

V I T A

Slobodan Jaric

GENDER: male

BORN: July 1, 1951, Belgrade (former Yugoslavia)

NATIONALITY: US and Serbia

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PROFESSIONAL ADDRESS: Slobodan Jaric

Human Performance Lab, Rm. 153
Department of Kinesiology and Applied Physiology, &
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RESIDENTIAL ADDRESS: Arcibalda Rajsa 68, 11 030 Belgrade, Serbia

&

2116 South St. App. 1F, Philadelphia, Pa19146, US

A FACULTY POSITION INVOLVING:

1) Teaching motor control and learning, biomechanics of human locomotion, sports biomechanics, kinesiology, and research methods in kinesiology.

2) Conducting research in motor control, motor behavior and biomechanics in adult and children population, neurological patients, and athletes.

3) Developing an interdisciplinary approach to the study of human movement.

EDUCATION:

SCHOOL	LOCATION	DATE
DEGREE		

University of Belgrade Physics	Belgrade, Yugoslavia	1976	B.S.
University of Belgrade Biomedical Engineering	Belgrade, Yugoslavia	1981	M.S.
University of Belgrade Kinesiology	Belgrade, Yugoslavia	1986	Ph.D.

M.S. Thesis:

Relationships among muscle force, muscle length, and the shortening velocity.

Ph.D. Dissertation:

Relationships between the mechanical characteristics of complex human movements and torque parameters of active muscles.

PROFESSIONAL INFORMATION:

DATES	POSITION	INSTITUTION
1977-1988	Teaching Assistant	Department of Biological Sciences Faculty of Physical Education University of Belgrade
1980-1987	Consultant	Yugoslav Institute for Physical Culture Belgrade
1981-1985	Teaching Assistant	Department of Physics School of Medicine and Veterinarian School University of Belgrade
1988-1993	Assistant Professor	Department of Biological Sciences Faculty of Physical Education University of Belgrade

1987 (July-Oct)	Instructor	Department of Neurosurgery Rush Medical College Chicago, USA
1988-1993	Assistant Professor	Neurophysiology Laboratory Institute for Medical Research Belgrade
1986 (Sept-Oct) 1988 (Jun-Sept) 1990 (Sep-Nov) 1996 (July-Aug)	Visiting Scientist	Department of Physical Education University of Illinois Chicago, USA
1989 (Jun-Sept) 1991 (Oct-Nov) 1992 (Oct-Nov) 1994 (Jan-Feb) 1994 (Nov-Dec)	Visiting Scientist	Department of Physiology Rush Medical School Chicago, USA
1993-1998	Associate Professor	Neurophysiology Laboratory Institute for Medical Research Belgrade
1993-1998	Associate Professor	Department of Biological Sciences Faculty of Physical Education University of Belgrade
1995 (Oct-Dec) 1997 (Feb)	Visiting Scientist	Biomechanics Laboratory Department of Kinesiology Penn State University, USA
1997(July)-1998(Jun) 1999(Dec)-2000(March)	Senior Research Associate	Motor Control Laboratory Department of Kinesiology Penn State University, USA

1998-1999	Research Professor	Neurophysiology Laboratory Institute for Medical Research Belgrade
1998 (June-Dec)	Visiting Professor	Dept. Physiology and Biophysics University of Campinas Sao Paulo, Brazil
1999-2000	Visiting Professor	Centre for Musculo-Skeletal Research National Institute for Working Life Umea, Sweden
2000-2002	Senior Scientist	Centre for Musculo-Skeletal Research National Institute for Working Life Umea, Sweden
2000-2002	Associate Professor (Docent)	Experimental Sport Medicine Medical School Umea University, Sweden
2001 (March-April)	Visiting Scholar	Motor Control Laboratory Department of Kinesiology Penn State University, USA
2002-2004	Associate Professor (tenure track)	Department of Kinesiology and Applied Physiology & Biomechanics and Movement Science Graduate Program, University of Delaware, USA
2004-2007	Associate Professor (with tenure)	Department of Kinesiology and Applied Physiology & Biomechanics and Movement Science Graduate Program, University of Delaware, USA

2007-	Professor	Department of Kinesiology and Applied Physiology & Biomechanics and Movement Science Graduate Program, University of Delaware, USA
2008-	Professor (adjunct)	Graduate Program School of Sport and Physical Education University of Belgrade, Serbia
2009-	Professor (adjunct)	School of Kinesiology University of Zagreb, Croatia
2013-	Professor (adjunct)	School of Sport and Physical Education University of Nis, Serbia
2016-	Visiting Professor	The Jerzy Kukuczka Academy of Physical Education in Katowice, Poland

CURRENT GRANTS:

P.I.

I.

2011- Evaluation of methods for assessment of the role of muscular and neural factors and their adaptive changes in human locomotion (#175 037). Serbian Scientific Fund, € 150 000 (direct costs)

2011- Training grant T32 (NIH), cc. 900,000 total cost

GRANTS RECEIVED:

P.I.

- 2010-2013 Evaluation of novel tests of neuromuscular function (R21AR06065). NIH - NIAMS, \$420,750
- 2011-2012 Brain Gain Program (Support of higher education in developing countries), World University Service, Austrian Center, €5,000
- 2009-10 Brain Gain Program (Support of higher education in developing countries), World University Service, Austrian Center, €5,000
- 2010 International Travel Grant, University of Delaware, \$750
- 2007-2008 A novel device to test hand function in multiple sclerosis, National Multiple Sclerosis Society, \$ 44,000
- 2006 Developing a device for testing manipulation tasks. Marmot Foundation, \$5,000
- 2005-2008 Hand function in multiple sclerosis (5R03HD048481-02)
NIH (NICHD), \$ 151 000
- 2004-2005 Effects of obesity on functional movement performance (with T. Kaminsky), University of Delaware, \$ 5 000
- 2004-2005 Quantitative analysis of hand function in multiple sclerosis,
National Multiple Sclerosis Society, \$ 44 000
- 2002-2005 Role of central and peripheral factors in kinematics of voluntary movements (#1758). Serbian Scientific Fund, \$ 75 000 (direct costs)
- 2004 Coordination of hand and finger grip forces with external load, Funds for undergraduate student research (UDRF)
\$ 3,500 (direct costs)
- 2003-2004 Coordination of hand and finger grip forces with external load, (UDRF),
\$ 30,000

- 2003 Coordination of external force, hand grip force and motor unit activity in unimanual and bimanual tasks, (CAP2003-1; with C.A. Knight), University of Delaware, \$ 5 000
- 2003 Center for International Studies
University of Delaware
\$ 500
- 2002 Center for International Studies
University of Delaware
\$ 500
- 2001 A grant for international collaboration
STINT Foundation, Sweden
\$ 1,200 (direct costs)
- 2001 Muscular function testing: The optimal method for strength normalization
Centrum för Idrottsforskning, Sweden
\$ 4,200 (direct costs)
- 1996-2001 Biomechanical and Physiological Basis of Human Locomotion
Serbian Science Foundation
\$ 110,000 (direct costs)
- 1994-1997 Role of Agonist and Antagonist Muscles in Rapid Movement Performance
Federal Science Foundation
\$ 12,000 (direct costs)
- 1987-1990 Biomechanics of Complex Movements
Serbian Science Foundation
\$ 6,000 (direct costs)
- 1991-1994 Diversity in Motor Learning
NIH grant JF-012 (funds made available to the U.S. - Yugoslav Joint Board on Scientific and Technological Cooperation)

\$ 60,000 (direct costs)

1991-1995 Physiological and Biomechanical Basis of Human Locomotion
Serbian Science Foundation
\$ 30,000 (direct costs)

Co.I.

