CV

Prof. Dr. Dragan Mirkov

Born on 10.05.1968, in Reutlingen, Germany

PROFESSIONAL ADDRESS

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EDUCATION

SCHOOL	*LOCATION*	*DATE*	*DEGREE*
University of Belgrade Physics	Belgrade, Yugoslavia	1994	B.S.
University of Belgrade Biophysics	Belgrade, Yugoslavia	2001	M.S.
University of Belgrade Faculty of Sport and Physical Education	Belgrade, Yugoslavia	2003	Ph.D.

PROFESSIONAL INFORMATION

DATE	INSTITUTION	Visiting Professor POSITION
2016-present	College of Applied Sciences „Lavoslav Ružička“ in Vukovar	Visiting Professor
2015-present	Justus Liebig University Gießen, Department of Sports Science	Guest Professor

2014-present	University of Belgrade, Faculty of Sport and Physical Education	Professor
2011-present	Justus Liebig University Gießen, Department of Sports Science	Visiting Researcher
2010-present	University of Zagreb, School of Kinesiology	Professor (visiting)
2010-present	University of Split, School of Kinesiology	Researcher (visiting)
2010-present	University of Novi Sad, Faculty of Sport and Physical Education	Professor (visiting)
2010-present	University of Belgrade, Institute for Medical Research, Belgrade	Visiting Researcher
2009-2014	University of Belgrade, Faculty of Sport and Physical Education	Associate Professor
2010-2011	Comenius University of Bratislava, Faculty of Physical Education and Sports	Visiting Researcher
2003-2009	University of Belgrade, Faculty of Sport and Physical Education	Assistant Professor
1997-2003	University of Belgrade, Medical School	Teaching Assistant
1994-1997	Elementary school "Milos Crnjanski", Belgrade, Serbia	Teacher
1997-2009	Anglo-American High School, Belgrade, Serbia	Teacher

MANAGING EXPERIENCE

2008-2011 Vice-Dean for Financial Affairs; Faculty of Sport and Physical Education, Belgrade

PROFESSIONAL ACTIVITIES

2013-present	Sport Medical Solutions	Co-founder: • Research and development of professional measurement equipment for sport and rehabilitation
2011-present	FITNESS MEDICO	Consultant: • Injury risk assessment and prevention • Follow up of rehabilitation procedures • Assessment of physical abilities
2011-present	Center for Health and Sport Sciences (CHESS)	Consultant: • Assessment of motor abilities • Education • Research
2008-2011	Center for Sport Training and Diagnostic D&D	Consultant: • Assessment of physical abilities

EDITORIAL BOARDS

Plos ONE
Kinesiologica Slovenica
Physical Culture

REVIEWER

Experimental Brain Research
Journal of Sport Sciences
Journal of Strength Conditioning and Research
PLOS ONE
Journal of Applied Biomechanics
Journal of Human Movement Kinesiology

MEMBERSHIPS

European College of Sport Science
Sports Medicine Association of Serbia

LANGUAGES

SERBIAN and CROATIAN: Native; GERMAN AND ENGLISH: FLUENTLY

PUBLICATIONS

BOOK CHAPTERS

1. Milanović I, Knezevic OM, Marković MM, Rakić SR, Radisavljević Janić S, Mirkov DM, In: Eminovic F, and Dopsaj M (Ed). Physical Activity Effects on the Anthropological Status of Children, Youth and Adults, 2016
2. Markovic G, Mirkov DM, Jaric S. Maximum Exercise Performance and Body Size. In: R.L. Swan (Ed) Trends in Exercise and Health Research, Nova Science Publishers, 2005, pp. 167-186.

INTERNATIONAL JOURNALS:

