





Center for Quality, Faculty of Engineering, University of Kragujevac







3<sup>rd</sup>QO QUALITY RESEARCH

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By providing international platform, 3. International Conference on Zuality of Life 2018 will gather experts from industry and academia in order to exchange ideas and present results of ongoing research in a range of topics.

This Conference has a motto "From quality to happiness".

We invite you to participate in this important event.

Sincerely yours. President of Programme Committee

Prof. dr Slavko Arsovski

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## Content:

1.	<b>Slavko Arsovski</b> QUALITY OF LIFE: AN INTEGRATOR OF
	OLD AND NEW PARADIGMS1-6
2.	<b>Tamara Jakovljevic, Tadeja Jere Jakulin, Gregor Papa</b> THE ROLE OF COLOUR SENSING AND DIGITALIZATION
	ON THE LIFE QUALITY AND HEALTH TOURISM
3.	<b>Aysel İçöz, Bülent Eker</b> ROLE OF ACTIVE, SMART PACKAGING
	IN REDUCTION OF FOOD LOSS
4.	Bülent Eker, Aysel İçöz FOOD PACKAGING WASTES, RENEWABLE PACKAGING
	AND THEIR IMPACT ON LIFE QUALITY
5.	<b>Mustafa Cem Aldag, Bulent Eker</b> WHAT IS QUALITY 4.0 IN THE ERA OF INDUSTRY 4.0?
6.	Bülent Eker, Ayşegül Eker THE IMPACT OF THE USE OF INDUSTRIAL ROBOTS
	ON EFFICIENCY INCREASE
7.	<b>Bülent Eker, Sedat Erdal</b> IMAGE PROCESSING TECHNIQUE IN FABRIC
	DEFECT CONTROL APPLICATIONS ON TEXTILE INDUSTRY
8.	Pooja Choudhary, Amit Gangotia TOURISM DEVELOPMENT, COMMUNITY WELL-BEING
	AND QUALITY OF LIFE: A MEDIATION ANALYSIS
9.	Zorica Lazić, Tijana Cvetić, Miloš Petronijević HOW MUCH QUALITY OF LIFE IS RELATED TO STUDENTS SUCCESS: CASE STUDY
10.	Gamze Acar, Nur Beysen, Bülent Eker HOME-WORK BALANCE/BALANCE
	OF WORK FAMILY
11.	Ayça Tepe, Bülent Eker THE IMPACT OF TECHNOPARKS ON THE ECONOMY
12.	Vasco de Oliveira, Rute Meneses CLINICAL ASPECTS OF QUALITY OF LIFE
	IN TINNITUS PATIENTS
13.	Miladin Stefanović DIGITAL COMPETENCES AND ENTERPRENEUIRAL
	FRAMEWORK IN DEVELOPMENT OF HIGH QUALITY
	COURSES IN HIGHER EDUCATION

14.	Jasna Radulović, Danijela Nikolić, Jasmina Skerlić, Mina Vasković Jovanović ENERGY PAY-BACK TIME AND CO2 EMISSIONS	
	OF PV SYSTEMS	77-84
15.	Tijana Cvetić, Oliver Momčilović, Gordana Nikolić, Slađana Vujičić SYSTEM MODEL OF STUDENT ENGAGEMENT AT WORK DURING MASTER STUDIES	
16.	<b>Miroslav Vulić, Eleonora Desnica, Aleksandar Pavlović</b> USED AUTOMOBILE BATTERIES AS A NEW	
	DEVELOPMENTAL AND ECOLOGICAL CHALLENGE	93-98
17.	Marija Zahar Đorđević, Nikola Komatina, Nemanja Ignjatov ANALYSIS OF STARTUP COMPANIES AND PROJECTS	
	IN THE REPUBLIC OF SERBIA	
18.	Angelina Pavlović, Goran Bošković, Nebojša Jovičić, Snežana Nestić, Nemanja Stanisavljević THE POSSIBILITY OF IMPLEMENTING CIRCULAR ECONOMY IN COMPANIES IN THE REPUBLIC OF SERBIA	105-112
19.	<b>Katarina Stojanović</b> PERCEPTION OF URBAN QUALITY OF LIFE IN A NEIGHBOURHOOD - A CASE STUDY OF NOVI SAD	
20.	Sanja Puzović, Vladan Paunović, Jasmina Vesić Vasović, Zoran Nešić THE INFLUENCE OF THE LEAN IMPLEMENTATION ON WORK ENVIROMENT QUALITY	
21.	Vladan Paunović, Sanja Puzović, Jasmina Vesić Vasović, Zoran Nešić INFLUENCE OF LEAN IMPLEMENTATION ON OUALITY	
	OF BUSINESS OF NON-PROFIT ORGANIZATIONS	
22.	<b>Zoran Antić, Zoran Nešić, Đorđe Mihailović</b> SOME CONSIDERATIONS ON IMPROVING THE	
	QUALITY OF RAILWAY OPERATIONS	
23.	Marija Vuković, Goran Bošković, Nebojša Jovičić, Saša Jovanović TECHNO-ECONOMIC ANALYSIS OF A SOUND ABSORBING	
	BARRIER MADE OF RECYCLED TEXTILE MATERIALS	133-136
24.	Nenad Todić, Slobodan Savić, Dušan Gordić, Snežana Vulović, Vanja Šušteršič MATHEMATICAL MODELING AND EXPERIMENTAL	
	VERIFICATION PARAMETERS VALVE PLATE OF	
	AXIAL PISTON PUMPS OF WATER HYDRAULIC	



