

Janusz Rębielak
CURRICULUM VITAE
(updated on 5th April, 2019)

Basic data:

- I was born on 10th October 1955 in Bierutów near Wrocław in Poland,
- I completed the High School of Juliusz Słowacki in Oleśnica,
- I graduated from the Department of Architecture at the Wrocław University of Technology in 1979, in Poland,
- I got the Ph.D. degree in 1982 in the Institute of Architecture and Town Planning at the Wrocław University of Technology,
- I got the D.Sc. degree in 1993 at the Department of Architecture at the Wrocław University of Technology,
- the title of professor has been conferred on me by the decree of the President of the Republic of Poland issued in June 2006,
- I am married since 1980, I have three children.

Range of scientific activity:

- the main domain of my research interests are numerical methods of shaping and design of the space structures and their applications as the lightweight structural systems of the large span roofs; among them are methods of calculations of statically indeterminate structures; moreover systems of tall buildings and foundation structures; the innovative combined foundation system, which makes possible the safe foundation of the heavily loaded building on subsoil of small load carrying ability located particularly in earthquake areas or in the mining damage sectors, the buildings designed by means of the application of these structural systems may obtain interesting and individual architectonic views; I am also involved in working out innovative concepts of technical solutions for retractable and foldable roof structures, which can make possible to close and then to open fast and smoothly the covered area,
- to the most important my achievements I count the followings: the innovative system of combined foundation considered as the ground-breaking technical invention in the safe foundation of buildings; the two-stage method of calculation of statically indeterminate trusses, which among others makes possible easier the initial process of their structural design; several types of structural systems of the lightweight roof covers like the crystal tension-strut structure or a group of the type of VA(TH) structures; the method of secondary grid deformation, which enables to design the most regular triangular grids for geodesic domes,
- so far I have published 206 scientific papers, including 3 monographs and 4 patents; total number of all publications is equal to 219,
- since 1st October 2006 I am chairman of the Committee for Architecture and Town Planning of Wrocław Branch of the Polish Academy of Sciences (PAN); term 2006-2010, term 2011-2014, 2015-2018 and term 2019-2022,

- I am member of the Committee for Architecture and Town Planning of the Polish Academy of Science (PAN), term 2016-2020, I was also member of this Committee in term 2003-2006,
- at present I am member or in the past I was member of some national and international scientific societies as well as a member of scientific boards or editorial committees of national and international scientific journals,

- I was an organizer of some international scientific symposiums, conferences and workshops, among them were as follows:
 - Mini-Symposium (MS-22) entitled „Methods of approximate calculations of statically indeterminate systems” carried out during proceedings of The 9th International Conference on Computational Methods (ICCM2018), August 06-10, 2018, in Rome, in Italy,
 - Mini-Symposium (MS-057) „Analysis and Design Methods of Building Structures Located in Earthquake Areas” organized during proceedings of The 8th International Conference on Computational Methods (ICCM2017), July, 25-29, 2017, in Guilin, in China,
 - Mini-Symposium (MS965) „Principle of superposition in structural analysis and design” , which was held during 12th World Congress on Computational Mechanics (WCCM XII) and 6th Asia-Pacific Congress on Computational Mechanics (ECCM VI), July 24-29, 2016, in Seoul, in Korea,
 - Mini-Symposium (MS252) „Methods of approximate static analyses of complex structural systems”, held during 11th World Congress on Computational Mechanics (WCCM2014), 5th European Conference on Computational Mechanics (ECCM V) and 6th European Conference on Computational Fluid Dynamics (ECFD VI), in July 20 - 25, 2014, in Barcelona, in Spain,
- I organized the invited scientific session “Design Methods of Spatial Structures in Architecture and Civil Engineering” during The 10th World Multi-Conference on Systemics, Cybernetics and Informatics in July 2006, in Orlando, Florida, USA,
- I was a chairman of Organizing Committee of the International Conference “Symmetry of Forms and Structures”, proceedings of which were held in September 14-19, 2009 in Wrocław and Kraków, in Poland,
- I was an organizer of the international scientific workshops “Innovative Structural Systems in Architecture”, first edition of which was held in 6-8 November 2014, the second edition was held in 3-5 November 2016, while the third edition - connected with celebration of Poland’s 100th anniversary of independence - was held in 9-10 November 2018; these workshops were items of the activity schedule of the Committee for Architecture and Town Planning of the Polish Academy of Sciences (PAN), Wrocław Branch, which I lead,

- I led six completed grants awarded by former KBN (State Committee for Research of the Republic of Poland) and currently awarded by the Ministry of Science and Higher Education in Warsaw and also by the National Centre of Science in Cracow.