2008-2010 Evaluation of the muscular system function: external loading and the mechanical output, Unity Through Knowledge Fund – Young Investigator Award (# 26/08), World Bank, € 50,000 (direct costs), P.I. Goran Markovic

1998-1999 Role of Muscle Viscosity in Voluntary Movement Programming
(with Dr. Gil Lucio Almeida)
FAPESP (Scientific Foundation of Sao Paolo, Brazil)
\$ 90,000 (direct costs)

1998-1999 Visiting Professor Scholarship
Department of Physiology and Biophysics
University of Campinas, Brazil
FAPESP (Scientific Foundation of Sao Paolo, Brazil)
\$ 41,000 (direct costs)

1980-1983 Training methods in elite athletes
Yugoslav Foundation of Physical Education &
Yugoslav Olympic Committee
\$ 50,000 (direct costs) (P.I. Branislav Milisic & Predrag Gavrilovic)

1986-1990 Role of Gamma System in Motor Control
Serbian Science Foundation
\$ 50,000 (direct costs) (P.I. Jovan Vuco)

ASSOCIATE EDITOR

Journal of Human Kinetics

EDITORIAL BOARDS:

Coaching and Sport Science Journal
Human Movement
Kinesiology
Physical Culture

AD HOC REVIEWS:

Annals of Biomedical Engineering
Applied Bionics and Biomechanics
Archives of Bioengineering and Biomechanics
Archives of Physical Medicine and Rehabilitation
Behavioral Brain Research
BMC Musculoskeletal Disorders
Cerebellum
Clinical Biomechanics
Clinical Neurophysiology
Coaching and Sport Science Journal
Collegium Anthropologicum
Computational and Mathematical Methods in Medicine
European Journal of Applied Physiology
European Physical Education Review
Experimental Brain Research
Human Movement
Human Movement Science
IEEE Transactions on Biomedical Engineering
International Journal of Sports Science & Coaching
Journal of Applied Biomechanics
Journal of Applied Physiology
Journal of Biomechanics
Journal of Electromyography and Kinesiology
Journal of Experimental Psychology
Journal of Human Kinetics
Journal of Human Movement Studies

Journal of Hand Therapy
Journal of Medicine and Science in Sports
Journal of Motor Behavior
Journal of Neurology
Journal of Neurophysiology
Journal of Sports Science and Medicine
Journal of Sports Sciences
Kinesiology
Measurement
Medicine & Science in Sports & Exercise
Motor Control
Muscle and Nerve
Neurorehabilitation and Neural Repair
Neuroscience
Neuroscience Letters
Pediatric Exercise Science
Physical Culture
PLoS ONE
Psychology of Sport & Exercise
Psychophysiology
Research in Sports Medicine
Scandinavian Journal of Science & Medicine in Sports
Scientific Reports
Sports Biomechanics
Sports Medicine

COMMITTEES:

1988-1993 Chairperson: Committee for MIL (Center for Research and Methodology) of Faculty for Physical Culture
1989-1992 Chairperson: Scientific Committee for Faculty for Physical Culture
1988-1997 Chairperson: Computer Center of MIL (Laboratory for Research and Methodology) of Faculty for Physical Culture
1992-1998 Chairperson: Biomechanics Laboratory of MIL (Center for Research and Methodology) of Faculty for Physical Culture

- 1994-1998 Chairperson: Scientific Committee of Faculty for Physical Culture
- 1995-1997 Member: The Superior University Committee for Biomedical Sciences (Belgrade University)
- 2000-2002 Member: The Leading Group for the Curriculum Committee for Sport Sciences and Physical Education (Umea University)
- 2005-2008 Secretary of the International Society of Motor Control
- 2006-2007 Chair's Council, Dept. Health, Nutrition, and Exercise Science, Univ. Delaware
- 2006-2007 Graduate Studies Committee, Dept. Health, Nutrition, and Exercise Science, Univ. Delaware
- 2007- Chair of the graduate program 'Experimental Studies of Human Movements', Belgrade University
- 2010-2012 Award Committee, College of Health Sciences, Univ. Delaware
- 2010-2011 Global Outreach Committee, College of Health Sciences, Univ. Delaware
- 2011-2016 Chair of Promotion & Tenure Committee, Dept. Kinesiology & Appl. Physiology, University of Delaware

RECENTLY TAUGHT COURSES

1. Research Methods (600-level graduate course, University of Delaware)
2. Seminar in Motor Behavior (800-level graduate course, University of Delaware)
3. Academic skills (Academy of Physical Education in Katowice, Poland)
4. Muscle mechanics (Academy of Physical Education in Katowice, Poland)
5. Neuromechanical Basis of Human Movements (300-level undergraduate course, University of Delaware)
6. Measurements and Evaluation (graduate course, Belgrade University)
7. Motor Control (graduate course, Belgrade University)
8. Kinesiology (300-level undergraduate course, University of Delaware)
9. Lab Instrumentation (graduate course, University of Delaware)
10. Research Methods (400-level undergraduate course, University of Delaware)
11. Research Methods (graduate course, Belgrade University)
12. Biomechanics (graduate course, Belgrade University)
13. Seminar in Biomechanics (graduate course, University of Delaware)
14. Seminar in Motor Control (graduate course, University of Delaware)
15. Biomechanics II (400-level undergraduate course, University of Delaware)

POST-DOCTORAL STUDENTS ON SUPERVISION

1. Amador Gracia-Ramos (2017-2019)

GRADUATE STUDENTS ON SUPERVISION

Ph.D. STUDENTS SUPERVISED

1. Dusko B Ilic (Ph.D. program of Faculty for Physical Culture, Belgrade), thesis defended 1997.
2. Robert Ropret (co-supervisor with M. Kukolj, Ph.D. program of Faculty for Physical Culture, Belgrade), thesis defended 1998.
3. Sladjan Milanovic (Ph.D. program of the Center for Multidisciplinary Studies, Belgrade University), thesis defended 2003
4. Dragan Mirkov (Ph.D. program of Faculty of Sports and Physical Education, Belgrade University), thesis defended 2003.
5. Aleksandar Nedeljkovic (co-supervised with M. Kukolj, Ph.D. program of Faculty of Sports and Physical Education, Belgrade University), thesis defended 2007.
6. Paulo Barbosa de Freitas (PhD student in Biomechanics and Movement Science Interdisciplinary Program, University of Delaware), thesis defended 2009.
7. Vennila Krishnan (PhD student in Biomechanics and Movement Science Interdisciplinary Program, University of Delaware), thesis defended 2009.
8. Predrag Bozic (PhD student in Experimental Studies of Human Locomotion, Belgrade University), thesis defended 2011.
9. Mehmet Uygur (PhD student in Biomechanics and Movement Science Interdisciplinary Program, University of Delaware), thesis defended 2012.
10. Bojan Leontijevic (co-supervised with M. Kukolj, PhD student in Experimental Studies of Human Locomotion, Belgrade University), thesis defended 2013.
11. Nemanja Pazin (co-supervised with A. Nedeljkovic, PhD student in Experimental Studies of Human Locomotion, Belgrade University), thesis defended 2013.
12. Ivan Cuk (PhD student in Experimental Studies of Human Locomotion, Belgrade University), thesis defended 2015.
13. Goran Prebeg (co-supervised with S. Stojiljkovic; PhD student in Experimental Studies of Human Locomotion, Belgrade University), thesis defended 2015.
14. Predrag Markovic (co-supervised with D. Suzovic, PhD student in Experimental Studies of Human Locomotion, Belgrade University), thesis defended 2016.
15. Mandic Radivoj (co-supervised with S. Jakovljevic, PhD student in Experimental Studies of Human Locomotion, Belgrade University), thesis defended 2016.
16. Sasa Djuric (PhD student in Experimental Studies of Human Locomotion, Belgrade University), thesis defended 2017.