1. Janicijevic D, García-Ramos A, Knezevic OM, Mirkov DM. Feasibility of the two-point method for assessing the force-velocity relationship during lower-body and upper-body isokinetic tests. J Sports Sci. 2019 Jun 30:1-7. doi:10.1080/02640414.2019.1636523.
2. Janicijevic DN, Knezevic OM, Mirkov DM, Pérez-Castilla A, Petrovic MR, García-Ramos A. Magnitude and reliability of mechanical outputs obtained during loaded squat jumps performed from different knee angles. Sports Biomech. 2019 Jun 24:1-13. doi: 10.1080/14763141.2019.1618390.
3. Milanovic I, Radisavljevic-Janic S, Zivkovic MZ, Mirkov DM. Health-related physical fitness levels and prevalence of obesity in Serbian elementaryschoolchildren. Nutr Hosp. 2019 Apr 10;36(2):253-260. doi: 10.20960/nh.2041.
4. Petronijevic MS, Garcia Ramos A, Mirkov DM, Jaric S, Valdevit Z, Knezevic OM. Self-Preferred Initial Position Could Be a Viable Alternative to the Standard Squat Jump Testing Procedure. J Strength Cond Res. 2018 Nov;32(11):3267-3275. doi: 10.1519/JSC.0000000000002385.Grbic V, Djuric S, Knezevic OM, Mirkov DM, Nedeljkovic A, Jaric S. A Novel Two-Velocity Method for Elaborate Isokinetic Testing of Knee Extensors. Int J Sports Med. 2017 Sep;38(10):741-746.
5. Mirkov DM, Knezevic OM, Maffuiletti NA, Nedeljkovic A, Kadija M, Jaric S. Contralateral limb deficit after ACL-reconstruction: An analysis of early and late phase of rate of force development. J Sport Sci. J Sports Sci. 2017 Mar;35(5):435-440.
6. Cuk I, Prebeg G, Sreckovic S, Mirkov DM, Jaric S. Generalization of Muscle Strength Capacities as Assessed From Different Variables, Tests, and Muscle Groups. J Strength Cond Res. 2017 Feb;31(2):305-312.
7. Mandic R, Knezevic OM, Mirkov DM, Jaric S. Control strategy of maximum vertical jumps: The preferred countermovement depth may not be fully optimized for jump height. J Hum Kinet. 2016 Sep 10;52:85-94.
8. Cuk I, Mirkov DM, Nedeljkovic A, Ugarkovic D, Kukolj M, Jaric S. Force-velocity property of leg muscles in individuals of different level of physical fitness. Sports Biomech, 2016 Jun;15(2):207-19..
9. Djuric S, Cuk I, Sreckovic S, Mirkov DM, Nedeljkovic A, Jaric S. Selective Effects of Training Against Weight and Inertia on Muscle Mechanical Properties. Int J Sports Physiol Perform. 2016 Oct;11(7):927-932.
10. Kadija M, Knezević OM, Milovanović D, Nedeljković A, Mirkov DM. The effect of anterior cruciate ligament reconstruction on hamstring and quadriceps muscle function outcome ratios in male athletes. Srp Arh Celok Lek. 2016 Mar-Apr;144(3-4):151-7
11. Sreckovic S, Cuk I, Djuric S, Nedeljkovic A, Mirkov DM, Jaric S. Evaluation of force-velocity and power-velocity relationship of arm muscles. Eur J Appl Physiol. 2015 2015 Aug;115(8):1779-87.
12. Pašić M, Milanović I, Radisavljević Janić S, Jurak G, Sorić M, Mirkov DM. Physical activity levels and energy expenditure in urban Serbian adolescents -a preliminary study. Nutr Hosp. 2014;30(5):1044-1053
13. Knezevic OM, Mirkov DM, Kadija M, Nedeljkovic A, Jaric S. Asymmetries in explosive strength following anterior cruciate ligament reconstruction. Knee. 2014 Jul 27. pii: S0968-0160(14)00166-5