Academic affiliations:

- since 1st March 2008 I am employed as the professor at The Tadeusz Kosciuszko Cracow University of Technology, at the Faculty of Architecture, in Institute of Engineering Design (A-4), initially in Division of Construction Engineering (A-42),

- since 1st September 2017 I am head of Chair of Structures and Construction Engineering (A-42),
- in the period 1st February 2016 - 31st August 2017 I was a head of Laboratory of Building Structures (A-44),
- since November 2015 I am head of Postgraduate Study “Building Information Modeling – digital technologies in architecture and construction”,

- since 1982 until 2001 I was employed in the Division of Building Structures at the Department of Architecture of the Wroclaw University of Technology,
- since the 1st January 1993 I was the acting manager of the Division and since the day of the 1st August 1994 until 31st January 2001 I was head of the Division of Building Structures at the Department of Architecture of the Wroclaw University of Technology,
- since the 1st February 2001 till 30th June 2007 I was head of the Division of Structures and Building Engineering at the Department of Architecture of the Wroclaw University of Technology; after the cancellation of the Division of Building Engineering its staff was incorporated into the staff of the Division of Building Structures, which took the new name,

- since 1981 until 1997 I gave lectures on *Engineering design* at the Department of the Interior Architecture and Industrial Design of the present Academy of Fine Arts in Wroclaw,

- in academic year 1984/85 I worked as a research fellow at the Department of Architecture of Delft University of Technology, the Netherlands,

- between 1st April 2001 and 1st February 2002 I was a visiting research fellow in Kawaguchi Lab (Shell and Spatial Structures Laboratory) in the Institute of Industrial Science at the University of Tokyo, in Japan due to the fellowship awarded by the JSPS (Japan Society for the Promotion of Science),

- since 1st September 2004 until 31st January 2007 I was also employed as a professor in The University of Economy in Bydgoszcz, where I was a head of the Laboratory of Building Structures and Advanced Technology,

- I am supervisor of 7 completed doctor’s theses and supervisor of 57 graduate and undergraduate diplomas.

Professional activities:

- I have the qualifications for the architectural design without any limits (in Poland),
- in the terms between 1998-2002 and 2005-2013 I managed my own design studio for preparing projects of various types of architectural objects and also prepared technical documentations for various types of architectonic objects and making projects for architectonic competitions, three of them were awarded.

Other interest:

history, aviation, music, fine arts.

Main Honours and Awards:

I obtained the awards of the Rector of the Wroclaw University of Technology (1982, 2004), awards of the Dean of Department of Architecture of the Wroclaw University of Technology (1990, 1993, 1998, 2000, 2004), The Silver Order of Merit (1998), The Golden Order of Merit (2004) and The Knight's Cross of the Order of Polonia Restituta (2014).

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LIST OF PUBLICATIONS

(updated on April 5th, 2019)