17. Milena Zivkovic (PhD student in Experimental Studies of Human Locomotion, Belgrade University), thesis defended 2017.

M.S. STUDENTS SUPERVISED

1. Dusko B Ilic (the graduate program of Faculty for Physical Culture, Belgrade), thesis defended 1993.
2. Robert Ropret (co-supervised with M. Kukolj, the graduate program of Faculty for Physical Culture, Belgrade), thesis defended 1994
3. Sasa Radovanovic (Graduate Program of School of Medicine, Belgrade), thesis defended in 1997.
4. Dragan Matavulj (co-supervised with M. Kukolj, the graduate program of Faculty for Physical Culture, Belgrade), thesis defended 1998.
5. Charli Tortoza (co-supervised with GL Almeida, the graduate program of School of Physiotherapy, University of Campinas, Brazil), thesis defended 2000.
6. Dragan Mirkov (M.S. program, Center for Multidisciplinary Studies, Belgrade), thesis defended 2001.
7. Rahul Marwaha, (MS student in Exercise Science - Motor Control), thesis defended 2005.
8. Leana M Ferrand (MS student in Biomechanics and Movement Science Interdisciplinary Program, University of Delaware)
9. Jeffrey Collins (MS student in Exercise Science - Motor Control, University of Delaware)
10. Xin Jin (Biomechanics and Movement Science Interdisciplinary Program, University of Delaware), thesis defended 2011.
11. Emge Nickolas (M.S. student of Exercise Sciences, University of Delaware) thesis defended 2013
12. Daniel Feeney (M.S. student of Biomechanics and Movement Science Graduate Program, University of Delaware), thesis defended 2015
13. Patrick P Morton (M.S. student of Exercise Sciences, University of Delaware) thesis defended 2017

VISITING SCIENTISTS AND GRADUATE STUDENTS SPENDING 2-12 MONTHS IN THE MOTOR CONTROL LAB

1. Dr. Goran Markovic, Assistant Professor, University of Zagreb, Croatia, Spring 2005
2. Dr. Aleksandar Nedeljkovic, Assistant Professor, University of Belgrade, Serbia, Fall 2006
3. Dr. Ismael Fattareli, PT, Assistant Professor, Brazil, University of Holly Cross, Fall 2007
4. Predrag Bozic, PhD student, University of Belgrade, Serbia, spring 2011

5. Dr. Ozgur Celik, Assistant Professor, University of Ankara, spring 2011
6. Olivera Knezevic, PhD student University of Belgrade, Serbia, fall 2011
7. Radivoj Mandic, PhD student University of Belgrade, Serbia, spring 2012
8. Goran Prebeg, PhD student University of Belgrade, Serbia, fall 2012
9. Dr. Aleksandar Nedeljkovic, Assistant Professor, University of Belgrade, Serbia, spring 2013
10. Thiemo Peltzer, University of Mainz, Germany, (2 months) spring 2015
11. Dr. Igor Jelaska, Assistant Professor, University of Split, Croatia, (2.5 months) spring 2015
12. Kaue Lima, PhD student, University of Holly Cross, Sao Paolo, Brazil, 12 months 2015-2016
13. Dr. Dusica Djordjevic, Assistant Professor, University of Kragujevac, Serbia, December 2016 - May 2017

PUBLICATIONS

INTERNATIONAL JOURNALS

1. Gavrilovic P, Ristanovic D, Jaric S (1981) In vivo study on the effect of muscle length on its maximum force of contraction. *Periodicum Biologorum*, 83:135-137.
2. Jaric S, Ristanovic D, Gavrilovic P (1981) The force-velocity relation in quadriceps muscle shortening. *Periodicum Biologorum*, 83:153-155.
3. Ristanovic D, Gavrilovic P, Ivancevic V, Jaric S (1982) Vertical take-off performance as a factor of muscle contraction optimum. *Periodicum Biologorum*, 84:183-185.
4. Jaric S, Gavrilovic P, Ristanovic D, Ivancevic V (1982) A three-dimensional representation of maximum voluntary muscle contraction in man. *Periodicum Biologorum*, 84:140-142.
5. Jaric S, Gavrilovic P, Ivancevic V (1985) Effects of previous muscle contractions on cyclic muscle dynamics. *European Journal of Applied Physiology*, 34:216-221.
6. Gottlieb GL, Corcos DM, Jaric S, Agarwal GC (1988) Practice improves even the simplest movements through refinements in central neural commands. *Experimental Brain Research*, 73:436-440.
7. Jaric S, Ristanovic D, Corcos DM (1989) Relations between kinetic parameters of active muscle groups and kinematic variables of a complex movement. *European Journal of Applied Physiology*, 59: 370-376.
8. Jelusic V, Jaric S, Kukulj M (1992) Effects of the stretch-shortening strength training on kicking performance in soccer players. *Journal of Human Movement Studies*, 22: 231-238.
9. Jaric S, Corcos DM, Latash ML (1992): Effects of practice on final position reproduction. *Experimental Brain Research*, 91: 129-134.

10. Corcos DM, Jaric S, Agarwal GC, Gottlieb GL (1993) Principles for learning single joint movements .1. Enhanced performance by practice. *Experimental Brain Research*, 94: 499-513.
11. Jaric S, Corcos DM, Agarwal GC, Gottlieb GL (1993) Principles for learning single joint movements .2. Generalizing a learned behavior. *Experimental Brain Research*, 94: 514-521.
12. Jaric S, Corcos DM, Gottlieb GL, Ilic DB, Latash ML (1994) The effects of practice on movement distance and final position reproduction: Implications for the equilibrium-point control of movements. *Experimental Brain Research*, 100: 353-359.
13. Jaric S, Ropret R, Kukolj M, Ilic DB (1995) Role of agonist and antagonist muscles strength in performance of rapid movements. *European Journal of Applied Physiology*, 71:464-468.
14. Ilic DB, Corcos DM, Gottlieb GL, Latash ML, Jaric S (1996) The effects of practice on movement reproduction: Implications for models of motor control. *Human Movement Science*, 15:101-114.
15. Jaric S, Radovanovic S, Milanovic S, Ljubisavljevic M, Anastasijevic R (1997) Comparison of the effects of agonist and antagonist muscle fatigue on performance of rapid movements. *European Journal of Applied Physiology*, 76:41-47.
16. Jaric S, Gottlieb GL, Latash ML, Corcos DM (1998) Changes in symmetry of rapid movements: Effects of velocity and viscosity. *Experimental Brain Research*, 120, 52-60.
17. Radovanovic S, Jaric S, Milanovic S, Ljubisavljevic M, Anastasijevic R (1998) The effects of prior muscle vibrations on performance of rapid discrete movements. *Journal of Electromyography and Kinesiology*, 8:139-145.
18. Ilic DB, Mirkov DM, Jaric S (1998) Learning transfer from flexion to extension movements: Importance of the final position. *Motor Control*, 2:221-227.
19. Ropret R, Kukolj M, Ugarkovic D, Matavulj D, Jaric S (1998) Effects of arm and leg loading on sprint performance. *European Journal of Applied Physiology*, 77:547-550.
20. Jaric S, Latash ML (1998) Learning a motor task involving obstacles by a multi-joint, redundant limb: two synergies within one movement. *Journal of Electromyography and Kinesiology*, 9:169-176.
21. Latash ML, Jaric S (1998) Instruction-dependent muscle activation patterns within a two-joint synergy: separating mechanics from neurophysiology. *Journal of Motor Behavior*, 30:194-198.
22. Jaric S, Milanovic S, Blesic S, Latash ML (1999) Changes in movement kinematics during single-joint movements against expectedly and unexpectedly changed inertial loads. *Human Movement Science*. 18: 49-66.
23. Kukolj M, Ropret R, Ugarkovic D, Jaric S (1999) Anthropometric, strength and power predictors of sprinting performance. *The Journal of Sports Medicine and Physical Fitness*, 39:120-122.