25.	Ranka Gojković, Snežana Nestić, Slaviša Moljević, Aleksandar Đorđević, Aleksandar Aleksić
	EDUCATING STUDENTS FROM WBC TO
	IMPROVE ENTREPRENEURIAL COMPETENCIES143-148
26.	Dragan Cvetković, Aleksandar Nešović, Jasmina Skerlić, Danijela Nikolić BUILDING SHADOW IMPACT TO THE
	PRIMARY ENERGY CONSUMPTION149-156
27.	Nikola Komatina, Nikolina Ljepava, Danijela Tadić THE ANALYSIS PROCEDURE AND APPLICATION OF
	MULTICRITERIA DECISION-MAKING METHODS
	IN SELECTION OF INDUSTRY EQUIPMENT157-164
28.	Hrvoje Puškarić, Marija Zahar Đorđević,
	Snežana Nestić, Jelena Jovanović, Danijela Tadić OLIALITY OF PROJECT LIFE CYCLE 165-170
20	Piotr Kafal
<i>47</i> .	OVERQUALITY CONCEPT IN ORGANIZATIONS
30.	Marko Đapan, Ivan Mačužić, Petar Todorović, Marija Savković, Milan Radenković IMPROVING RESEARCHERS' OUALITY OF LIFE
	AND WORK AT UNIVERSITY OF KRAGUJEVAC
31.	Aleksandar Aleksić, Snežana Nestić, Miladin Stefanović ANALYSIS OF THE KEY PERFORMANCE INDICATORS
	IN SERBIAN HIGHER EDUCATION INSTITUTUIONS AND
	PROPOSAL OF THEIR WEIGHTS
32.	Danijela Nikolić, Jasmina Skerlić,
	Dragan Cvetković, Jasna Radulović, Saša Jovanović BASIC PRINCIPLES OF PASSIVE SOLAR HEATING
33.	Biljana Tošić, Jelena Ruso, Jovan Filipović QUALITY MANAGEMENT IN HEALTH CARE: CONCEPTS,
	PRINCIPLES AND STANDARDS
34.	Bojan Stojčetović, Živče Šarkoćević, Dragan Lazarević, Aleksandar Đorđević, Bojan Prlinčević RENEWABLE ENERGY SOURCES FOR IMPROVEMENT
	OF ELECTRICITY QUALITY SUPPLY IN ŠTRPCE MUNICIPALITY201-204
35.	Bojan Stojčetović, Đorđe Nikolić, Živče Šarkoćević, Aleksandar Đorđević, Goran Stojanović
	MEASURES FOR IMPROVING THE QUALITY OF
	ELECTRICITY SUPPLY IN STRPCE

