## 2011 SCIENTIFIC CONGRESS ON MARTIAL ARTS AND COMBAT SPORTS Viseu – Portugal

13th - 15th May 2011

## **PROCEEDINGS**

### **Scientific Editors**

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Viseu 2011

## 2011 SCIENTIFIC CONGRESS ON MARTIAL ARTS AND COMBAT SPORTS

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#### **Objectives**

- To gather researchers to promote debate around the study object of the contexts of 'martial arts', 'combat sports' or 'self-defence': combat human motricity:
- 2. To reflect on on-going national and foreign research work;
- 3. To promote the dissemination of projects in the fields concerned;
- 4. To call the attention to the need of developing different scientific approaches.

#### **Main Target Groups**

Researchers in the field of martial arts/combat sports (MA&CS); Teaching and training participants in the area of MA&CS; Higher education students and advanced level practitioners; Heads of Organisations promoting MA&CS.

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POLYTECHNIC INSTITUTE OF VISEU

MAIN AUDITORIUM

#### CONGRESS PROGRAM INTRODUCTION

The Congress will be divided into two main blocks: (1) global approach (2) multidimensional.

The global approach on the first day will mainly focus on three areas:

- a) MA&CS object of study, systematic, institutions and research;
- b) Instructors and Coach Education processes in MA&CS;
- c) Pedagogy and Didactical knowledge.

The multidimensional block will be based on the analysis of martial arts and combat sports according to five dimensions:

- i) Physical dimension physiological conditioning factors in physical training;
- ii) Technical dimension biomechanical conditioning factors in technical training;
- iii) Tactical dimension -bioinformational conditioning factors in tactical training;
- iv) Psychological dimension affective and emotional conditioning factors in psychological training;
- v) Socio-cultural and philosophical dimension conditioning factors of norms, values and symbols.

### **CONTENTS**

ÉDITORIAL
Andreto, Leonardo Vidal <sup>a,b</sup> ; Esteves, João Victor Del Conti <sup>a</sup> ; Branco, Braulio Henrique Magnani <sup>a</sup> ; Romero, Paulo Vitor da Silva <sup>a</sup> ; Gomes, Tricy Lopes de Moraes <sup>a</sup> ; Pastório, Juliana Jacques <sup>a</sup> ; Pastório, Eloa Jacques <sup>a</sup> ; Silva, Danilo Fernandes da <sup>a</sup> ; Babata, Lucas Kazunori Rubira <sup>a</sup> ; Moraes, Solange Marta Franzoi de <sup>a</sup> ; Machado, Fabiana Andrade <sup>a</sup> ; Franchini, Emerson <sup>a,b</sup>
Antunes Barreira, Cristiano Roque
Araújo, Paulo Coêlho de; Jaqueira, Ana Rosa F
Avakian, Paula; Souto Morine, Diego; Franchini, Emerson
Bastida, Ana Isabel; Ros, Concepción; Ruiz, Laura
Brito, António Vences; Ferreira, Mário Rodrigues
Cabrita, Túlia; Rosado, António; Sousa, Paulo; Martins, Paulo25 ATHLETIC IDENTITY IN COMBAT SPORTS
Campos, Fábio Angioluci Diniz <sup>1</sup> ; Rabelo, Felipe Nunes <sup>2</sup> ; Pasquarelli, Bruno Natale <sup>2</sup> ; Franchini, Emerson <sup>1</sup>
Cynarski, Wojciech J
EI Ashker, Said
Epron, Aurélie
Escobar, R <sup>1</sup> ; Carratalá, V <sup>2</sup> ; Barranco-Ruíz, Y <sup>3</sup> ; Rosillo, S <sup>3</sup> ; Ábalos, R <sup>1</sup> ; Gutiérrez-García, C <sup>4</sup> ; Huertas, JR <sup>3</sup>