24. Jaric S, Tortoza C, Fatarelli IF, Almeida GL (1999) Effects of direction and curvature on variable error pattern of reaching movements. *Motor Control*, 3:414-423.
25. Jaric S, Blesic S, Milanovic S, Radovanovic S, Ljubisavljevic S, Anastasijevic R (1999) Changes in movement final position associated with agonist and antagonist muscle fatigue. *European Journal of Applied Physiology*, 80:467-471.
26. Jaric S, Ferreira SMS, Tortoza C, Marconi NF, Almeida GL (1999) Effects of displacement and trajectory length on the final position variability of reaching movements. *Journal of Motor Behavior*, 31:303-308.
27. Jaric S, Latash ML (1999) Learning a pointing task with a kinematically redundant limb: emerging synergies and patterns of final position variability. *Human Movement Science*, 18: 819-838
28. Laczko J, Jaric S, Tihanyi J, Zatsiorsky VM, Latash ML (2000) Components of the end-effector jerk during voluntary arm movements. *Journal of Applied Biomechanics*, 16:14-25
29. Jaric S. (2000) Changes in movement symmetry associated with strengthening and fatigue of the agonist and antagonist muscles. *Journal of Motor Behavior*, 32:9-16.
30. Milanovic S, Blesic S, Jaric S (2000) Changes in movement variables associated with the transient overshoot of the final position. *Journal of Motor Behavior*, 32:115-120
31. Mirkov DM, Ilic DB, Jaric S (2000) Learning transfer of movement speed and accuracy: effects of distance and direction. *Journal of Human Movement Studies*, 39:237-248
32. Jaric S, Latash ML. (2000) The equilibrium-point hypothesis is still doing fine. *Human Movement Science*, 19:933-938
33. Jaric S, Ugarkovic D, Kukolj M (2001) Anthropometric, strength, power and flexibility variables in elite male athletes: basketball, handball, soccer and volleyball players. *Journal of Human Movement Studies*, 40, 453-464
34. Matavulj D, Kukolj M, Ugarkovic D, Tihanyi J, Jaric S (2001) Effects of plyometric training on jumping performance in junior basketball players. *The Journal of Sport Medicine and Physical Fitness*, 41:159-164.
35. Domkin D, Laczko J, Jaric S, Johansson H, Latash ML (2002) Structure of joint variability in bimanual pointing tasks. *Experimental Brain Research*, 143: 11-23.
36. Latash ML, Jaric S (2002) The organization of drinking: kinematics of the arm-head coordination and the index of difficulty. *Journal of Motor Behavior*, 34:139-150.
37. Ugarkovic D, Matavulj D, Kukolj M, Jaric S (2002) Standard anthropometric, body composition, and strength variables as predictors of jumping performance in elite junior athletes. *Journal of Strength and Conditioning Research*, 16:227-230.
38. Jaric S, Ugarkovic D, Kukolj M (2002) Evaluation of methods for normalizing strength in elite and young athletes. *The Journal of Sport Medicine and Physical Fitness*, 42:141-151.

39. Jaric S, Radosavljevic-Jaric S, Johansson H (2002) Muscle force and muscle torque in humans require different methods when adjusting for differences in body size. *European Journal of Applied Physiology*, 87: 304-307.
40. Jaric S (2002) Muscle strength testing: use of normalization for body size. *Sports Medicine*, 32:615-631.
41. Mirkov DM, Milanovic S, Ilic DB, Jaric S (2002) Symmetry of discrete and oscillatory movements: does it depend on torque that the agonist and antagonist muscle can exert? *Motor Control*, 6:271-281.
42. Jaric S (2003) Role of body size in the relation between muscle strength and movement performance. *Exercise and Sport Science Reviews*, 31:8-12.
43. Michaelson P, Michaelson M, Jaric S, Latash ML, Sjolander P, Djupsjobacka M (2003) Vertical posture and head stability in patients with chronic neck pain. *Journal of Rehabilitation Medicine*, 35:229-235.
44. Aasa U, Jaric S, Barnekow-Bergkvist M, Johansson H (2003) Muscle strength assessment from functional performance tests: role of body size. *The Journal of Strength and Conditioning Research*, 17:664-670.
45. Kukolj M, Ugarkovic D, Jaric S (2003) Profiling anthropometric characteristics and functional performance of 13 to 18-years-old elite junior soccer players. *Journal of Human Movement Studies* 45:403-418
46. Mirkov D, Nedeljkovic A, Milanovic S, Jaric S (2004) Muscle strength testing: evaluation of tests of explosive force production. *European Journal of Applied Physiology* 91:147-154
47. Markovic G, Jaric S (2004) Movement performance and body size: the relationship for different groups of tests. *European Journal of Applied Physiology* 92:139-149
48. Latash ML, Jaric S, Scholz JP, Zatsiorsky VM (2004) Motor synergies and their changes with practice. *Journal of Human Kinetics* 12: 3-14
49. Aasa U, Barnekow-Bergkvist M, Jaric S, Johansson H (2004) Applying normalization of muscle strength for body size: does it depend on the functional performance to be assessed. *Journal of Human Movement Studies* 46:105-116
50. Domkin D, Laczko J, Djupsjobacka M, Jaric S, Latash ML (2005) Joint angle variability in 3D bimanual pointing: uncontrolled manifold analysis. *Experimental Brain Research* 163:44-57
51. Jaric S, Russell E, Collins JJ, Marwaha R (2005) Coordination of hand grip and load forces in uni- and bidirectional isometric force tasks. *Neuroscience Letters* 381:51-56
52. Jaric S, Mirkov D, Markovic G. (2005) Normalization of muscle strength and movement performance tests for body size: A proposal for standardization. *Journal of Strength and Conditioning Research* 19:467-474

