

## CURRICULUM VITAE

### Dr. Jármai, Károly

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### Dr. Károly Jármai biography

#### Professional qualifications and academic titles, diplomas

Year	Institute	Diploma, academic degree
1995	Hungarian Academy of Science	Doctor of Technical Science (DSc.)
1995	University of Miskolc	Habilitation (Dr. habil.)
1992	FEANI in Paris	European Engineer (Eur. Ing.)
1988	Hungarian Academy of Science	Candidate of Technical Science (CSc.)
1979	University of Miskolc	University Doctor (Dr.Univ.)
1973-78	University of Miskolc	Degree in Mechanical Engineering (Mech.Eng.)

#### Professional experience in the field of scientific research

Year	Activity	Details
2018	International conference main organizer	International Conference on Vehicle and automotive engineering, 2018, May 23-25, University of Miskolc
2017-2018	European Framework Programme EU RFCS project	LOCAFI+ Temperature assessment of a vertical steel member subjected to localised fire - Valorisation
2016	Nemzetközi konferencia főszervezője	Vehicle engineering and vehicle industry Conference, 2016, November 24-26, University of Miskolc
2013-2014	European Framework Programme EU RFCS project	LVS <sup>3</sup> Large Valorisation Hungarian partner on Sustainability of Steel Structures (Steel sustainability and Valorisation)
2013-2017	Project leader OTKA T 109860	Optimization of objects and systems
2011-2013	International conference main organizer	Design, Fabrication and Economy, International Conference on Steel Structures, 2013, April 24 to 26, University of Miskolc
2009-2013	project leader OTKA T 75678	Welded structures, in particular the development and optimization for fire protection and optimization methods

2011-2012	European Framework Programme EU FP7 project Hungarian partner	MACS + Membrane action at composite structures in case of fire (for composite membrane structures fire effect)
2009-2010	European Framework Programme EU FP7 project Hungarian partner	DIFISEK + Fire safety design of steel structures (fire protection design of steel structures)
2007-2009	Project Manager	Romanian-Hungarian cooperation project Science and Technology, University of Brasov RO Tet,
2006-2008	International conference Main organizer	Design, Fabrication and Economy, International Conference on Metal Structures, 2008, April 24 to 26, University of Miskolc
2005-2008	Project manager	South African Science and Technology cooperation projects Tet DAF University of Pretoria,
2001-2003	Chief organizer	International Conference on Metal Structures, 2003, April 7 to 9, University of Miskolc
2002-2004	project manager	South African Science and Technology cooperation projects Tet DAF University of Pretoria,
2002-2003	project leader	Japan Science and Technology cooperation projects Tet JAP No. 23/2002 of Kumamoto University
2002-2005	T38058 OTKA project manager	Engineering structures, evolutionary optimization methods
2000-2001	project manager	South African Science and Technology cooperation projects Tet DAF No. 2/99 with the University of Pretoria,
1998-2000	project leader	Japan Science and Technology cooperation projects Tet JAP No. 3/98 of Osaka University,
1998	International course organizer	Mechanics and Design of Tubular Structures course is the main organizer and performer, CISM International Centre for Mechanical Sciences, Udine, June 1 to 5.

### Research and development (R & D) activities

Year	Company	Topic
2018	Weldminker Kft.	Development of a lifting table family
2015	Firing Technology Research Institute	Strength calculation of a steel cover for heat treatment
2010	IBM Hungary	Composite ramp design and measurement
2009	Fireplace Ltd.	Thermal fatigue of the fireplace, draw up proposals
2001	Metal Kft. Hódmezővásárhely	Design of a hydraulic platform site steel structure
2000	Cement Industrial Repair Ltd.	Increasing crane capacity

1995	Priblico Ltd. Győr	Design of a furnace wall
1987-88	Borsod Chemical Trust (BVK)	MDI plant pressure vessel supporting frame design
1986-88	KAEV, Light Industrial Machinery Company	Polymer concrete press machine design
1987	Metal Workers' Company Budapest	Development of a program for industrial frame design
1984-88	MHD (Hungarian Shipyard and Crane Factory), Budapest	Development of a program for steel construction elements design
1986	KBFI (Central Mining Research Institute), Budapest	Crane girder design program development
1985	Thorez Mine, Visonta	Design of a bucket-wheel excavator disc cutter makeover
1985-86	Ganz Mávag, Steel Structure Factory, Budapest	Computer program for the optimum design of welded main girder for overhead crane
1982-83	VILATI, Eger	Vibration analysis of electrical equipment rack
1979-85	KAEV	Design of punch press moving bridge and table
1979-80	Thorez Mine, Visonta	Design of a bucket-wheel steel excavator