14. Markovic S, Mirkov DM, Nedeljkovic A, Jaric S. Body size and countermovement depth confound relationship between muscle power output and jumping performance. Hum Mov Sci. 2014 Feb;33:203-10.
15. Knezevic OM, Mirkov DM, Kadija M, Milovanovic D, Jaric S. Evaluation of isokinetic and isometric strength measures for monitoring muscle function recovery after anterior cruciate ligament reconstruction. J Strength Cond Res. 2014 Jun;28(6):1722-31.
16. Radisavljevic-Janic S, Milanovic I, Zivkovic M, Mirkov DM. Prevalence of overweight and obesity among Belgrade youth: A study in a representative sample of 9-14-year-old children and adolescents. Anthropological Notebooks; 2013 Dec;19(3):71-80
17. Markovic S, Mirkov DM, Knezevic OM, Jaric S. Jump training with different loads: effects on jumping performance and power output. Eur J Appl Physiol. 2013 Oct;113(10):2511-21.
18. Sekulic D, Spasic M, Mirkov D, Cavar M, Sattler T. Gender-specific influences of balance, speed, and power on agility performance. J Strength Cond Res. 2013 Mar;27(3):802-11.
19. Knežević OM, Mirkov DM. Strength assessment in athletes following an anterior cruciate ligament injury. Kineziologija. 2013;45(1):3-15.
20. Knezevic O, Mirkov D. Trunk muscle activation patterns in subjects with low back pain. Vojnosanit Pregl 2013 Mar;70(3):315-8.
21. Knezevic OM, Mirkov DM, Kadija M, Milovanovic D, Jaric S. Alternating Consecutive Maximum Contraction as a Test of Muscle Function in Athletes Following ACL Reconstruction. J Hum Kinet. 2012 Dec;35:5-13.
22. Berjan Bacvarevic B, Pazin N, Bozic PR, Mirkov D, Kukolj M, Jaric S. Evaluation of a composite test of kicking performance. J Strength Cond Res. 2012 Jul;26(7):1945-52.
23. Dubljanin-Raspopovic E, Kadija M, Mirkov D, Bumbasirevic M. [Importance of open and closed kinetic chain exercises after anterior cruciate ligament reconstruction]. Vojnosanit Pregl. 2011 Feb;68(2):170-4.
24. Kadija M, Knezevic O, Milovanovic D, Bumbasirevic M, Mirkov DM. Effect of isokinetic dynamometer velocity on muscle strength deficite in elite athletes. Medicina Dello Sport, 2010; 63(4): 495-508.
25. Mirkov DM, Kukolj M, Ugarkovic D, Koprivica VJ, Jaric S. Development of anthropometric and physical performance profiles of young elite male soccer players: a longitudinal study. J Strength Cond Res. 2010 Oct;24(10):2677-82.
26. Nedeljkovic A, Mirkov DM, Markovic S, Jaric S. Tests of muscle power output assess rapid movement performance when normalized for body size. J Strength Cond Res. 2009 Aug;23(5):1593-605.
27. Nedeljkovic A, Mirkov DM, Bozic P, Jaric S. Tests of muscle power output: the role of body size. Int J Sports Med. 2009 Feb;30(2):100-6.
28. Mirkov D, Nedeljkovic A, Kukolj M, Ugarkovic D, Jaric S. Evaluation of the reliability of soccer-specific field tests. J Strength Cond Res. 2008 Jul;22(4):1046-50.
29. Nedeljkovic A, Mirkov DM, Pazin N, Jaric S. Evaluation of Margaria staircase test: the effect of body size. Eur J Appl Physiol. 2007 May;100(1):115-20.
30. Nedeljkovic A, Mirkov DM, Kukolj M, Ugarkovic D, Jaric S. Effect of maturation on the relationship between physical performance and body size. J Strength Cond Res. 2007 Feb;21(1):245-50.
31. Jaric S, Mirkov D, Markovic G. Normalizing physical performance tests for body size: a proposal for standardization. J Strength Cond Res. 2005 May;19(2):467-74.
32. Mirkov DM, Nedeljkovic A, Milanovic S, Jaric S. Muscle strength testing: evaluation of tests of explosive force production. Eur J Appl Physiol. 2004 Mar;91(2-3):147-54.
33. Mirkov DM, Milanovic S, Ilic DB, Jaric S. Symmetry of discrete and oscillatory elbow movements: does it depend on torque that the agonist and antagonist muscle can exert? Motor Control. 2002 Jul;6(3):271-81.
34. 23. Mirkov DM, Ilic DB, Jaric S. Learning transfer of movement speed and accuracy: effects of distance and direction. Journal of Human Movement Studies, 2000; 39:237-248
35. Ilic DB, Mirkov D, Jaric S. Learning transfer from flexion to extension movements: importance of the final position. Motor Control. 1998 Jul;2(3):221-7.