1. Rębielak Janusz: *Przykłady zastosowania zasady superpozycji w analizie statycznej i w projektowaniu budowlanym (Examples of application of principle of superposition in statical analysis and in engineering design)*, Technologie Budowlane. Konstrukcje i Materiały, Wydawnictwo Politechniki Krakowskiej, ISBN 978-83-65991-18-8, Kraków, 2018, pp. 93-108.
2. Rębielak Janusz: *Foundation structure proposed for earthquake areas*, Proceedings of the 7th International Conference on Protection of Structures against Hazards, 29-31 October 2018, Hanoi, Vietnam, ISBN: 978-981-11-7777-4, pp. 179-184.
3. Rębielak Janusz: *O kształtowaniu konstrukcyjnym lekkich przekryć prętowo-ciężnowych*, Inżynieria i Budownictwo, nr 9, 2018, pp. 473-476.
4. Rębielak Janusz: *Analysis of the results obtained from the application of the two-stage method with calculations of some statically indeterminate trusses*, Proceedings of The 9th International Conference on Computational Methods (ICCM2018), 06-10 August 2018, Rome, Italy, Published by Scientech Publisher LLC, USA, ISSN 2374-3948 (online), pp. 347-355.
5. Rębielak Janusz: *Two-stage method applied in calculations for statically indeterminate truss of larger span*, Proceedings of The 9th International Conference on Computational Methods (ICCM2018), 06-10 August 2018, Rome, Italy, Published by Scientech Publisher LLC, USA, ISSN 2374-3948 (online), pp. 356-363.
6. Rębielak Janusz: *Examples of applications of two-stage method in calculations of statically indeterminate trusses*, International Journal of Computational Methods Vol. 15, No. 5, 2018, DOI: 10.1142/S0219876218440097.
7. Rębielak Janusz: *Simple method of approximate calculation of statically indeterminate trusses*, International Journal of Computational Methods, Vol. 15, Issue 1, 2018, DOI: 10.1142/S0219876218400261.
8. Rębielak Janusz: *Structures designed in two stages*, Proceedings of 11th International Congress on Civil Engineering, 8-10 May, 2018, University of Tehran, Tehran, Iran.
9. Rębielak Janusz: *System of combined foundation as base for mega-structures*, Proceedings of IABSE Spring Conference: Engineering the Developing World, 25-27 April 2018, Kuala Lumpur, Malaysia, pp. 75-80.
10. Rębielak Janusz: *Modele numeryczne w projektowaniu struktur nośnych budynków wysokich (Numerical models in designing of supporting structures of tall buildings)*, Kwartalnik Architektury i Urbanistyki, Komitet Architektury i Urbanistyki Polskiej Akademii Nauk, ISSN 0023 – 5865, Indeks 234540, Volume LXII, No 3, 2017, pp. 43-68.

11. Rębielak Janusz: *Examples of application of numerical models in engineering and architectonic design*, Proceedings of The XX Generative Art Conference, Ravenna, Italy, December 12-15, 2017, pp. 205-213. (<http://www.generativeart.com>)
12. Rębielak Janusz: *Przykład zastosowania metody dwuetapowej w rozwiązywaniu kratownic obciążonych niesymetrycznie (Example of application of two-stage method in calculations of trusses loaded in non-symmetric way)*, MECHANIK, Nr 7, 2017, pp. 585-587.
13. Rębielak Janusz: *Propozycje zastosowania układów prętowo-ciężnowych w konstrukcjach budowlanych (Proposals of applications of tension-strut systems in building structures)*, MECHANIK, Nr 7, 2017, pp. 582-584.
14. Rębielak Janusz: *Proposals for the application of space structures in the design of the main support structures of tall buildings*, Czasopismo Techniczne, 2-A (8)/2016, pp. 147-161.
15. Rębielak Janusz: *Symmetric forms applied in architectonic and engineering design*, Proceedings of ISIS-Symmetry 10th Congress-Festival "Urban Harmony", Adelaide, Australia, 1-6 December, 2016, The Journal of the International Society for the Interdisciplinary Study of Symmetry: Art and Science, Eds.: L. Arnold, D. Nagy and J.M. Vandoulakis, Nos 1-4, 2016, pp. 118-121.
16. Rębielak Janusz: *Simple method of approximate calculation of statically indeterminate trusses*, Proceedings of The 7th International Conference on Computational Methods (ICCM2016), August, 1-4, 2016, University of California, Berkeley, USA, pp. 748-753.
17. Rębielak Janusz: *Brief information about activities of the Committee for Architecture and Town Planning of Wrocław Branch of the Polish Academy of Sciences* – in Polish, Architectus, No 2 (46), 2016, pp. 153-159.
18. Rębielak Janusz: *Recommended shape of combined foundation* – in Polish with abstract in English, MECHANIK, No 7, 2016, pp. 808-809.
19. Rębielak Janusz: *Systemowy fundament zespolony (System of combined foundation – in Polish)*, Patent No 221971, Patent Office of the Republic of Poland, 2016, Patent Application No P.394745, 2011.
20. Rębielak Janusz: *Some structural systems proposed for tall buildings located in earthquake areas*, 6th International Conference on Earthquake and Structures, Academic Center for Education, Culture and Research (ACECR), Shahid Bahonar University, Kerman, Iran, October 14-15, 2015, pp. 431-434.
21. Rębielak Janusz: *Proposals of application of system of combined foundation for buildings located in earthquake areas and in sea bays*, Iranian Journal of Structural Engineering, 2(1), 2015, pp. 48-54.
22. Rębielak Janusz: *Modele numeryczne wybranych rozwiązań architektonicznych i konstrukcyjnych (Numerical models of selected architectonic and structural solutions)* - in Polish with abstract in English, MECHANIK, No 7, July, 2015, p. 555, paper published on attached CD, pp. 725-732.
23. Rębielak Janusz: *Przywracanie do pionu budynków pochylonych za pomocą systemu fundamentu zespolonego (Bringing inclined buildings back to upright position by application of*