36.	Aleksa Sekulovic, Mladen Djuric, Bojan Labovic				
	SHEDDING LIGHT ON 8D METHODOLOGY:				
	HOW QUALITY EXPERTS SYSTEMIZED KNOW-HOW				
	FOR SOLVING PROBLEMS				
37.	Oliver Momčilović, Dragan Doljanica, Gordana Nikolić				
	HYBRID IPA F-DEMATEL MODEL FOR ANALYSIS				
	OF COMMITMENT, ORGANIZATIONAL LEARNING				
	AND JOB SATISFACTION				
38.	. Miladin Stefanović, Aleksandar Đorđević,				
	Hrvoje Puškarić, Nebojša Abadić				
	IMPROVING QUALITY OF TRAINING BY USING				
	A WEB BASED SYSTEM FOR REMOTE PROGRAMMING				
	OF CNC SIMULATORS				
39.	Jovan Milivojević				
	INFLUENCE OF COSMIC ENVIRONMENT				
	ON HUMAN AND THE ESTABLISHMENT				
	OF NEW DIMENSIONS ON THE QUALITY OF LIFE				
40.	Ljubiša Bojić				
	MASS MEDIA USE AND WELLBEING				
41.	Ljubiša Bojić				
	PERSONAL STANDS AND WELLBEING				

Hrvoje Puškarić<sup>1)</sup> Marija Zahar Đorđević<sup>1)</sup> Snežana Nestić<sup>1)</sup> Jelena Jovanović<sup>2)</sup> Danijela Tadić<sup>1)</sup>

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#### **QUALITY OF PROJECT LIFE CYCLE**

**Abstract:** Project management covers a wide area of industrial engineering and management that continues to raise a lot of open issues. Among other things, significant project management issues are oriented to assess performance or achieve appropriate performance and output quality over the entire life cycle through which the project is underway.

Choosing critical success factors in linking project management performance and project success through different conceptual frameworks sets the focus on important areas and allows project managers to focus on choosing priorities in different elements through project execution and quality assurance. On the other hand, all these factors carry a certain amount of uncertainty that can lead to the peril of the actual realization.

Keywords: Project life-cycle, Project realization, Project success, PMBOK

#### **1. INTRODUCTION**

The period from the idea to the completion of the project realization is called the life cycle of the project. At that time, the project goes through many phases. The stages of project development and improvement should be clearly defined in order to better monitor and manage the project itself ([1-6]).

Each phase is separate from the previous one and has its own defined goals, but very often individual ones overlap depending on the type of project. This is undoubtedly obtained on the complexity of project realization, and the process of project management gets on its complexity.

There are two methodologies for completing the project ([4], [5]), the first is the life cycle of the project, which represents the project phases, which shows what needs to be done in order to complete the project, and the other methodology for project management is the project processes. The project manager can split the project into stages to better control the project and achieve better performance and quality assurance.

A successful project is a project that fulfills all of the objectives set out in the plan ([7], [8]), although the very definition of project success is insufficiently defined ([9-12]). This ambiguity stems partly from the differences in the perspective of viewing, ie, in what is important for different interest groups.

For example, users of a product or service can see the project as successful if all the requirements of functionality are met, and on the other hand if the project organization that is implementing the project itself receives a financial loss that may be considered unsuccessful by the same project.

#### **2. PROJECT LYFECYCLE**

The project life cycle defines the project phases from the start to the end of the project. Using the life cycle principles of the project, it can be easier for the project managers to decide whether to consider the feasibility study at the early stages of a project realization.

Within each category and sub-category of the project, it is necessary to identify the most frequently used models of the life-cycle phases of the project and decision-making points because these phases are the basis for identifying joint management processes within each phase of the life cycle.

Transition from one phase of the project to the other usually involves a certain transfer of technical or other knowledge and confirmation of the end of the previous phase to start the next

3<sup>rd</sup> International Conference on Quality of Life, November 2018



phase (Figure 1). The most frequent outputs of one phase are examined to verify their accuracy and completeness and need to be approved before the next phase begins. They are mostly sequential and receive the main information from the previous stage. The cost and engagement of human resources (Figure 2) are small at the beginning, while the peak of human resource reengineering increases during the middle stages, and rapidly decreases as the project ends.





However, these phases of the life cycle are often very wide and what is needed is to define five to ten basic phases for each category of project, usually with several sub-phases defined within each basic phase, together with an appropriate number of control points.

