

**Media, Culture and Public Relations, 6, 2015,1, 7-16**

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*Language –of text:* Croat. – *of Summary:* Croat.,Engl.  
*References:* 0 *Tables:* 5 *Figures:* 6  
*Category:* Original Scientific Paper  
*Title:* MULTIGRAM AS AN INSTRUMENT OF COLLECTING  
 EMPIRICAL DATA FOR SCIENTIFIC REASONING WITH  
 SCALING TECHNIQUE  
*Author(s):* Slavo Kukić, Siniša Rudelj  
*Affiliation:* Faculty of Economics, University of Mostar, Mostar,  
 Bosnia and Herzegovina  
*Key words:* multigram, scales, Likert scale  
*Abstract:* In the paper autors are developing the multigram  
 concept - the new complex instrument for collecting empirical  
 data for scientific generalization. The essence of it is in  
 advantages that it has in regard to existing type of scale.  
 Advantages are: reduced size and scope of the test instrument,  
 reduced resistance of subjects participation and reduced amount  
 of time for processing average respondent. Multigram concept  
 results in increased objectivity and increased heuristic of the  
 instruments for empirical data collecting.

**Media, Culture and Public Relations, 6, 2015,1, 17-31**

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*Other indetification:* INFO-80 *Issue No:* 1  
*Received:* 2015-02-12  
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*Page numbers:* 17-31  
*Language –of text:* Croat. – *of Summary:* Croat.,Engl.  
*References:* 38 *Tables:* 7 *Figures:* 0  
*Category:* Original Scientific Paper  
*Title:* COMMUNICATION FACTORS OF CYCLING TRAFFIC  
 IN ZAGREB AND ITS SURROUNDING  
*Author(s):* Joško Sindik  
*Affiliation:* Institute of Anthropology, Zagreb, Croatia  
*Key words:* part of the city, social action, city administration, use  
 of bicycles, traffic system, relief, security, Zagreb  
*Abstract:* The aim of this study was to determine differences in  
 the underlying factors of the bicycle traffic in Zagreb, according  
 to the place of residence. The study included over 3,000  
 participants frequently included in urban bicycle traffic, using  
 the conveniently assembled questionnaire. The results showed  
 that among all of the factors that have an influence on cycle  
 traffic, the existence of road cycling conditions particularly  
 affects on the frequency of cycling. Among the barriers that have  
 as influence on the frequency of bicycle traffic, the relief of each  
 part of the city and the distance to the destination stand out as  
 the most important. The best road conditions lay down in the  
 center of Zagreb, where the cycle is used more often and for  
 different purposes, while in rural areas, the cycle is more often  
 used for the purpose of sport and recreation. An important  
 factor for less frequent and less secure cycle criving in the  
 northern part of the city can be hilly terrain (relief), while the  
 distance from the city center, have an influence on selecting the  
 type of means of transport. To improve the conditions of bicycle

traffic, the most interested are those who live in the center and  
 eastern part of the city. Results provide guidance for local  
 authorities, but also for the cyclists, to improve the conditions  
 for safer and more often bicycle circulation in the City of Zagreb  
 and its surroundings.

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*Page numbers:* 32-35  
*Language –of text:* Croat. – *of Summary:* Croat.,Engl.  
*References:* 7 *Tables:* 0 *Figures:* 3  
*Category:* Preliminary Communication  
*Title:* COMMUNICATION SKILLS OF PRIMARY SCHOOL  
 PUPILS IN THE SCOPE OF GENERAL TECHNICAL AND  
 INFORMATION TECHNOLOGY CONCEPTS  
*Author(s):* Waldemar Lib  
*Affiliation:* Faculty of Pedagogy, University of Rzeszów, Rzeszów,  
 Poland  
*Key words:* communication skills, cultural transformations,  
 elementary school students  
*Abstract:* Problem of communication skills is extremely  
 important in the context of current social and cultural  
 transformations. The very definition of communicative  
 competence is difficult and ambiguous. Most often, however, it  
 is identified with the skills to adapt verbal and non-verbal  
 language to the ability of the recipient. The article focuses on  
 communication competence of elementary school students skills  
 related to the use of verbal discourse using general, technical  
 and information technology concepts.