system of combined foundation) - in Polish with abstract in English, MECHANIK, No 7, July, 2015, p. 555, paper published on attached CD, pp. 733-736.

24. Rębielak Janusz, Ishikawa Koichiro: *Przykłady zastosowania języka programowania Formian w kształceniu inżynierskim i architektonicznym oraz w praktyce projektowej (Examples of application of programming language Formian in engineering and architectonic education and in professional design – in English)* - in Polish with abstract in English, MECHANIK, No 7, July, 2015, p. 555, paper published on attached CD, pp. 737-744.

25. Rębielak Janusz: *Examples of application of principle of superposition in the design of structural systems and in static analyses*, Journal of Mathematics and System Science, Vol. 5, No 4 (April 2015), pp. 150-155.

26. Rębielak Janusz: *Design of roof cover structures by help of numerical models defined in Formian*, Journal of Civil Engineering and Architecture, March 2015, Volume 9, No. 3, pp. 245- 256.

27. Rębielak Janusz: *Designing of structural systems with application of principle of superposition*, Czasopismo Techniczne - Technical Transactions, Issue 8-A(15)/2014, pp. 71-76.

28. Rębielak Janusz: *Structural systems generated for various architectonic purposes*, Proceedings of XVII Generative Art Conference, eds. C. Soddu and E. Colabella, 16-19 December, 2014, Rome, Italy, p. 23, full paper on the attached CD.

29. Rębielak Janusz: *Structural systems composed of concentric hoops and designed for lightweight domes of large spans*, Journal of Civil Engineering and Architecture, September 2014, Volume 8, No. 9, pp. 1121-1128.

30. Rębielak Janusz: *New method of approximate calculations of statically indeterminate trusses*, 11th World Congress on Computational Mechanics (WCCM2014), 5th European Conference on Computational Mechanics (ECCM V) and 6th European Conference on Computational Fluid Dynamics (ECFD VI), July 20 – 25, 2014, Barcelona, Spain, extended abstract of paper is published on website <http://www.wccm-eccm-ecfd2014.org/frontal/Ebook.asp>

31. Rębielak Janusz: *A two-stage method for an approximate calculation of statically indeterminate trusses*, Journal of Civil Engineering and Architecture, Volume 8, Number 5, May 2014 (Serial Number 78), pp. 567-572.

32. Rębielak Janusz: *Propozycje form i zastosowań system fundamentu zespolonego (Proposals of forms and applications of system of the combined foundation)* - in Polish with abstract in English, MECHANIK, No 7, 2014, p. 555, CD, paper No 74, pp. 631-636.

33. Rębielak Janusz: *New simple method of calculation of statically indeterminate trusses*, Journal of Mathematics and System Science, 4 (2014), pp. 367-371.

34. Rębielak Janusz: *Approximate static analyses of selected types of structural systems*, Proceedings of 1st International Conference on Computational Engineering and Science for Safety and Environmental Problems, COMPSAFE 2014, April 13-16, 2014, Sendai, Japan, CD, pp. 448-451.