53. Jaric S, Knight CA, Collins JJ, Marwaha R (2005) Evaluation of a method for testing coordination of grip and load forces under isometric conditions. *Journal of Electromyography and Kinesiology* 15:556-563
54. Markovic G, Jaric S (2005) Scaling of muscle power to body size: the effect of stretch-shortening cycle. *European Journal of Applied Physiology* 95:11-19
55. Jaric S, Collins JJ, Marwaha R, Russell EM (2006) Interlimb and within limb force coordination in static bimanual manipulation task. *Experimental Brain Research* 168:88-97
56. Marwaha R, Hall SJ, Knight CA, Jaric S (2006) Load and grip force coordination in static bimanual manipulation tasks in multiple sclerosis. *Motor Control* 10:160-177
57. Markovic G, Dizdar D, Jaric S (2006) Evaluation of tests of maximum kicking performance. *The Journal of Sport Medicine and Physical Fitness*, 46:215-20
58. Ferrand L, Jaric S (2006) Force coordination in static bimanual manipulation: effects of handedness. *Motor Control*, 10:359-370
59. Freitas PBJ de, Krishnan V, Jaric S (2007) Elaborate force coordination of precision grip could be generalized to bimanual grasping techniques. *Neuroscience Letters*, 412:179-184
60. Nedeljkovic A, Mirkov DM, Kukolj M, Ugarkovic D, Jaric S (2007) Effects of maturation on the relationship between physical performance and body size. *Journal of Strength and Conditioning Research*, 21:245-50
61. Nedeljkovic A, Mirkov DM, Pazin N, Jaric S (2007) Evaluation of Margaria staircase test: the effect of body size. *European Journal of Applied Physiology*, 100:115-20
62. Markovic G, Jaric S (2007) Is vertical jump height a body size independent measure of muscle power? *Journal of Sport Sciences*, 25:1355 - 1363
63. Markovic G, Jaric S (2007) Positive and negative loading and mechanical output in maximum vertical jumping. *Medicine & Science in Sports & Exercise*, 39(10):1757-1764
64. Freitas PB de, Krishnan V, Jaric S (2007) Force coordination in static manipulation tasks: effects of the change in direction and handedness. *Experimental Brain Research*, 183:487-497
65. Krishnan V, Freitas PB de, Jaric S. (2008) Impaired object manipulation in mildly involved individuals with multiple sclerosis. *Motor Control*, 11:3-20
66. Sjolander P, Michaelson P, Jaric S, Djupsjobacka M. (2008) Sensorimotor disturbances in chronic neck pain--range of motion, peak velocity, smoothness of movement, and repositioning acuity. *Manuel Therapy* 13(2):122-31
67. Freitas PB de, Markovic G, Krishnan V, Jaric S. (2008) Force coordination in static manipulation: Discerning the contribution of muscle synergies and cutaneous afferents. *Neurosci Let* 434(2):234-9
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27. Ilic,D.B., Corcos,D.M., Jaric,S., (1996): The role of final position programming while learning rapid discrete movements. 4th International Congress on Physical Education & Sport (Abstracts, p.191), Komotini, Greece.
28. Radovanovic,S., Jaric,S., Milanovic,S., Vuckovic,I., Ljubisavljevic,M., Anastasijevic,R., (1996) Effects of prior muscle vibration on performance of human elbow rapid movements. VIII International Symposium of Motor Control, (Abstracts p.83), Borovetz, Bulgaria.
29. Jaric,S., Latash,M.L. (1996) Two synergies used in a planar multi-joint task including obstacles avoidance. International Conference: Bernstein's Traditions in Motor Control, (Abstracts, p.65), University Park, PA, USA.
30. Ugarkovic,D., Eremija,M., Kukolj,M., Jaric,S. (1997) A new model of morphotype in early sport selection. 4th International Congress of Northern Greece Sports Medicine Association, Thessaloniki.
31. Kukolj,M., Ugarkovic,D., Ropret,R., Jaric,S. (1997) Differences in motoric abilities between elite football, basketball and handball players. 4th International Congress of Northern Greece Sports Medicine Association, Thessaloniki.
32. Laczko, J., Jaric, S., Latash, M.L., Zatsiorsky, V.M. (1997) The relation between individual joint kinematics and the minimal jerk principle as applied to the hand during planar movements. Annual Meeting of the Society for Neuroscience, (Abstracts p. 2089), New Orleans.
33. Tortoza, C., Fatarelli,I.F.C., Jaric,S., Almeida,G.L., Effects of direction and curvature on variable error pattern of reaching movements. III International Congress of Motor Rehabilitation (Revista Brasileira de Fisioterapia, Supl. 3, p. 97), Aguas de Lindoia, Brazil, October 1998.
34. Ferreira,S.M.S., Tortoza, C., Marconi,N.F., Jaric,S., Almeida,G.L., Effects of displacement and trajectory length on the final position variability of reaching movements. III

- International Congress of Motor Rehabilitation (Revista Brasileira de Fisioterapia, Supl. 3, p. 99), Aguas de Lindoia, Brazil, October 1998.
35. Talis V, Carvalho RL, Jaric S, Almeida GL (1999) Does constraining a redundant degree of freedom affect learning performance. International Conference: Progress in Motor Control - II, (Abstracts, p.158), University Park, PA, USA.
 36. Milanovic S, Ljubisavljevic M, Jaric S (1999) Kinematic and EMG correlates of temporary overshoots observed in rapid target-directed movements. International Conference: Progress in Motor Control - II, (Abstracts, p.110), University Park, PA, USA.
 37. Radovanovic, S., Ljubisavljevic, M., Lonn, J., Jaric, S., Johansson, H. (1999) The effects of muscle fatigue on kinematic patterns of vertical jump. Annual Meeting of the Society for Neuroscience, (Abstracts p. 910), Miami Beach.
 38. Jaric S, Radosavljevic-Jaric S, Johansson H. (2000) Normalization of muscle force and muscle torque for body size. 5th Annual Congress of the European College of Sport Science (Abstracts, p.353), Jyväskylä, Finland.
 39. Jaric S., Laczko J., Domkin D., Latash M.L., Johansson H. Discerning control movement strategies by an analysis of the structure of motor variability. Third International Conference “Progress in Motor Control: From Basic Science to Applications”, Montreal, Canada, August 15-18, 2001, Abstracts, p. 23.
 40. Jaric S, Aasa U, Barnekow-Bergkvist M, Johansson S (2002) Does normalization of muscle strength for body size depend on the functional performance to be assessed? Presented at the IV World Congress of Biomechanics, August 4-9, Calgary, Canada.
 41. Jaric S, Raudsepp J, Djupsjöbacka M, Mirkov DM, Sandlund J, Nedeljkovic A, Johansson H. Relationship between visually perceived external space and physical properties of human body. Progress in Motor Control IV, August 20-23, 2003, Caen, France.
 42. Michaelson P, Sjolander P, Djupsjöbacka M, Jaric S. Proprioception and kinematics in chronic neck pain: a comparison of whiplash- and work-related pain. Progress in Motor Control IV, August 20-23, 2003, Caen, France.
 43. Markovic G, Jaric S. Movement Performance and Body Size: Basic relationships for main groups of movement tasks. 7th IOC Olympic World Congress, Athens, Greece, October 2003.
 44. Mirkov D, Nedeljkovic A, Milanovic S, Jaric S. Muscle strength testing: evaluation of tests of explosive force production. 7th IOC Olympic World Congress, Athens, Greece, October 2003.
 45. Kukolj M, Ugarkovic D, Mirkov D, Jaric S. Profiling functional performance of 12 to 18 years-old elite junior soccer players. 7th IOC Olympic World Congress, Athens, Greece, October 2003.
 46. Markovic G, Jaric S. The effect of body size on the utilization of the stretch-shortening cycle. 10th Annual Congress of the European College of Sport Science, Belgrade 2005.