### Professional experience in the field of education

Year	Activity	Details
2018-	full-time education	Design of vehicle frames
2010-	IWSD International Welded Structure Designer training	Analysis of welded structures, optimization
2010 -	PhD education	Optimum design of metal constructions for fire protection
2003 -	full-time education	Optimization of objects and systems
2003 -	full-time education	Steel structures at industrial plants
2003 -	PhD education	Structural optimization
2001 -	full-time education	Research of modern literature and publishing
2000 -	Erasmus students	Optimization of steel structures
2000 -	Erasmus students	Design of structural connections
2000 -	Erasmus students	Analysis and design of steel structures
1995 - 2003	full-time education	Optimization of engineering structures
1995 - 2003	full-time education	Analysis of engineering structures
1994 - 2003	full-time education	Design of structural connections
1993 -	International Welding Engineer IWE / EWE training	Welded structures, CAD in welding
1992 – 2002	PhD education	Optimum design of metal structures
1992 – 2002	PhD education	Design of structural connections
1985 – 2005	English training for foreigners	Design of steel structures
1979 – 1993	Welding engineer training	Welded structures, CAD in welding

1978 - 2006	full-time education	Welded structures
1978 - 2006	full-time education	Metal constructions

### Jobs, positions

Name	Institution	Year
2013-17	University of Miskolc	Vice-Rector for Strategy and Development
2011-	University of Miskolc	Leader of the Innovative mechanical design and technology Centre of Excellence
1996	University of Miskolc	professor
1990-96	University of Miskolc	associate professor
1978-90	University of Miskolc	department engineer

### Visiting Professorship invitations in recent years

Year	Duration	Place
2006	1 Month	University of Pretoria, South Africa, August
2004	1 Month	University of Pretoria, South Africa, June
2003	1 Month	Kumamoto University, Japan
2002	1 Month	University of Pretoria, South Africa, Jan.
2002	1 Month	Kumamoto University
2001	1 Month	University of Pretoria, South Africa, April
2000	1 Month	University of Osaka, Joining and Welding Research Institute in March,
1999	1 Month	University of Osaka, Joining and Welding Research Institute and the University of Matsuyama in Ehime August
1998	1 Month	University of Osaka, Joining and Welding Research Institute, October
1998	1 Month	National University of Singapore, CAD / CAE / CAM Center, August
1996/97	6 Months	JSPS visiting professor at the University of Osaka, Joining and Welding Research Institute, Japan
1991	4 Months	Chalmers University of Technology, Department of Structural Engineering, Gothenburg, Sweden, carrying out research work

### Language Skills

State exam in English fluent  
 State exam in Russian intermediate (passive)  
 German understanding

### Publications

701 papers have been published so far, partly with co-authors. The most part is in English. Professional results have been published in numerous national and international conferences, national and international scientific journals. For example, my article published in the Journal of Sound and Vibration, Computers in Industry, Thin-walled Structures and Structural Optimization, Welding in the World, Constructional Steel Research, Engineering Structures,

Advances in Structural Engineering and Computers and Structures. The number of known citations are 729 without self citations.

The list of databases can be found at MTMT, Google Scholar and Researchgate websites

MTMT ID: <https://vm.mtmt.hu/search/slist.php?lang=0&AuthorID=1312118>

Google Scholar:

<https://scholar.google.hu/citations?user=http://scholar.google.hu/citations?hl=hu&user=WCwoGsYAAAAJ>

Researchgate: [https://www.researchgate.net/profile/Karoly\\_Jarmai](https://www.researchgate.net/profile/Karoly_Jarmai)




ORCID: <http://orcid.org/0000-0001-8487-4327>

ResearcherID:<http://www.researcherid.com/ViewCitationMetrics.action?returnCode=ROUTE.R.Unauthorized&queryString=KG0UuZjN5WlJVJ1dIL8RWnDX93AccuY%252BxsCu2HZ5XpQ%253D&SrcApp=CR&Init=Yes>

Microsoft Academic Search: <http://academic.research.microsoft.com/Author/13440215>

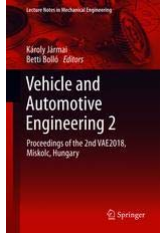
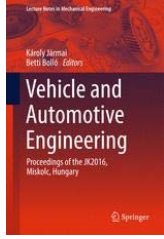
## Reference Books list