35. Rębielak Janusz: *Refleksje na temat architektury charakterystycznych obiektów miasta Yazd w Iranie (Reflections about architecture of characteristic objects of the city Yazd in Iran – in Polish)*,

Harmonizowanie przestrzeni, Perspektywy Studia Interwencje, ed. R. Barełkowski, Publisher Exemplum, ISBN 978-83-62690-08-4, Poznań, 2013, pp. 35 – 49.

36. Rębielak Janusz: *Simple method of calculation of statically indeterminate trusses*, Proceedings of 5th Asia Pacific Congress on Computational Mechanics & 4th International Symposium on Computational Mechanics (APCOM2013 & ISCM2013), Paper ID - 1594, 11-14 December, 2013, Singapore.

37. Rębielak Janusz: *Static analysis and architectonic design of some symmetrical structures*, Proceedings of ISIS-Symmetry Congress-Festival “Labyrinth and Symmetry”, Crete, 9-15 September, 2013, The Journal of the International Society for the Interdisciplinary Study of Symmetry: Art and Science, Eds.: V. Makarova, D. Nagy and J.M. Vandoulakis, Nos 1-4, 2013, pp. 284-287.

38. Rębielak Janusz: *Zespolony system konstrukcyjny budynków wysokich (Combined structural system of high-rise buildings – in Polish)*, Poznanie, Kosmos, cywilizacja, red.: E. Dobierzewska-Mozrzymska i A. Jezierski, Studium Generale Universitatis Wratislaviensis im. Profesora Jana Mozrzymskiego, Vol. XVII, ISSN 0239-6661, Wydawnictwo Uniwersytetu Wrocławskiego, 2013, pp. 207-219.

39. Rębielak Janusz: *Metoda obliczania kratownic statycznie niewyznaczalnych w dwóch etapach (Method of calculation of statically indeterminate trusses in two stages)* - in Polish with abstract in English, MECHANIK, No 7, July, 2013, p. 599, CD pp. 729-736.

40. Rębielak Janusz: *Metody numeryczne w modelowaniu struktur przestrzennych. Kształtowanie systemów konstrukcyjnych budynków wysokich (Numerical methods in modeling of space structures. Shaping of structural systems of tall buildings – in Polish)*, Archivolta, nr 1, 2013, pp. 50-57.

41. Rębielak Janusz: *System of combined foundation for tall buildings*, Journal of Civil Engineering and Architecture, Vol. 6, No 12, December 2012, (Serial No 61), pp. 1627-1634.

42. Rębielak Janusz: *A method of static calculation and shape of structural system developed by application of principles of superposition*, Lightweight structures in civil engineering – contemporary problems, Local seminar of IASS Polish Chapter, Warsaw, 7 December, 2012, pp. 155-158.

43. Rębielak Janusz: *Review of some structural systems developed recently by help of application of numerical models*, Lightweight structures in civil engineering – contemporary problems, Local seminar of IASS Polish Chapter, Warsaw, 7 December, 2012, pp. 159-164.

44. Rębielak Janusz: *Metody numeryczne w modelowaniu struktur przestrzennych. Formy przekryć dachowych (Numerical methods in modeling of space structures. Forms of roof covers – in Polish)*, Archivolta, nr 4, 2012, pp. 64-71.

45. Rębielak Janusz: *Complex of tall buildings designed by means of the combined structural system*, Proceedings of the 4th International Conference on Contemporary Problems in Architecture and Construction, Sustainable Building Industry of the Future, Częstochowa, Poland, September 24-27, 2012, Vol. 2, pp. 701-706.

46. Rębielak Janusz: *Architektura w dawnej Persji i we współczesnym Iranie (Architecture in ancient Persia and in contemporary Iran – in Polish)*, Przyroda, ekologia, kultura, red.: E. Dobierzewska-Mozrzymska i A. Jezierski, Studium Generale Universitatis Wratislaviensis im.

Profesora Jana Mozrzymsa, Volume XVI, ISSN 0239-6661, Wydawnictwo Uniwersytetu Wrocławskiego, 2012, pp. 219-248.