REFEREED PUBLICATIONS (in Serbo-Croatian)

1. Banicević D, Marković S, Knežević O, Nedeljković A, Mirkov DM, Dopsaj M. (2012). Reliability and validity of bilateral alternating consecutive maximum contractions as a test of neuromuscular function: a pilot study. Serbian Journal of Sport Sciences, 6(4): 137-145.
2. Knežević O, Mirkov D. (2011). Strength and power of knee extensor muscles. Physical Culture, vol. 65, br. 2, str. 5-15.
3. Banicević D, Marković S, Pažin N, Božić P, Radovanović S, Mirkov D (2008) Reliability of modified clinical test of sensory interaction on postural stability of 10-12 years old athletes. Yearly Book, Faculty of Physical Education, br. 15, str. 100-110, 2007-2008.
4. Mirkov DM, Nedeljković A. (2003): Sensitivity and reliability of strength and RFD tests after resistance training interventions. Physical Culture, vol. 56. 1-4, 34-42.

CONFERENCE PAPERS (International)

1. Knezevic OM, Kadija M, Milovanović D, Blesić S, Drljačić D, Mirkov DM. Differences in neuromuscular function between athletes with and without ACL re-injury – a retrospective preliminary research. 5th International scientific conference Contemporary Kinesiology, Split, Croatia, August 28-30, 2015. Proceedings book, pp. 411-417.
2. Mirkov DM, Knezevic OM, Nedeljkovic A. Effect of different joint angles on the knee flexor and extensor rate of force development during maximal isometric contraction. International scientific conference effects of physical activity application to anthropological status with children, youth, and adults. University of Belgrade, Faculty of Sport and Physical Education, Republic of Serbia, Belgrade, 11-12 December 2014; Proceedings book, pp. 164-171.
3. Markovic S, Banicevic D, Nedeljkovic A, Knezevic OM, Mirkov DM. The structure of physical abilities assessed by the test of alternating consecutive maximum contractions. International scientific conference effects of physical activity application to anthropological status with children, youth, and adults. University of Belgrade, Faculty of Sport and Physical Education, Republic of Serbia, Belgrade, 11-12 December 2014; Proceedings book, pp. 182-191.
4. Ćuk I, Đurić S, Knežević O, Mirkov DM. Evaluation of field tests for assessment of upper-body power based on explosive push-ups - pilot study. International scientific conference effects of physical activity application to anthropological status with children, youth, and adults. University of Belgrade, Faculty of Sport and Physical Education, Republic of Serbia, Belgrade, 11-12 December 2014; Abstract book pp. 73.
5. 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 the European College of Sport Science, Amsterdam, The Netherlands 2nd - 5th July 2014. Abstract book, pp 389.
6. Knezevic O, Mirkov DM, Drljacic D, Kadija M. Rate of Force Development as an Adjunctive Outcome Measure in patients rehabilitating after anterior cruciate ligament reconstruction: Patellar tendon vs. semitendinosus gracilis tendon. 6th Conference for Youth Sport. Bled, Slovenia December 06-09, 2012.
7. Mirkov DM, Knezevic O. Assessment of neuromuscular function in patients after ACL reconstruction: Overview of different testing protocols. 6th International Posture symposium September 15-18, 2011 Smolenice castle, Slovakia, September, 2011.
8. Mirkov D, Knezevic O, Jelic M, Sikimic M, Ilic V, Nesic G. Profiling functional performance of 14-16 year old female volleyball players, 16th Annual Congress of the European College of Sport Science, Liverpool, UK, July, 2011.
9. Knezevic O, Mirkov DM. Prediction of optimal HQ ratio in test of consecutive maximal contractions, 16th Annual Congress of the European College of Sport Science, Liverpool, UK, July, 2011.
10. Knezevic O, Kadija M, Milovanovic D, Mirkov DM. Primena testa skok uvis sa jedne noge u praćenju oporavka nakon operacije LCA: Pilot studija. Međunarodna naučna koferencija „Sport za sve“, Beograd, Srbija, Decembar 10-11.2010. 15th Annual Congress of the European College of Sport Science, Antalya, Turkey, June, 2010.
11. Knezevic O, Pazin N, Planic N, Mirkov DM. Effect of different joint angles on the knee flexor and extensor rate of force development during maximal isometric contraction. 7th International Conference on Strength Training. Bratislava: Faculty of Physical Education and Sport, October 2010.
12. Knezevic O, Pazin N, Kadija M, Milovanovic D, Mirkov DM. Prediction of optimal isometric hamstring to quadriceps ratio. 7th International Conference on Strength Training. Bratislava: Faculty of Physical Education and Sport, October, 2010.
13. Knezevic O, Kadija M, Milovanovic D, Pazin N, Mirkov D. Sensitivity of a novel muscle strength test applied on the athletes with acl injuries. 15th Annual Congress of the European College of Sport Science, Antalya, Turkey, June, 2010.