Escobar, R <sup>1</sup> ;	Rodríguez	:-Ruíz, S <sup>2</sup> ;	Carratalá	i, V³; Ába	los, R¹;	García-
Moraleda, M <sup>4</sup> PREDISPOSI JUDOITS	NG FACTO	RS TO INJU	JRY AND I	TS SEVERIT	Y IN ELIT	34 E
Falcó, Coral; I			co, Sara;			
THE ROUND	HOUSE KICH	K IN FUNCTI	ON OF THE	TWO TARGE	T LEVEL	36
Figueiredo, Abo LEARNING O SPORTS COA	UTCOMES	FRAMEWOR	K ON MART	TAL ARTS AN	ID COMBA	39 T
Franchini, Eme JUDO OLYMF	rson; Yuri PIC ATHLET	<b>Takito, Mo</b> ES AND THE	nica IR TRAININ	G ROUTINES		42
Gomes, Mariai José J.G. <sup>1</sup>	na S.P. <sup>1,2</sup> ;	Morato, N	lárcio P. <sup>1</sup> ;	Terrisse,	André <sup>2</sup> ; A	Imeida;
TECHNICAL TEACHING: II	AND TAC MPLICATION	CTICAL RE NS IN SPOR	LATIONS FIVE INITIAT	IN COMBAT TON	r sport	S
González de Pr INFLUENCE COMPETITIO	OF EN	VIRONMENT	AL FACT	<b>uera Argila</b> ORS IN	ga, MT² TOP-LEVE	46 L
González de Pr TACTICAL MO A DESCRIPTI	OVES IN TO	<b>lesias i Re</b> P-LEVEL CC	ig, X <sup>1</sup> ; Ang MPETITION	u <b>era Argila</b> TAEKWOND	ga, MT <sup>2</sup> O COMBAT	<b>48</b> Г:
Green, Thomas VERNACULA						50
Guodong, Zhar THE MASTER VERNACULA	R AND APP	RENTICE AF	PPROACH E	DUCATION I	N CHINES	5 <b>2</b> E
Gutiérrez-Garc BIBLIOMETRI MARTIAL AR SCIENCE DA	C ANALYS	SIS OF TH COMBAT SP	E SCIENTI PORT ARTIC	FIC PRODU	CTION OI E WEB O	N
Jaqueira, A.R.F PRAXEOLOG OF CAPOEIR	ICAL ANAL	P. C YSIS OF TH	E FIRST SF	ORTING RE	GULATION	<b>56</b> S
Lafuente, Jorgo IMPORTANCI MARTIAL AR	ΓS					
Lima, Evandro IDENTIFICAT FIGHT PRAC	ION OF TH TITIONERS	IE SOCIAL IN THE CITIE	CHARACTE S OF COIM	RISTICS OF BRA AND AV	CAPOEIR. EIRO	A
Louro, Abel <sup>1,2</sup> ; THE EFFECT AFTER PREG	S OF DETE	Luis <sup>1,2</sup> RAINING AN	D TRAINING	ON AN ELI	TE JUDOK	<b>62</b> A
Margnes, Eric TEACHING S	ELF-REGUL	ATION THRO	DUGH MART	TAL ARTS		66
Martins, Paulo;	Rosado,	António; Fe	erreira, Víto	r; Gomes, F	Ricardo	67

COMBAT SPORTS AND DETERMINANTS OF SPORT ENGAGEMENT IN PORTUGUESE ATHLETES
Miarka, Bianca <sup>1</sup> ; Campos, Fabio <sup>1</sup> ; Julio, Úrsula F. <sup>1</sup> ; Nunes, Alexandre Velly <sup>1</sup> ; Calmet, Michel <sup>2</sup> ; Franchini, Emerson <sup>1</sup> 69 A COMPARISON OF EFFORT AND PAUSE IN JUDO MATCHES
Moghaddam, A <sup>1</sup> . Rashidlamir, A <sup>2</sup> . Fahim Devin, H <sup>3</sup> . Amani, G <sup>4</sup> 71 THE COMPARISON OF MENTAL SKILLS PROFILE OF YOUNG IRANIAN ELITE WRESTLERS IN VARIOUS WEIGHT CLASSES
Monteiro, Luís <sup>1</sup> ; Chambel, Luís <sup>2</sup> ; Cardoso, Margarida <sup>3</sup>
Monteiro, Luís <sup>1,2</sup> ; García García, José Manuel <sup>3</sup> ; Carratala, Vicent <sup>4</sup> 77  THE BALANCE AND THE RATIO OF PULLING-REAPING-PUSHING IN ELITE JUDOKAS
Nejedlá, Lenka; Reguli, Zdenko; Vít, Michal; Čihounková, Jitka; Mlejnková
Lucie82  WHAT IS IN THEIR MIND: ANALYSIS OF VARIOUS MARTIAL ARTIST  GROUPS
Patatas, Jacqueline Martins <sup>1</sup> ; Gomes, Mariana Simões Pimentel <sup>1</sup> ; Almeida, José Júlio Gavião de <sup>1</sup>
Pérez-Gutiérrez, Mikel; Gutiérrez-García, Carlos; Calderón-Tuero, Pablo.86 PREFERRED TERMINOLOGY FOR IMPROVING PUBLICATION VISIBILITY OF MARTIAL ARTS & COMBAT SPORTS SCIENTIFIC LITERATURE
Pieter, Willy <sup>1</sup> ; Bercades, Luigi T <sup>2</sup> 88 ISOKINETIC KNEE AND HIP STRENGTH IN YOUNG TAEKWONDO-IN
Preto, Luís Franco
Raimondo, Sergio; Di Matteo, Marco; Carlomusto, Elisabetta; D'Aguanno,
Simona
Reguli, Zdenko; Jalovega, Michal; Vít, Michal; Čihounková, Jitka97 RITUALISM IN THE MICROCOSM OF AIKIDO DOJO
Reis, André Luiz Teixeira99  LIVED EXPERIENCE OF CAPOEIRA – A BRAZILIAN MARTIAL ART –  TROUGH VAN MANEN'S PHENOMENOLOGY OF BODY, TIME, SPACE  AND HUMAN RELATION
Rosa, Bruno Avelar <sup>1</sup> ; Figueiredo, Abel <sup>2</sup> 101 GLOBAL FIGHTING KNOWLEDGE – CHARACTERIZATION AND DEVELOPMENT
Rosa Vítor 104