47. Rębielak Janusz: *Examples of forms of tall buildings designed by means of the combined structural system*, Seoul, 2012, From Spatial Structures to Space Structures, IASS-APCS 2012 Symposium, May 21-24, 2012, Seoul, Korea, Book of Abstracts, p. 366, (full paper is published on attached CD).

48. Mikołajewski Jarosław, Rębielak Janusz: *Wzmocnienie konstrukcji stalowej hali poprzez ukierunkowane sprężenia dachu*, (*Steel hall structure strengthening by the directional pre-stressing*) - in Polish with abstract in English, MECHANIK, No 7, July, 2012, p. 593, CD, pp. 519-528.

49. Rębielak Janusz: *Model numeryczny GeoDome Sky Towers*, (*Numerical model of GeoDome Sky Towers*) - in Polish with abstract in English, MECHANIK, No 7, July, 2012, p. 593, CD, pp. 835-840.

50. Rębielak Janusz: *New forms of combined structural system proposed for tall buildings*, IABSE Conference, Global thinking in structural engineering: recent achievements, Sharm El Sheikh, May 7-9, 2012, Report volume 98, pp. 150-151, (full paper is published on attached CD).

51. Rębielak Janusz: *Koncepcja systemu konstrukcyjnego budynku wysokiego*, (*Combined structural system of tall building - in Polish*), Inżynieria i Budownictwo, No 1, 2012, pp. 45-51.

52. Rębielak Janusz: *Combined structural system proposed for buildings located in earthquake areas*, Proceedings of Third Symposium on Computation Mechanics (ISCM III) and Second Symposium on Computational Structural Engineering (CSE II), Eds. Y.B. Yang, L.J. Leu, C.S.D. Chen, December 5-7, 2011, Taipei, Taiwan, National Taiwan University Press, pp. 324-325.

53. Rębielak Janusz, Mikołajewski Jarosław: *Analiza statyczna sferycznej formy struktury VA(TH)No2* (*Static analysis of spherical form of VA(TH)No structure*), Czasopismo Techniczne Politechniki Krakowskiej, Vol. 11, Year 108, 2-A/2/2011, pp. 309-315.

54. Rębielak Janusz: *Budynek o zespolonej formie systemu konstrukcyjnego* (*Building of combined form of structural system*), Czasopismo Techniczne Politechniki Krakowskiej, Vol. 11, Year 108, 2-A/2/2011, pp. 303-308.

55. Rębielak Janusz: *Combined form of structural system proposed for tall buildings*, Taller, Longer, Lighter - Proceedings of IABSE-IASS Symposium, London, 20-23 September, 2011, p. 308, full paper – on attached CD.

56. Rębielak Janusz: *Symetrie w systemach architektonicznych* (*Symmetries in architectonic systems – in Polish*), Człowiek, kultura, historia, Seminaria Interdyscyplinarne pod redakcją Ewy Dobierzewskiej-Mozrzymsa i Adama Jezierskiego, Tom XV, Wydawnictwo Uniwersytetu Wrocławskiego Wrocław, 2011, pp. 175-187.

57. Rębielak Janusz, Kopka Wojciech, Mikołajewski Jarosław: *Analizy statyczne wybranych form konstrukcji prętowo-ciężnowych* (*Static analyses of selected forms of tension-strut structures*) - in Polish with abstract in English, MECHANIK, No 7, July, 2011, paper published on attached CD, pp. 809-818.