14. Knezevic O, Kadija M, Milovanovic D, Mirkov D. Isometric and isokinetic muscle strength evaluation following ACL reconstruction in elite athletes: Pilot study, FISU Conference, 25th Universiade, Belgrade, Serbia, July 2009.
15. Mirkov D, Knezevic O, Kadija M, Milovanovic D, Pazin N. Evaluation of a novel muscle strength test for athletes with ACL injury, 14th Annual Congress of the European College of Sport Science, Oslo, Norway, June, 2009.
16. Milovanovic D, Bumbasirevic M, Knezevic O, Mirkov D, Kadija M. Muscle Strength Evaluation at Early Rehabilitation Phase after LCA Reconstruction. Pilot Study. Congress of Macedonian Orthopaedic and Traumatology Association. Ohrid, Macedonia, May 2009.
17. Milanovic I, Radisavljevic-Janic S, Mirkov D. Physical fitness in normal and overweight primary school girls and boys. International scientific symposia: Youth Sport, the heart of Europe. Ljubljana, Slovenia, November 2008.
18. Kukolj M, Mirkov D. Difference between countermovement jump heights with and without arm swing: importance for selection and development in soccer and basketball. 5th International Scientific Conference on Kinesiology, SEP 10-14, 2008 Zagreb, Croatia.
19. Radovanovic S, Dragasevic N, Markovic S, Mirkov D, Petrovic I, Svetel M, Kostic V. Cognitive and motor dual task effect on posture and balance impairment in parkinsons disease patients. 2nd International Congress on Gait and Mental Function, Amsterdam, 1-3 February 2008
20. 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, Yavaskyla, Finland, 2007.
21. 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, Yavaskyla, Finland, 2007.
22. Mirkov DM. Nedeljkovic A, Jaric S. Evaluation of soccer-specific field tests. 5th World Congress of Biomechanics, Munich, Germany, 2006.
23. Nedeljkovic A, Mirkov DM,Kukolj M, UgarkovicU, Jaric S. Effect of maturation on the relationship between physical performance and body size. 5th World Congress of Biomechanics, Munich, Germany, 2006.
24. Jaric S, Markovic G, Mirkov DM, Exercise performance in humans: Role of body size, 4TH INTERNATIONAL SCIENFIFIC CONFERENCE ON KINESIOLOGY, PROCEEDINGS BOOK - SCIENCE AND PROFESSION - CHALLENGE FOR THE FUTURE : 368-371, 2005
25. Nedeljkovic A, Suzovic D, Mirkov DM.: A comparison of the effects of two different drop jump training method modalities on jumping performance and muscle strength. Abstract Book. 10th anual. Congress of the European College of Sport Science. Belgrade, Serbia and Montenegro, July 2005
26. 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.
27. 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.
28. 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, Caen, France August 20-23, 2003

CONFERENCE PAPERS (National)

1. Mirkov D. Standardne dinamometrijske metode u proceni neuromišićne funkcije. 9. Kongres kliničke neurofiziologije sa međunarodnim učešćem, Beograd, Srbija, 15-17.10.2009.
2. Kadija M, Milovanović D, Knezević O, Mirkov D, Bumbaširević M. Razlike između dve hirurške tehnike u ranoj fazi rehabilitacije nakon rekonstrukcije LCA. I kongres srpske traumatološke asocijacije – STA 2009 sa međunarodnim učešćem, Subotica, Srbija, 23-26.09.2009.
3. Kukolj, M., Ugarković, D., Mirkov, D. Razvojne karakteristike fudbalera. Analitika i dijagnostika fizičke aktivnosti. Naučni skup Fakulteta sporta i fizičkog vaspitanja, Beograd, Srbija, Decembar 2007.
4. Mirkov DM, Nedeljković A. Osetljivost testova za procenu mišićne jačine i brzine razvoja sile na promene izazvane treningom jačine. Zbornik sažetaka Prvog srpskog kongresa sportskih nauka i medicine sporta, Beograd, 52.