47. Russell EM, Collins JJ, Marwaha R, Jaric S. Coordination of hand grip and load forces in uni- and bidirectional static force production tasks. Progress in Motor Control-V, State College, PA, August 2005.
48. Marwaha R, Ferand L, Jaric S. Hand Function Impairment in Multiple Sclerosis. Progress in Motor Control-V, State College, PA, August 2005.
49. Collins JJ, Marwaha R, Russell EM, Jaric S. Inter-limb and within limb force coordination in static bimanual manipulation task. Progress in Motor Control-V, State College, PA, August 2005.
50. Nedeljkovic A, Mirkov DM, Kukolj M, Ugarkovic U, Jaric S. Effect of maturation on the relationship between physical performance and body size. 5th World Congress of Biomechanics, Munich, Germany, 2006.
51. Ferrand L, Jaric S. Effects of handedness on force coordination in bimanual manipulation tasks. 5th World Congress of Biomechanics, Munich, Germany, 2006.
52. Mirkov DM, Nedeljkovic A, Jaric S. Evaluation of soccer-specific field tests. 5th World Congress of Biomechanics, Munich, Germany, 2006.
53. Markovic G, Jaric S. Vertical jump height represents a body size independent index of muscle power. 5th World Congress of Biomechanics, Munich, Germany, 2006.
54. de Freitas PB, Krishnan V, Jaric S. Grip and load forces coordination in different grasping techniques. NorthEast American Society of Biomechanics Conference, Univ. Maryland, 2007. (*awarded for "the best experimental design"*)
55. Krishnan V, de Freitas PB, Jaric S. Hand function in mildly involved individuals with multiple sclerosis. NorthEast American Society of Biomechanics Conference, Univ. Maryland, 2007.
56. de Freitas PB, Krishnan V, Jaric S. Bimanual manipulation: effect of task direction on force coordination. CBER Biomechanics Research Symposium, U. Delaware 2007 (*awarded poster*)
57. Krishnan V, de Freitas PB, Jaric S. Hand force coordination in moderately involved individuals with multiple sclerosis. CBER Biomechanics Research Symposium, U. Delaware 2007 (*awarded podium presentation*)
58. Krishnan V, de Freitas PB, Jaric S. Force control during object manipulation in multiple sclerosis. Americas Committee for Treatment and Research in Multiple Sclerosis, Washington DC, 2007.
59. Mirkov D, Nedeljkovic A, Bozic P, Jaric S. Direct muscle power assessment: Role of body size. 12th Annual Congress of the European College of Sport Science, Javaskyla, Finland, 2007.
60. Nedeljkovic A, Mirkov D, Markovic S, Jaric S. Effect of body size on the structure of physical abilities. 12th Annual Congress of the European College of Sport Science, Javaskyla, Finland, 2007.

61. de Freitas PB, Krishnan V, Jaric S. Force coordination in static manipulation tasks: effect of the change in direction and handedness. Progress in Motor Control VI, Santos, Brazil, August 2007
62. de Freitas PB, Krishnan V, Markovic G, Jaric S. The potential role of muscle synergies and skin sensory receptors in force coordination in static manipulation. Progress in Motor Control VI, Santos, Brazil, August 2007 (*awarded poster presentation*)
63. de Freitas PB, Krishnan V, Jaric S. Effect of hand dominance on bimanual static manipulation task. Neuroscience 2007, San Diego, November 2007.
64. Krishnan V, de Freitas PB, Jaric S. Hand force control in moderately impaired individuals with multiple sclerosis. Neuroscience 2007, San Diego, November 2007.
65. Suzovic D, Nedeljkovic A, Jaric S. A novel method for testing neuromuscular function. 5th International Scientific Conference on Kinesiology, Zagreb, Croatia, September 10-14, 2008.
66. Markovic G, Knight CA, Jaric S. The force-rate of force development relationship in three types of isometric contractions. 13th Annual Congress of the European Congress of Sport Science, Portugal, July 2008.
67. Krishnan V, Jaric S. Hand force control during object manipulation in MS patients. Neuroscience 2008, Washington DC, November 2008.
68. de Freitas PB, Jaric S. The role of skin mechanoreceptors in force coordination of continuous manipulation tasks. Neuroscience 2008, Washington DC, November 2008.
69. Jaric S, Suzovic D, Nedeljkovic A. Brief force pulses: the relationship between the peak force and rate of force development. European College of Sport Sciences, Oslo, June 2009.
70. Nedeljkovic A, Suzovic D, Jaric S. Reliability and generalizability of maximum consecutive contractions as a test of neuromuscular function. European College of Sport Sciences, Oslo, June 2009.
71. Uygun M, Richards JG, Jaric, de Freitas PB, Barlow DA. Misstepping and hip fractures in the osteoporotic elderly. American Society of Biomechanics Annual Meeting, PennState, 2009.
72. Uygun M, de Freitas PB, Jaric. Frictional properties of the hand skin. American Society of Biomechanics Annual Meeting, PennState, 2009.
73. Krishnan V, Jaric S. Force coordination in bimanual static prehension. Society for Neuroscience Conference, Chicago, 2009.
74. Uygun M, de Freitas PB, Jaric S. Effects of the load force range and frequency on grip force coordination in static manipulation. 7th Annual Biomechanics Research Symposium, Center for Biomedical Engineering Research, University of Delaware, 2010.
75. Jin X, Uygun M, Jaric S. Hand force coordination: effects of hand position and orientation in egocentric space. 7th Annual Biomechanics Research Symposium, Center for Biomedical Engineering Research, University of Delaware, 2010.

76. Uygur M, de Freitas PB, Jaric S. Effects of external force range and frequency on hand grip control in manipulation tasks. 15th Annual Congress of European College of Sport Science, Antalya, Turkey, June 2010. (*awarded oral presentation*)
77. Nedeljkovic A, Pazin N, Bozic P, Berjan B, Jaric S. Wingate anaerobic test: does the optimal load depend on training history? 15th Annual Congress of European College of Sport Science, Antalya, Turkey, June 2010.
78. Bozic P, Pazin N, Bobana B, Berjan B, Jaric S. Sensitivity of consecutive maximum contractions as an alternative test of neuromuscular function. 15th Annual Congress of European College of Sport Science, Antalya, Turkey, June 2010.
79. de Freitas PB, Uygur M, Jaric S. Grip control during manipulation of hand-held objects: absolute vs relative safety margin. 15th Annual Congress of European College of Sport Science, Antalya, Turkey, June 2010.
80. Pazin N, Nedeljkovic A, Bozic P, Berjan B, Malobabic V, Jaric S. The maximum dynamic output in jumping: effects of external loading and training history. 15th Annual Congress of European College of Sport Science, Antalya, Turkey, June 2010.
81. Berjan B, Kukolj M, Pazin N, Bozic P, Mirkov D, Jaric S. Evaluation of composite test of kicking performance in elite young soccer players. 15th Annual Congress of European College of Sport Science, Antalya, Turkey, June 2010.
82. Bozic P, Pazin N, Malobabic V, Jaric S. The predictive power of bidirectional consecutive maximum contractions as a test of muscle function. 15th Annual Congress of European College of Sport Science, Antalya, Turkey, June 2010.
83. Jin X, Uygur M, Jaric S. Effects of instructions and hand dominance on grip force coordination in manipulation tasks. 8th Annual Biomechanics Research Symposium, Newark, 2011.
84. Uygur M, Jin X, Jaric S. Grip force control in circular manipulation tasks. 8th Annual Biomechanics Research Symposium, Newark, 2011.
85. O'Neal, Needle AR, Swanik CB, Jaric S, Glutting JJ, Kaminski TW. The effects of fatigue and gender on reach scores in high school athletes. National Athletic Trainers' Association Conference, New Orleans 2011.
86. Leontijevic B, Pazin N, Bozic P, Kukolj M, Ugarkovic D, Jaric S. Effects of loading on maximum vertical jumps: selective effects of weight and inertia. 16th Annual Congress of the ECSS, Liverpool, UK, 2011.
87. Nedeljkovic A, Pazin N, Bozic P, Berjan B, Jaric S. 6-S maximal cycling sprint test: the prediction of optimum loading for maximizing muscle power output. 16th Annual Congress of the ECSS, Liverpool, UK, 2011.
88. Jaric S, Jin X, Uygur M. Grip force coordination in circular manipulation tasks. Neuroscience Conference, Washington DC, 2011.