### Monographs

	<p>Farkas József, Jármái Károly: <b>Fém szerkezetek innovatív tervezése</b>, Gazdász-Elasztik Kiadó és Nyomda, 2015, 592 old. ISBN 978-963-358-064-6</p>
	<p>Farkas, J., Jármái, K.: <b>Optimum design of steel structures</b>, Springer Verlag, Heidelberg, 2013. 288 p. ISBN 978-3-642-36867-7, <a href="http://dx.doi.org/10.1007/978-3-642-36868-4">http://dx.doi.org/10.1007/978-3-642-36868-4</a></p>
	<p>Jármái, K., Iványi, M.: <b>Acélszerkezetek tűzvédelmi tervezése, Bevezetés az acélszerkezetekkel kapcsolatos európai szabványokba és alkalmazásukba.</b> Gazdász-Elasztik Kft. Miskolc, 259 old. 2008. ISBN 978-963-87738-4-5</p>

	<p><b>Farkas,J.,Jármai,K.:</b> <b>Design and optimization of metal structures</b>, <i>Horwood Publishers</i>, Chichester, UK, 2008. 328 p. ISBN: 978-1-904275-29-9</p>
	<p><b>Farkas J. &amp; Jármai K.:</b> <b>Economic design of metal structures</b>, <i>Millpress Science Publisher</i>, Rotterdam, 2003, 340 p. ISBN 90 77017 99 2</p>
	<p><b>Jármai,K.,Iványi,M.:</b> <b>Gazdaságos fémszerkezetek analízise és tervezése</b>, Műegyetemi Kiadó, Budapest, 2001, 226 p. ISBN 963 420 674 3</p>
	<p><b>Farkas,J.,Jármai,K.:</b> <b>Analysis and optimum design of metal structures</b>, <i>Balkema Publishers</i>, Rotterdam, Brookfield, 1997, 347 p. ISBN 90 5410 669 7.</p>

### Conference proceedings

	<p><b>Károly Jármai, Betti Bolló (Eds.):</b> <b>Vehicle and automotive engineering 2</b>, Lecture Notes in Mechanical Engineering, Springer International Publishing AG, Proceedings of the Conference on Vehicle Engineering and Vehicle Industry VAE2018, 800 p., ISSN: 2195-4356, DOI 10.1007/978-3-319-75677-6</p>
	<p><b>Károly Jármai, Betti Bolló (Eds.):</b> <b>Vehicle and automotive engineering</b>, Lecture Notes in Mechanical Engineering, Springer International Publishing AG, Proceedings of the Conference on Vehicle Engineering and Vehicle Industry JK2016, 500 p., ISSN: 2195-4356, DOI 10.1007/978-3-319-51189-4</p>

	<p><b>Jármai,K.,Farkas,J.(Eds.): Design, fabrication and economy of metal structures: International Conference Proceedings, Miskolc, Hungary, 2013, 24 - 26 April, Springer Verlag, Heidelberg, 2013. 667 p.</b></p>
	<p><b>Jármai,K.,Farkas,J.(Eds.): Design, fabrication and economy of welded structures: International Conference Proceedings, Miskolc, Hungary, 2008, 24 - 26 April, Horwood Publishers, Chichester, UK, 2008. 582 p. ISBN: 978-1-904275-27-5</b></p>
	<p><b>Jármai,K.,Farkas,J. (Eds.): International Conference on Metal Structures, Miskolc, Hungary, April 3-5, 2003. Millpress Science Publishers, Rotterdam, 2003, 397 p. ISBN 90 77017 75 5</b></p>
	<p><b>Jármai,K.,Farkas,J.(Eds.): Mechanics and Design of Tubular Structures, Springer Verlag, 1998. 337 p. ISBN 3-211-83145-2</b></p>
	<p><b>Farkas,J.,Jármai,K.(Eds.): 7<sup>th</sup> International Symposium on Tubular Structures, Aug. 28-30. 1996. University of Miskolc, Hungary, Proceedings, Balkema Publishers, Rotterdam, 1996. 490 p. ISBN 90 5410 828 2</b></p>
	<p><b>Jármai,K.(Ed.): International Symposium on Design of Metal Structures, December 12, 1997. University of Miskolc, Hungary. Publications of the University of Miskolc, Series C, Mechanical Engineering, 1997, Vol. 47. 265 p. HU ISSN 0237-6016</b></p>