TEACHING ACTIVITIES

Teaching activities involve:

- Planning, preparing and teaching courses on all academic levels
- Assessing, recording and reporting students' academic achievement.
- Organizing, coordinating and supervising research activities of graduate students.

COURSES

NUMBER	NAME	DEGREE
ДРЕО2	Statistics in Physical Education and Sport	Doctoral
ДРЕИ1	Biomechanics	Doctoral
ДА1О02	Information Systems in Physical Education and Sport	Master
ОА4О33	Introduction in Research Methods	Bachelor
ОА1И02	Information Technology	Bachelor
MA-BMB-02	Biomechanics 1	Master (JLU Giessen)
MA-BMB-06	Advanced Biomechanics	Master (JLU Giessen)
MA-BMB-03	Introduction in Measurement Technology for Movement Analysis	Master (JLU Giessen)
	Diagnostics in Sports Physical Therapy and Rehabilitation	

COURSE ORGANISATION

For all courses I have designed SUBJECT WEB PAGE, where all necessary information (Syllabus; Lectures; Weekly activities; Test Dates; Grading; Homework; Additional Course work material; Exercises with solutions) are posted. The web page is being updated on the weekly basis.

https://sites.google.com/site/merenjeievalucijaufvisportu/
https://sites.google.com/site/statistikafvsport/
http://www.fsfv.bg.ac.rs/~metodologija/index.htm
https://sites.google.com/site/isusportu/
http://www.fsfv.bg.ac.rs/~informatika/index.htm

GRADUATE STUDENTS ON SUPERVISION

1. Majstorovic Nikola (PhD program of Faculty of Sport and Physical Education, University of Belgrade)
2. Dakic Milos (PhD program of Faculty of Sport and Physical Education, University of Belgrade)
3. Petronijevic Milan (PhD program of Faculty of Sport and Physical Education, University of Belgrade)
4. Cvetić Danilo (PhD program of Faculty of Sport and Physical Education, University of Belgrade)
5. Sanja Krcunovic (Danilo (PhD program of School of Medicine, University of Belgrade)

Ph.D. STUDENTS SUPERVISED

1. Prebeg Goran (Co-upervisor PhD program of Faculty of Sport and Physical Education, University of Belgrade, thesis defended in 2015)
2. Markovic Srdjan (Supervisor PhD program of Faculty of Sport and Physical Education, University of Belgrade, thesis defended in 2015)
3. Cvita Gregov (Co-supervisor, PhD program of School of Kinesiology, University of Zagreb, thesis defended in 2014)
4. Milan Jelic (Co-supervisor, PhD program of Faculty of Sport and Physical Education, University of Belgrade, , thesis defended in 2013)
5. Olivera Knezevic, PhD program of Faculty of Sport and Physical Education, University of Belgrade, thesis defended in 2013)
6. Aleksandar Nedeljkovic (co-supervisor, PhD program of Faculty of Sport and Physical Education, University of Belgrade, thesis defended in 2008)
7. Suzovic Dejan (co-supervisor, PhD program of Faculty of Sport and Physical Education, University of Belgrade, thesis defended in 2009)

MASTER STUDENTS SUPERVISED

1. Sasa Kostic (MS program of Faculty of Sport and Physical Education, University of Belgrade, thesis defended in 2008)
2. Dragan Banicevic (MS program of Faculty Sport and Physical Education, University of Belgrade, thesis defended in 2009)

RESEARCH PROJECTS

CURRENT AND RECENT GRANTS

2018-2019 P.I.
Effects of accelerated growth in children and of ageing in elderly on kinesthetic sense - the importance for functional movement. International Bilateral Cooperation (Slovenia-Serbia), EUR 5000 (direct costs)

2012-2016 P.I.
Development of national physical fitness test battery for elementary schoolchildren. Institute for Education Quality and Evaluation, Belgrade, SERBIA, EUR 15000 (direct costs)

2010-2011 P.I.
Muscular power in resistances exercise under unstable conditions. International Bilateral Cooperation (Slovakia-Serbia), EUR 5000 (direct costs)

2011-2016 Co.I.
Neural and muscular factors and their adaptive changes in human locomotion. (#175037). Serbian Research Foundation, EUR 150 000 (direct costs), (P.I. Aleksandar Nedeljkovic)