89. Uygun M, Prebeg G, Jaric S. Comparison of two commonly used methods of grip force calculation in static manipulation tasks. CBER Conference, University of Delaware, April 2012.
90. Suzovic D, Markovic G, Pasic M, Jaric S. Optimum loading in vertical jumps supports the maximum dynamic output hypothesis. 17th Annual Congress of ECSS, Bruges, Belgium, 2012
91. Suzovic D, Markovic P, Planic N, Jaric S. Effects of elastic resistance training on the jab punch performance. 17th Annual Congress of ECSS, Bruges, Belgium, 2012
92. Jaric S, Suzovic D, Pasic M, Markovic G. Performance and power output in vertical jumps performed with positive and negative loading. 18th Annual Congress of ECSS, Barcelona, Spain, 2013
93. Suzovic D, Prebeg G, Cuk I, Stojiljkovic S, Mitic D, Jaric S. Relationships among the muscle strength properties as assessed through SST and APMC tests. 19th Annual Congress of ECSS, Amsterdam, Netherland, 2014
94. Mirkov DM, Knezevic OM, Nedeljkovic A, Kadija M, Jaric, S. Asymmetries in rate of force development following anterior cruciate ligament reconstruction. 19th Annual Congress of ECSS, Amsterdam, Netherland, 2014
95. Nedeljkovic A, Cuk I, Markovic M, Ugarkovic D, Kukulj M, Jaric S. Force-velocity relationship of leg extensors obtained from loaded and unloaded vertical jumps. 19th Annual Congress of ECSS, Amsterdam, Netherland, 2014
96. Pajić S, Drljagic D, Nedeljkovic A, Knezevic O, Milanovic SD, Jaric S, Ilic TV. Assessment of hand force coordination in unimanual manipulation tasks in patients with moderate Parkinson's disease without levodopa-induced dyskinesias. 30th International Congress of Clinical Neurophysiology, Berlin, Germany, 2014.
97. Jaric S, Cuk I, Markovic M, Nedeljkovic A, Mirkov D, Kukulj M. Sensitivity of the force-velocity relationship of leg extensors obtained from loaded and unloaded vertical jumps. 19th Annual Congress of ECSS, Amsterdam, Netherland, 2014
98. Mandic R, Jakovljevic S, Jaric S. Testing maximum vertical jumps: role of the countermovement depth. Progress in Motor Control X, Budapest, Hungary, 2015
99. Mudric M, Cuk I, Nedeljkovic A, Jovanovic S, Jaric S. Evaluation of video-method for the measurement of reaction time in specific sport situation. Progress in Motor Control X, Budapest, Hungary, 2015
100. Lima K, Morton P, Uygun M, de Freitas PB, Jaric S. Force coordination in uni- and bidirectional manipulation tasks performed in different directions. CBER Biomechanics Symposium, U. Delaware, April 2016
101. Lima K, Jaric S, Uygun M, de Freitas PB. Hand and digits dexterity and grip strength in Individuals with diabetic peripheral neuropathy. 9th World Congress for Neurorehabilitation, Philadelphia, May 2016

102. Pérez-Castilla A., García-Ramos A., Feriche B., Padial P., Jaric S. Evaluation of the novel “two-load method” for quick assessment of the mechanical capacities of the leg muscles. Motor Control 2016 - Bridging Motor Control and Biomechanics, Wisla, Poland, September 2016.
103. García-Ramos A., Jaric S., Pérez-Castilla A., Padial P., Feriche B. Reliability of mechanical variables assessed from the loaded squat jump. Motor Control 2016 - Bridging Motor Control and Biomechanics, Wisla, Poland, September 2016.
104. Jaric S, Dobrijevic S, Djuric S, Ilic V. Force-velocity relationship of leg muscles assessed by motorized treadmill tests. 35th Conference of the International Society of Biomechanics in Sports, Proceedings: pp. 520-524, Cologne, Germany, June 2017.
105. Suzovic D, Zivkovic MZ, Djuric S, Cuk I, Jaric S. A simple method for assessment of muscle force, velocity, and power producing capacities from functional movement tasks. 35th Conference of the International Society of Biomechanics in Sports, Proceedings: pp. 141-145, Cologne, Germany, June 2017.
106. Nedeljkovic A, Mudric M, Cuk I, Jovanovic S, Jaric S. Does specialization in karate affect reaction time in specific karate kumite situations? 35th Conference of the International Society of Biomechanics in Sports, Proceedings: pp. 404-408, Cologne, Germany, June 2017.
107. Mirkov D, Knezevic OM, Jaric S. Assessment of thigh muscles mechanical capacities following acl reconstruction using the two-velocity method. 35th Conference of the International Society of Biomechanics in Sports, Proceedings: pp. 1160-1164, Cologne, Germany, June 2017.

INVITED PRESENTATIONS AT INTERNATIONAL CONFERENCES

1. Jaric S "Role of the agonist and antagonist muscle in movement performance". Invited lecture at III International Congress of Motor Rehabilitation, Aguas de Lindoia, Brazil, October 1998.
2. Jaric S “Is movement symmetry predominantly affected by biomechanical or neural factors?”, Invited lecture, International Conference on Motor Control, Katowice, Poland, 2000.
3. Jaric S "The relationship between muscle strength and movement performance: What is the role of body size?" Invited lecture at 3rd International Conference on Strength Training, Budapest, Hungary, Abstract Book, pp. 26-30, 13-17 November, 2002.
4. Jaric S "Strength, performance and body size", presentation invited by the Organizing Committee of the 7th IOC Olympic World Congress, Athens, Greece, October 2003.
5. Jaric S, Knight CA, Scholz JP "Coordination of hand grip with external load in uni- and bimanual tasks". Invited presentation at Motor Control 2004, Wisla, Poland, October 2004, Abstract Book pp. 19-28.

6. Latash ML, Jaric S, Scholz JP, Zatsiorsky VM "Motor synergies and their changes with practice". Invited presentation at Motor Control 2004, Wisla, Poland, October 2004 (with M. L. Latash, V. M. Zatsiorsky and J. P. Scholz) Abstract Book pp. 8-18.
7. Jaric S "Body scaling", Motor Development Research Consortium, University of Delaware, Nov 5-6, 2004.
8. Jaric S "Changes in structure of variability associated with practice", 10th Annual Congress of the European College of Sport Science, 2005.
9. Jaric S "Muscle strength and movement performance: effect of body size", XIII International Congress "Science Applied in Physical Education and Sports", Monterrey, Mexico, October 2005.
10. Jaric S "Effects of maturation and contraction regime on the performance-body size relationship", XIII International Congress "Science Applied in Physical Education and Sports", Monterrey, Mexico, October 2005.
11. Jaric S. 'Normalization of muscle power for body size'. Invited presentation at the International Congress "Performance Evaluation in Sports", Belgrade, December 2006
12. Jaric S. Role of force coordination in object manipulation. 3rd School of Physiology of Physical Activity, Poland, Katowice, May 24-26, 2007.
13. Jaric S. Force coordination in manipulation tasks: the effects of grasping techniques. 5th International Scientific Conference on Kinesiology, Zagreb, Croatia, September 10-14, 2008.
14. Jaric S. Force coordination in object manipulation. Motor Control 2008 - From Theory to Clinical Application, Zakopane, Poland, 2008.
15. Jaric S "Relationship between the muscle power output and movement performance as assessed by routine physical performance tests" 15th Annual Congress of European College of Sport Science, Antalya, Turkey, June 2010.
16. Jaric S. Grip force control in static manipulation tasks. Motor Control 2012 conference, Wisla, Poland, September 2012.
17. Jaric S. "Mechanical properties of leg muscles: a strength-independent optimum loading in vertical jumping", International Scientific Conference "Exercise and Quality of Life", Novi Sad, April 2013.
18. Jaric S. "Effects of loading of leg muscles" International conference "Effects of Physical Activity on Anthropometric Status", International Conference University of Belgrade, Faculty of Sport and Physical Education, December 2013.
19. Jaric S. Assessment of muscle force, velocity, and power producing capabilities through loaded multi-joint movements. Keynote Lecture, 1st International Symposium on Sport Science, Engineering, and Technology, Istanbul, Turkey, May10-13, 2015.
20. Jaric S. Can we test muscle mechanical properties through multi-joint movements? Invited presentation at the 1st Balkan Aspetar Sports Medicine Conference, Belgrade, Serbia, May 21-23, 2015.