- 58.** Rębielak Janusz, Mikołajewski Jarosław: *Analiza statyczna modułowo sprężonego wspornika strukturalnego (Static analysis of modular pre-stressed spatial cantilever)* - in Polish with abstract in English, MECHANIK, No 7, July, 2011, paper published on attached CD, pp. 789-798.
- 59.** Rębielak Janusz: *Koncepcja zespolonej postaci fundamentu oraz struktury nośnej budynku (The concept of combined shape of foundation and carrying structure of a building)* - in Polish with abstract in English, MECHANIK, No 7, July, 2011, paper published on attached CD, pp. 799-808.
- 60.** Rębielak Janusz: *JR Tetra System – propozycje zastosowań w konstrukcjach przekryć dachowych (JR Tetra System –proposals of applications in structures of roof covers)*, Nowoczesne Hale, No 2, 2011, pp. 63-66.
- 61.** Rębielak Janusz: *Koncepcje prętowo-ciężnowych systemów przekryć dachowych (Tension-strut systems proposed for roof structures - in Polish)*, Inżynieria i Budownictwo, No 1, 2011, pp. 3-8.
- 62.** Rębielak Janusz: *Geometrical and numerical order of some architectonic structures – abstract of the invited lecture*, Proceedings of 6th International Conference “Mathematics & Design 2010”, Buenos Aires, Argentina, 7-11 June 2010, Journal of Mathematics & Design, Vol. 10, No 1, pp. 209-210.
- 63.** Rębielak Janusz: *Structural systems shaped for tall objects*, in: Spatial structures – temporary and permanent, eds. Q. Zhang, L. Yang, Y. Hu, International Symposium of the International Association for Shell and Spatial Structures, Shanghai, China, November 8-12, 2010, China Architecture & Building Press, pp. 1991-1998.
- 64.** Rębielak Janusz: *Morphology of roof structure systems designer by means of lenticular girder*, in: Spatial structures – temporary and permanent, eds. Q. Zhang, L. Yang, Y. Hu, International Symposium of the International Association for Shell and Spatial Structures, Shanghai, China, November 8-12, 2010, China Architecture & Building Press, pp. 1249-1256.
- 65.** Jurczakiewicz Stanisław, Rębielak Janusz: *Wstępna analiza statyczna jednej z odmian konstrukcji typu JR Tetra System*, (Initial static analyses of one type of the JR Tetra System structure – in Polish), Zeszyty Naukowe Politechniki Rzeszowskiej, nr 276, Budownictwo i Inżynieria Środowiska, zeszyt nr 58, 1/2011, pp. 161-170.
- 66.** Bać Zbigniew, Rębielak Janusz: *Obiekty centralne w autorskiej koncepcji projektowej dla Expo Wrocław 2010*, (Central objects in authors design concept for Expo Wrocław 2010 – in Polish), Zeszyty Naukowe Politechniki Rzeszowskiej, nr 276, Budownictwo i Inżynieria Środowiska, zeszyt nr 58, 1/2011, pp. 31-34.
- 67.** Rębielak Janusz: *Regularity in structural forms and numerical models of basic types of lenticular girder*, Symmetry: Art and Science, The Journal of the International Society for the Interdisciplinary Study of Symmetry, Nos 1-4, 2010, pp. 258-261.
- 68.** Rębielak Janusz: *Numerical models of lightweight roof structures*, Proceedings of Fourth International Conference on Structural Engineering, Mechanics and Computation, Cape Town, South Africa, September 6-8, 2010, Advances and Trends in Structural Engineering, Mechanics and Computation – A. Zingoni (Ed.), 2010 Taylor & Francis Group, ISBN 978-0-415-58472-2, London, 2010, pp. 347-350.

69. Rębielak Janusz: *Structural systems for modern architecture*, AR Magazine, University of Lubljana, Slovenia, No 1, 2010, pp. 52-55.
70. Rębielak Janusz: *Oblicza dawnej oraz współczesnej architektury i inżynierii Iranu* (Visages of ancient and contemporary architecture and engineering of Iran – in Polish), „Inżynieria i Budownictwo”, Nr 4, 2010, pp. 200-206.
71. Rębielak Janusz: *Modelowanie przestrzennej struktury fundamentu zespolonego*, (*Modeling of spatial structure of combined foundation*), - in Polish with abstract in English, MECHANIK, No 7, July, 2010, paper published on attached CD, pp. 469-474.
72. Rębielak Janusz: *Koncentryczne formy przekryć dachowych*, (*Concentric forms of roof covers*) - in Polish with abstract in English, MECHANIK, No 7, July, 2010, paper published on attached CD, pp. 463-468.
73. Rębielak Janusz: *Konstrukcje dachów budowane za pomocą różnych form dźwigara soczewkowego*, (*Roof structures built by means of various forms of lenticular girder*) - in Polish with abstract in English, MECHANIK, No 7, July, 2010, paper published on attached CD, pp. 453-462.
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