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*Received:* 2015-12-01  
*Published:* 2015-03-13  
*Page numbers:* 36-43  
*Language –of text:* Croat. – *of Summary:* Croat.,Engl.  
*References:* 10 *Tables:* 0 *Figures:* 0  
*Category:* Authors Review  
*Title:* MORALITY RENEWAL AS CORRECTIVE COMPONENT  
 OF SOCIETY  
*Author(s):* Zdravko Šorđan  
*Affiliation:* Theology Institute, Beograd, Srbija  
*Key words:* morality, ethics, freedom, Christianity, brotherhood,  
 spiritual strength  
*Abstract:* It is not always easy or simple to define man's multi-  
 layered nature. It is connected with true changes in the human  
 spirit, since a real and genuine turn is, indeed, internal by  
 nature, and implies a spiritual transformation, a mental  
 reconstruction, where the morality becomes a corrective  
 component of an individual and society as a whole, with a view  
 to present the spiritual side, not the sensual side. To a certain  
 extent, it neglects the external side of the natural greatness, and  
 is directed toward the spiritual sense. Spirituality is not an action  
 working only from the outside, it is a force that reveals the  
 divine in the man, because it is not only about that the necessity

to modify some structures of society, but to modify individual views of the world and outlook upon life. In order to be in position to recommend a new behavioural pattern, it is necessary to bring order into our own lives. Not everything that is feasible scientifically is, at the same time, justifiable morally – an almost unbridgeable gap has opened up between technological advancement and humaneness. The intention of morality lies in the tendency to emphasize those spiritual values; in the best possible scenario, it expresses a higher interest and sensitivity for flickers of the human soul, and thus boils down to the desire to present spirituality, and not sensuality. In the hierarchy of human needs, biological needs cannot rank higher than those spiritual ones that belong to the generic human essence, since they add to its development. If we rely only on the sensual side, we will hear dissonant sobbing, as an attempt to compensate for lost moral values. Without morality, the world is superficial, and the man is not capable of spiritual ascent; without morality, everything is devoid of sense - everything is absurd.

Higher goals of life are not and cannot be only economic and social, but spiritual as well. The greatness of a nation and individuals is not measured only against material criteria and a developed mind, yet a withered soul, but also against moral values.

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*Page numbers:* 44-55  
*Language –of text:* Croat. *– of Summary:* Croat.,Engl.  
*References:* 7 *Tables:* 0 *Figures:* 9  
*Category:* Authors Review

*Title:* IMPACT MULTIMEDIA THROUGH VIRTUAL REALITY TECHNOLOGY ON COMMUNICATIONS

*Author(s):* Jacinta Grbavac, Vitomir Grbavac

*Affiliation:* Croatian Communication Association, Zagreb, Croatia

*Key words:* multimedia, virtual reality technology, videoconferencing technology, videophones technology, telerobotics technology

*Abstract:* This paper describes the impact of multimedia mediated virtual reality technology to communication. Technology of virtual reality are a set of technologies that enables conversations between people who are physically dislocated. The goal of this technology is to enable conversation between people who are located in different geographic areas of the world and are related to business, family or friendly relations. In fact the term "technology of virtual reality" in this paper meant as a set of technologies for videoconferencing technology, videophones and telerobotics, which perform communication via a virtual incarnation or holograms. Technology of virtual reality provide an inexpensive and fast way to communicate regardless of geographical distance.

With the point of communication view only teleconference made great progress in terms of maintaining the quality and continuous communication that is easy to set up, but is almost completely eliminated access "face to face", which can be considered one of the "deficiencies" in their application.

#### Media, Culture and Public Relations, 6, 2015,1, 56-62

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*Page numbers:* 56-62  
*Language –of text:* Engl. *– of Summary:* Croat.,Engl.  
*References:* 17 *Tables:* 0 *Figures:* 0  
*Category:* Authors Review

*Title:* VULNERABILITIES OF NEW TECHNOLOGIES AND THE PROTECTION OF CNI

*Author(s):* Krunoslav Antoliš<sup>1</sup>, Petar Mišević<sup>2</sup>, Ana Miličević

*Affiliation:* Ministry of the Interior of the Republic of Croatia, Police Academy, Police College, Zagreb, Croatia<sup>1</sup>; Zagreb School of Economics and Management<sup>2</sup>, Zagreb, Croatia

*Key words:* Information and communication technology, vulnerability, safety, security, critical infrastructure

*Abstract:* New information technologies are unavoidable factor in modern world as they are changing it both in technological and in communication aspect. Unfortunately, despite the opening of new possibilities, both aspects of changes have brought about vulnerabilities which cannot be ignored. These vulnerabilities directly affect security state in the systems where ICT is becoming dominant information and communication platform. Therefore, critical infrastructure security as the key element of national security today is to a great extent determined by ICT security as its component. Thus, ICT vulnerabilities are directly spread to critical infrastructure in which they are built and whose abuse is only a matter of time. It is not only terrorists who should be regarded as a threat when thinking about critical infrastructure security, but also organized and commercial crime, competitive companies, various hackers, even all those who due to different social and economic reason live on the margins of modern society. Of course, nobody among the mentioned is immune to committing a terrorist act so as preventive measure all of them should be spotted and prevented in accordance with security estimates.