21. Jaric S. Force and power producing properties of multi-joint muscular systems. Plenary Lecture presented at the opening of the International Scientific Conference "Contemporary Kinesiology", Split, Croatia, August 28-30, 2015.
22. Jaric S. Selective assessment of muscle mechanical properties through loaded functional movements. 2nd International Conference in Physical Education, Sport and Health, Skopje, Macedonia, June 2016.
23. Jaric S. Coordination of vertical jumps: a trade-off between conflicting strategies? Motor Control 2016 - Bridging Motor Control and Biomechanics, Wisla, Poland, September 2016.

INVITED PROFESSIONAL PRESENTATIONS

1. Jaric S "Relations between complex human movements and biomechanical properties of active muscles". University of Illinois, Chicago, 1986.
2. Jaric S "Biomechanics of human movements - achievements and limitations". Kolarcević University, Belgrade, 1989.
3. Jaric S "Learning of movements performed under different mechanical conditions: A test of motor control theories". Hungarian University of Physical Education, Budapest, 1995.
4. Jaric S "Do prior muscle vibrations affect programming of rapid movements?", Institute of Work Physiology, University of Umea, Umea, Sweden, 1995.
5. Jaric S "The effect of muscle vibration on movement programming", Interactive Seminars in Motor Control and Coordination, Penn State University, USA, 1995.
6. Jaric S "Changes in symmetry of rapid movements: Effects of velocity and viscosity", Interactive Seminars in Motor Control and Coordination, Penn State University, USA, 1997.
7. Jaric S "Movement kinematics and movement variability", Interactive Seminars in Motor Control and Coordination, Penn State University, USA, 1999.
8. Jaric S. Normalizing muscle strength for body size, Interactive Seminars in Motor Control and Coordination, Penn State University, USA, 2000.
9. Jaric S. Role of biomechanical properties of active muscles in movement kinematic pattern", Interactive Seminars in Motor Control and Coordination, Penn State University, 2001.
10. Jaric S. Basic concepts of motor learning. Muskelfondnorr, Umea, Sweden, 2001.
11. Jaric S. Force coordination in static bimanual manipulation. Action Club Seminars, Penn State University, 2006.
12. Jaric S. Force coordination in bimanual manipulation tasks. Dept. Kinesiology, Univ. Massachusetts, Amherst, 2007.
13. Jaric S. Grip force control in manipulation activities. Pennsylvania State University, October 2009.

14. Jaric S. Effects of external loading on maximum movement performance and power output. Aristotle University at Thessaloniki, Serres, January 2011.
15. Jaric S. Assessment of neuromuscular function based on short-lasting muscular contractions, Action Club, Dept. Kinesiology, Penn State University, October 2011
16. Jaric S. Vertical Jumping: the Maximum Dynamic Output Hypothesis. College of Sport and Physical Education, Semmelweis Medical University, Budapest, Hungary, June 2012.
17. Jaric S. "Specific mechanical properties of leg muscles: a strength-independent behavior", Action Club, Penn State University, October 2013.
18. Jaric S. Hand function studied through force coordination in manipulation tasks. Academy of Physical Education, Katowice, Poland, November 2015.
19. Jaric S. Force, velocity, and power producing properties of multi-joint muscular systems. Academy of Physical Education, Katowice, Poland, November 2015.
20. Jaric S. Mechanical capacities of active muscles assessed from single-joint movements and loaded functional tasks, University of Ljubljana, Slovenia, June 2016.
21. Jaric S. Force-velocity relationship of muscles performing functional tasks: recent findings and practical implications, University of Mainz, Germany, June 2017.
22. Jaric S. Methods for the assessment of mechanical capacities of active muscles, University of Mainz, Germany, June 2017.

LOCAL PRESENTATIONS:

1. Jaric S. Human movements and body size: how to normalize outcome of different tests, BIOMS seminar, University of Delaware 2003.
2. Jaric S. Scaling of physical performance to body size, BIOMS seminar, University of Delaware, 2004.
3. Jaric S. Hand function in Multiple Sclerosis. Annual Meeting of the Delaware Chapter of National Multiple Sclerosis Society, Newark, 2004.
4. Jaric S. Body scaling. Motor Development Research Consortium, University of Delaware, 2004.
5. Jaric S. A new approach to assessment of hand function in MS. Board of Trustees of the Delaware Chapter of National Multiple Sclerosis Society, Wilmington, 2005.
6. Jaric S. Coordination of hand grip and load forces in isometric manipulation tasks, BIOMS seminar, University of Delaware, 2005.
7. Jaric S. Force coordination in isometric manipulation tasks, University of Delaware, 2006.
8. Jaric S. Force coordination in manipulation activities. NIH INBRE Lecture Series, University of Delaware, October 2007.
9. Jaric S. Control of hand grip force, BIOMS seminar, University of Delaware, 2009.

10. Jaric S. Body mass maximizes power output in human jumping: a strength-independent optimum loading behavior. BIOMS seminar, University of Delaware, 2012.
11. Emge N, Uygur M, Jaric S. Effects of muscle fatigue on force coordination and performance of manipulation tasks. 10th Annual Biomechanics Research Symposium, Newark, 2013
12. Jaric S. Assessment of muscle mechanical properties from loaded functional movements. BIOMS seminar, University of Delaware, 2015.
13. Jaric S. Two-load method for the assessment of muscle mechanical capacities. BIOMS seminar, University of Delaware, 2017.

WORKSHOPS:

1. Jaric S. Testing of physical performance, Workshop at XIII International Congress "Science Applied in Physical Education and Sports Sciences", Monterrey, Mexico, October 2005.
2. Jaric S. Effects of maturation and contraction regime on the performance-body size relationship. Workshop at XIII International Congress "Science Applied in Physical Education and Sports Sciences", Monterrey, Mexico, October 2005.
3. Jaric S. Scientific education in kinesiology, Workshop at 3rd School of Physiology of Physical Activity, Poland, Katowice, May 24-26, 2007.
4. Jaric S. Grip and load force control in static manipulation. 9th Annual Motor Control Summer School, Balaton, Hungary, June 13-18, 2012.
5. Jaric S. Hand function studied through force coordination in manipulation tasks. 11th Annual Motor Control Summer School, Bled, Slovenia, June 27-29, 2014. 20.
6. Jaric S. How to publish a research paper. Four-hours workshop. Academy of Physical Education, Katowice, Poland, November 2015.
7. Jaric S. How to design and publish research. Seven-hours workshop. School of Sport and Physical Education, University of Nis, Serbia, December 2015.

OTHER PROFESSIONAL INVITATIONS

1. Opponent: Reijo Brottas, Motor Control of Fast Voluntary Elbow Movements: Exercise-Induced Muscle Damage and Soreness and Learning Interventions, PhD thesis defense, University of Jyvaskyla, Finland, June 2011.