O DESENVOLVIMENTO DO KARATÉ NO CONTEXTO DAS ARTES MARCIAIS E DOS DESPORTOS DE COMBATE. ANÁLISE SOCIOLÓGICA SOBRE OS ASPECTOS SOCIOCULTURAIS E OS ENVOLVIMENTOS SOCIAIS DOS KARATECAS PORTUGUESES	
Ruivo, R.; Pezarat-Correia, P.; Carita, A. I	.105
San Juan, Reylin <sup>1</sup> ; Callanta, Hercules <sup>1</sup> ; Pieter, Willy <sup>2</sup> COMPETITION INJURIES IN YOUNG JUDOKA	.107
Sánchez García, RaúlCOMBAT SPORTS/MARTIAL ARTS AND CIVILIZING PROCESSES	.109
Sánchez García, Raúl  TACTICAL DIMENSIONS OF KATA: DEVELOPING MOTOR INTELLIGENCE IN AIKIDO	
Santos, Gilbert de Oliveira dos <sup>1</sup> ; Gomes, Mariana S.P. <sup>2,3</sup>	.113
Santos, Jonatas Ferreira da Silva; Takito, Monica Yuri; Franchini, Eme	
FREQUENCY AND TYPE OF TECHNIQUES USED BY FEMALE ATHLETES COMPETING IN TAEKWONDO DURING THE PAN AMERICAN GAMES' 2007	. 1 13
Santos, M.; Silva, J.; Rocha, M EFFECT OF WUSHU (KUNG FU) TRAINING ON MANUAL DEXTERITY	.117
Senna,V; Freitas, B; Padilha, A., Cardoso, F  THE HEMISPHERIC PREFERENCE RELATIONSHIP WITH THE MOTOR COORDINATION IN MMA ATHLETES	.118
Silva, Gil <sup>1,3</sup> ; Cunha, Leonardo <sup>2,3</sup> ; Perdigão, Tatiana <sup>1</sup> ; Brito, João <sup>1</sup> PHYSIOLOGICAL AND ANTHROPOMETRIC PROFILE OF PORTUGUESE PROFESSIONALKICKBOXERS	.120
Silva, Gil <sup>1,3</sup> ; Perdigão, Tatiana <sup>1</sup> ; Cunha, Leonardo <sup>2,3</sup> SOCIAL INTERVENTION OF THE KICKBOXING COACH	
Souza, Juliana Cristiane de <sup>1</sup> ; Barreira, Cristiano Roque Antunes <sup>2</sup> RELATIONAL ASPECTS BETWEEN MARTIAL ARTS AND FELDENKRAIS AWARENESS THROUGH MOVEMENT	.124
Svinth, Joseph RCREATING A TYPOLOGICAL FRAMEWORK FOR MARTIAL ARTS	.126
Sue, Sili; Chi, Cheong Kin; HO, Walter King Yan HOLISTIC DEVELOPMENT OF YOUNG ATHLETES IN WRESTLING	.127
Tumová, Veronika; Reguli, Zdenko NOT ONLY DANCING: LIFESTYLE AND CULTURE IN THE PHENOMENON OF STREETDANCE BATTLE	.128
Urbinati, Keith Sato <sup>1</sup> ; Emerick, Rogério <sup>2</sup> ; Pereira, Rodolfo Laurent Ribas, Marcelo Romanovitch <sup>2</sup> ; Bassan, Júlio César <sup>3</sup> ; Franchini, Emer	son1
	.130