#### Media, Culture and Public Relations, 6, 2015,1, 63-67

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*Received:* 2015-03-05  
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*Page numbers:* 63-67  
*Language –of text:* Engl. *– of Summary:* Croat.,Engl.  
*References:* 4 *Tables:* 0 *Figures:* 1  
*Category:* Authors Review

*Title:* AXIOLOGICAL CATEGORIES FOR DESIGNING THE SYSTEM OF TECHNICAL EDUCATION

*Author(s):* Wojciech Walat

*Affiliation:* Pedagogical Faculty, University of Rzeszow, Rzeszow, Poland

*Key words:* technology education, axiological categories: subjectivity, responsibility, self-realisation, tolerance, moral imagination, creativity

*Abstract:* The article presents a systemic approach to axiological categories in the model creating a coherent and co-existing hierarchy. The proposed solutions constitute a clear indication for seeking criteria of human life quality beyond the categories

which are exclusively economic defining only the state of possessing ("having"), pushing the personal – subjective and autonomous development of a human being to the second place – i.e. "being". The mentioned categories of notions – constituting the basis for developing humanity – are internal dimensions of human ethics. The determinants of human life quality may encompass the axiological categories appearing in psychology, philosophy, sociology as well as in pedagogy, i.a. subjectivity, responsibility, self-realisation, tolerance, moral imagination, creativity.

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*Page numbers:* 68-78  
*Language –of text:* Croat. *– of Summary:* Croat.,Engl.  
*References:* 20 *Tables:* 0 *Figures:* 1  
*Category:* Authors Review  
*Title:* HEALTH AND PHYSICAL ACTIVITY  
 CIVILIZATIONAL NEED OF MODERN MAN  
*Author(s):* Allen Bartoš  
*Affiliation:* Association for Sport and Recreation " Veteran '91 " ,  
 Zagreb, Croatia  
*Key words:* physical activity, health, sport

*Abstract:* This paper focuses on physical activity and health as a civilization need of a modern man. Unfortunately, there are far too many negative perspectives which do not help motivate people to do physical activity. Some people think that physical activity must be connected with achieving vital results on competition. Other thinks that doing physical activity is hard and takes far too much effort and also money and time. All of that is incorrect. There are so many physical activities, so many different activities and some of them are really not hard to do

and also they are very fun. Unfortunately, people also do not understand how many benefits sport does have, for physical and mental health, but also for motivation, socialization and so on. This paper will prove all of the benefits but also potential problems from doing physical activities and hopefully motivate someone.

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*Language –of text:* Croat. *– of Summary:* Croat.,Engl.  
*References:* *Tables:* 0 *Figures:* 1  
*Category:* Professional Paper  
*Title:* TECHNOLOGY OF OZONE APPLICATIONS IN VITAL  
 MEDICAL FIELDS  
*Author(s):* Damir Buković<sup>1</sup>, Dino Buković<sup>2</sup>, Mirsad Sadiković<sup>3</sup>,  
 Rado Žic<sup>4</sup>, Boris Starčević<sup>5</sup>, Jasmina Čatić<sup>5</sup>, Damir Buković jr.  
*Affiliation:* Polyclinic Drinković, Zagreb, Croatia<sup>1</sup>; School of  
 Dental Medicine, Zagreb, Croatia<sup>2</sup>; Viridisfarm d.o.o. <sup>3</sup>, Clinical  
 Medical Centre Dubrava, Zagreb, Croatia<sup>4</sup>, Clinical Medical  
 Centre Dubrava, Zagreb, Croatia<sup>5</sup>  
*Key words:* Ozone, medicine, gynecology, dentistry, oxygenation,  
 injuries, pain

*Abstract:* A large number of disease is primarily due to the lack of oxygen in the tissue due to the accumulation of toxins in the body. Painless and natural treatment with ozone helps with after-operating recovery and cure numerous injuries and illnesses, even tumors, and for now the most commonly used in dentistry. Ozone has a positive effect on wound healing, stimulation of the immune system, oxygenation and blood flow to tissues and to reduce swelling and pain.