2011-2016 Co.I.
Noninvasive modulation of the cortical excitability and plasticity: Development of methods for noninvasive neuromodulation of the Central Nervous System in examination of physiological mechanisms, diagnostics and therapy. (#175012). Serbian Scientific Fund, EUR 250 000 (direct costs), (P.I. Sasa Filipovic)

2006-2010 Co.I.
Evaluation of methods for assessment of the role of muscular and neural factors and their adaptive changes in human locomotion (#145 082). Serbian Research Foundation, EUR 110 000 (direct costs), (P.I. Slobodan Jaric)

2002-2005 Co.I.
Role of central and peripheral factors in kinematics of voluntary movements (#1758). Serbian Research Foundation, EUR 70 000(direct costs), (P.I. Slobodan Jaric)

SCIENTIFIC COOPERATION:

2010-pressent Evaluation of novel tests of neuromuscular function, College of Health Sciences University of Delaware, (R21AR06065), NIH – NIAMS, $420,000 (direct costs), (P.I. Slobodan Jaric)

2010-present Development of Specific Field Tests in Kinesiology. School of Kinesiology, University of Split, Croatian Scientific Fund (P.I. Damir Sekulic)

2012-present Development and Evaluation of Handball Specific Jump Tests. Department of Sports Science, Justus Liebig University Gießen Funded by German National Institute of Sports (P.I. Hermann Müller)

FUTURE RESEARCH ACTIVITIES

The projects listed below are planned in accordance to ongoing research activities and interests. One part is directed to the major research line (Central and peripheral factors of neuromuscular function) where one of the aims is to establish reliable, cost-effective and user friendly framework in diagnostic of muscle function, both in sport and clinical settings. In addition to the basic research direction, an important part presents the further evaluation of the general and specific diagnostic methods in sport, with emphasize on risk injury management and improvement of specific skills and abilities. The third research direction is aimed to promote the importance of assessment of health related physical fitness in schoolchildren: In the moment we are analyzing data derived from a national cross-sectional school-based study that evaluated physical activity, physical fitness, and overweight/obesity prevalence. The aim of this study is to provide normative values for the selected tests, as a first step in creating National Database and Central Information system. The system should provide an easy way for physical education teachers to report children and their parents on children's fitness levels

RESEARCH PROPOSAL NAME	CO-RESEARCHERS	PLACE
Assessment of neuromuscular function after total knee arthroplasty	Olivera Knezevic, Institute for Medical Research Serbia and Marko Kadija, Institute for Orthopaedic Surgery and Traumatology, Clinical Centre of Serbia	Research Center, Faculty of Sport and Physical Education, and Institute for Orthopaedic Surgery and Traumatology Belgrade
Isometric trunk muscle endurance tests in low back pain - risk assessment	Olivera Knezevic, Institute for Medical Research, Serbia	Research Center, Faculty of Sport and Physical Education and Institute for Neurology, Medical School, University of Belgrade
Establishment of national physical fitness standards for elementary schoolchildren	Snezana Radisavljevic-Janic and Ivana Milanovic, Faculty of Sport and Physical Education, University of Belgrade	Research Center, Faculty of Sport and Physical Education
Development of the composite handball performance specific test: Relationship among precision, throwing velocity and jumping ability in handball	Milan Petronijevic and Olivera Knezevic, Faculty of Sport and Physical Education, University of Belgrade and Roland van den Tillaar, from The Research Centre of Sports Sciences, Health and Human Development – CIDESD; Sogn og Fjordane, University College, Norway	The Research Centre of Sports Sciences, Health and Human Development – CIDESD; Sogn og Fjordane University College, Norway and Research Center
Evaluation of contractile muscle properties: Methodological considerations	Hermann Müller, Heiko Maurer, Lisa Maurer; Department of Sports Science, Justus Liebig University Gießen and Olivera Knezevic, Institute for Medical Research, Belgrade.	Department of Sports Science, Justus Liebig University Gießen and Research Center, Faculty of Sport and Physical Education

Exploring the potential of smartphone accelerometers for performance diagnostics in sports	In cooperation with Hermann Müller and Katja Ferger; Department of Sports Science, Justus Liebig University Gießen Funded by German National Institute of Sports (P.I. Hermann Müller)	Department of Sports Science, Justus Liebig University Gießen and Research Center, Faculty of Sport and Physical Education