	NTHROPOMETRIC PERIODIZED STRENG			 	ТО	
C	ra, <b>Miguel<sup>1</sup>; Lopes,</b> COMBAT SPORTS IN AUTONOMOUS REGIO	N SCHOO	LS: AN E			132
Ē	<b>Michal; Reguli, Zde</b> EVALUATION OF LEA AT HIGH SCHOOLS					133
	, <b>Li; Guodong, Zha</b> THE VALUE ORIENTA				<i>*</i>	135
А	oxi, Dong STUDY OF MART COMPETITION					137
C	<b>ha, Leonardo <sup>1,3</sup>; S</b> CHALLENGE - A KICKBOXING ORGA	CASE	STUDY			137

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# PREFERRED TERMINOLOGY FOR IMPROVING PUBLICATION VISIBILITY OF MARTIAL ARTS & COMBAT SPORTS SCIENTIFIC LITERATURE

#### Introduction and objectives

Martial arts and combat sports (MA&CS) terminology is very diverse and heterogeneous due to the amount of different styles, schools and martial practices or sports that exist all around the world. Research visibility and information retrieval are limited by these causes. The aim of this study is to point out the different terms related to the widespread martial arts included in the scientific literature. From this basis, a set of recommendations for authors, reviewers and journals publishing MA&CS works are offered for improving publication visibility.

#### Methodology

Based on some specific works about MA&CS terminology, a group of 278 searching terms was made up, including the several terms related to different martial arts (e.g., judo, karate, taekwondo) as well as to the varied names taken by a martial art (e.g., tai chi, taichi, tai ji, taiji, taijiquan, etc.). Terms were entered individually in the "*Topic*" search field of SCI-EXPANDED, SSCI, A&HCI databases from Web of Science (WOS) for data mining. Our research was limited to article or review documents published from 2000 to 2009.

Searching history was saved in *My Saved Searches* option for future retrieval while obtained data referred to each term was filtered manually and exported to SPSS program (v. 19) for statistical analysis. Total and relevant references were registered for obtaining the relevance and informational noise from each search. A descriptive analysis of the data was done.

#### Results and discussion

55.4% of the terms were not used by the authors, since they refer to MA&CS papers that have not been indexed in the studied databases yet (e.g. aikijutsu) or to MA&CS terms that have not been utilized (e.g. kenpo). On the other hand, 44.6% of the terms retrieved some article or review document, which indicates a research focus on certain MA&CS. Specific terminology is quite standardized, although there are some MA&CS with a variety of different names in the published works. Generally, a preferred and most common term is used by authors when a martial art can be referred by different names, so future studies should introduce it for getting a wider publication visibility.

On the other hand, terms related to unknown or new MA&CS (e.g. mukumbusu) do not retrieve too many documents, so it is recommended to use a broader term (e.g., martial arts) in the usual indexing fields (title, abstract, keywords) so users can easily retrieve those documents in the future.

Also, several terms (e.g. sumo) produced an excessive informational noise due to their polysemy and usual appearance in others fields of study. Including or specifying broader terms should go with them as well.

WOS database production and its rules for searching slow down the retrieval and extraction of relevant information about each MA&CS in some cases, therefore WOS users, or in general from any other database, should know the rules for searching and truncation, boolean operators and wildcard characters utilization, and features of that databases for optimized their searches and avoiding the informational noise.

#### Conclusion

Preferred terms from each MA&CS as well as broader terms in relation to the topic of the research should be included in the title, keywords or abstract of the studies for obtaining a higher publication visibility and facilitating researchers the information retrieval in this field of study, even though most appropriate terminology considered by the authors would be also used in their papers.

#### References

- Brakel, J.J. (1987). *Thesaurus of martial arts*. International bulletin of sports information, vol. 8, no. 3/4, pp. 1-25.
- Green, T.A. and Svinth, J.R. [eds.] (2010). *Martial Arts of the WORLD. An Encyclopedia of History and Innovation*. Santa Barbara (CA): ABC-CLIO.
- Moreiro González, J.A. (2004). El contenido de los documentos textuales: su análisis y representación mediante el lenguaje natural. Gijón: TREA.
- Pérez M. & Gutiérrez C. (2008). 100 años de artes marciales: repertorio bibliográfico de monografías publicadas en España (1906-2006) [100 years of martial arts: bibliography of monographs published in Spain (1906-2006)]. León: Universidad de León.
- Thomson Reuters (2009). Web of Science v 8.0 Workbook. Retrieved on March 8. 2011 from
  - http://science.thomsonreuters.com/m/pdfs/wos\_workbook\_en.pdf.