "Towards a Robust 3D Solid Finite Element Analysis of Reinforced Concrete Structures", 6th German-Greek-Polish Symposium on Recent Advances in Mechanics, 17-21 September 2007, Alexandroupolis, Greece.
6. K.V. Spiliopoulos, "Force method based procedures in the limit equilibrium analysis of 2D & 3D framed structures", International Workshop on Direct Methods-Shakedown & Limit Analysis, 8-9 November 2007, Aachen, Germany.
7. K.V. Spiliopoulos and T.N. Patsios, "An Efficient Mathematical Programming Approach to the Elastoplastic Analysis of Framed Structures", 3rd Serbian-Greek Symposium 'Recent Advances in Mechanics', Novicad, Serbia, 2008.
8. K.V. Spiliopoulos and T.N. Patsios, "Efficient Mathematical Programming Procedures in the Elastoplastic Analysis of Frames", 2rd International Workshop on Direct Methods, 22-23 October 2009, Lille, France.
9. K.V. Spiliopoulos and M. Antoninis, "Towards an "Exact" Numerical Modeling of Bond-Slip in the Analysis of RC Structures", 7th German-Greek-Polish Symposium on Recent Advances in Mechanics, 19-22 September 2010, Poznan, Poland.
10. K.V. Spiliopoulos and K.D. Panagiotou, "A Direct Method For The Cyclic Plasticity Of Structures", 4th Serbian-Greek Symposium on Recent Advances in Mechanics, September 9-10 2011, Vlasina Lake, Serbia.
11. K.V. Spiliopoulos and K.D. Panagiotou, "The Residual Stress Decomposition Method (RSDM): A Novel Direct Method to Predict Cyclic Elastoplastic States", 3rd International Workshop on Direct Methods, 20-21 February 2012, Athens, Greece.
12. K.V. Spiliopoulos and K.D. Panagiotou, "A New Numerical Approach for the Evaluation of the Shakedown Load of Elastoplastic Structures", 8th German-Greek-Polish Symposium on Recent Advances in Mechanics, 9-13 September 2013, Goslar, Germany.
13. K.V. Spiliopoulos and K.D. Panagiotou, "Extension of the RSDM to the Shakedown Analysis of Structures", 4th International Workshop on Direct Methods, 1-2 October 2013, Reggio di Calabria, Italy.
14. K.V. Spiliopoulos and K. D. Panagiotou, 'Shakedown Solutions by the RSDM-S in a Multiple Loading Domain', 5th International Workshop on Direct Methods, 7-8 September 2015, Oxford, England.

15. K.V. Spiliopoulos and K. D. Panagiotou, 'Efficient Asymptotic State Solutions of Cyclically Loaded Elastoplastic Structures', 9th German-Greek-Polish Symposium on Recent Advances in Mechanics, 5-9 September 2016, Chania, Greece.

List of funded projects

1. "Neighboring building pounding under earthquake loading", PI: S.A. Anagnostopoulos, Partner: K.V. Spiliopoulos, GSRT, 1987-90, 3000 €.
2. "Direct interaction of two or more neighboring structures under severe seismic loading", PI: M. Papadrakakis, Partner: K.V. Spiliopoulos, Earthquake Planning and Protection Organization, 1995-97, 3000€.
3. Vulnerability of buried pipelines under seismic loading, PI: J.T. Katsikadelis, Partner: K.V. Spiliopoulos, EEC 1993-95, 108000 ECU.
4. "Earthquake resistant design-Estimation of the strength of RC walls and short columns, based on the causes of their failure", PI: M.D. Kotsovos, Partner: K.V. Spiliopoulos, Earthquake Planning and Protection Organization, 1995-97, 3000 €.
5. "Development of an analytic method to estimate the strength of RC elements under seismic excitation", PI: K.V. Spiliopoulos, ICCS Institute (NTUA) 2000-01, 11700 €.
6. "Development of a simplified method for the inelastic analysis of structures under cyclic loading", PI: K.V. Spiliopoulos, NTUA 'THALIS - Program for financial support of basic research, 2003-2005, 7000 €.
7. "Dynamic inelastic analysis of RC structures", PI: K.V. Spiliopoulos, IRAKLITOS – Financial support for basic research, 2002-2007, 32820 €.
8. "Development of a force method based numerical procedure for the inelastic analysis of framed structures with softening or/and geometric nonlinearity, and applications to civil engineering structures", PI: K.V. Spiliopoulos, NTUA PEVE 2010 - Program for financial support of basic research, 2010-2012, 15000 €.
9. "I.B.S.B.I. 2014: Innovations on bridges and soil-bridge interaction", PI: K.V. Spiliopoulos, Private funding, 2014, 9100 €.
10. "Development of know-how on the aeroelastic analysis & design-optimization of wind turbines", PI: S. Voutsinas, Partner: K.V. Spiliopoulos, GSRT THALES, 2012-2015, 600000 €.
11. "'RASOR'- Vulnerability and Risk Assessment for the seismic protection of industrial facilities", PI: V. Papadopoulos, Partner: K.V. Spiliopoulos, GSRT THALES, 2012-2015, 600000 €.
12. Estimation of safety margins in piping systems, against seismic action, using direct methods, PI: K.V. Spiliopoulos, Research Project for Excellence IKY/Siemens, 2015-17, 50000 €.