#### **3. QUALITY SUCCESS FACTORS**

From the perspective of the project management, Critical Factors of Success (CFS) that define quality outputs are characteristics, conditions or variables that can have a

H., Puškarić, M., Zahar Đorđević, S., Nestić, J. Jovanović, D., Tadić

International conference on Quality of Life

significant impact on the success of the project when it is properly maintained or managed ([13], [14]).

Various studies have identified some success factors, but there is a lack of consensus and opinion among researchers on the criteria for evaluating the success of the project and the factors that influence this success ([15], [16]).

In order to correctly identify success factors in project management, the main reasons why projects fail are:

- Projects fail when there is no support or commitment of management at the highest level that should provide supervisory functions to the project team;
- 2) Projects also fail when uncertainty identification and its management is ignored. In the work of previously quoted authors who deal with uncertainty assessments in project management, it has been established fact that need for an appropriate uncertainty assessment is a prerequisite for reducing the chance of a negative event in order to reduce the extent of such an impact if it occurs. Uncertainty goes through each phase of project management, and a good management plan helps mitigate adverse effects;
- 3) The poorly defined scope of the project leads to failure because this is a technical description of the work being done and which covers major issues such as development, quality assurance and maintenance. If the scope of the project itself is not assessed at the appropriate level, this can lead to inconsistencies when appropriate outcomes are expected;
- Absence of commitment of the members of the project team and stakeholders, i.e. poor cooperation in project management because collaborative project management highlights systematic planning, coordination and monitoring of complex projects in order to foster cooperation among team members;
- 5) The creation of impractical schedules and uncertain budget frameworks sometimes oblige project managers to work with unrealistic budgets and different time frames.

Since during the life cycle of the project a large number of activities are taking place, which are often very different from each other, it may be quite difficult to identify critical success factors in project management.

These critical factors usually vary from project to project because, for example, a critical factor for the development of computer software can be qualified staff, and a critical factor for a project that has a large number of team members can be communication and alike.

Turner and Zolin (2012) [17] suggest that the efficiency of the project is important for success, because if the project is completed later and exceeds the budget it hardly entails business success. Although, costs, time and quality necessary they are insufficient conditions when success factors are taken in consideration.

It is crucial to begin with a clear and precise definition of what is projected out as a result. In other words, the project team should have a very detailed project idea, with project vision, objectives, scope and outcomes. In this way, uncertainties that adversely affect critical success factors can be identified at each stage of the project. After that it is necessary to hire an assessment team in the early stages before there are potential factors for the occurrence of these uncertainties.

Uncertainties are not observed all the same because the occurrence of uncertainty is always different. It can be positive or negative, although most people assume that the uncertainties are something negative. Where uncertainty is negative, it means something unwanted, which represents the potential to irreparably damage the project until positive uncertainties can affect the project in a beneficial way.

Table 1 shows the five dimensions, ie success factors of the project that guarantee the quality [18].

From the shown table it can be concluded that the overall performance of a project is a much wider concept than a traditional triangle, which can be seen through the suggestion of many authors in the project management literature ([18-20]).

Success factors		A	measure that assesses the success factor	Time frame
1.	Efficiency of the project	1) 2)	Achieving the defined goals defined in the planning phase; Respecting planned budgetary framework.	The efficiency of the project as a success factor in this way is checked at the end of the life cycle of the project.
2.	The satisfaction of people involved in the project implementation	1) 2) 3) 4)	The level of people morale; Development of human skills acquired during the implementation of activities through the project phases; Increase of members in the project team; Retention of project team members during the realization of the project itself.	The satisfaction of people as a success factor in this way is checked at the end of the life cycle of the project.
3.	Impact on the user of the product or service that is the outcome of the project	1) 2) 3) 4)	Achieving functional performance; Achievement of the promised technical specifications; Fulfilling user needs; Customer satisfaction.	Some time after the project is completed, when a product or service is released to users for use.
4.	Business success	1) 2)	Creating commercial success; Creating a large market share.	The time frame through which business success can be estimated can be several months or even a year after the project is completed.
5.	Preparing for future corporate objectives	1) 2) 3)	Creating a new market; Creating a new product line; Development of new types of technologies.	The timeframe through which the future conditions can be foreseen, and can be for several months or even a year after the end of the project

#### Table 1 – List of critical success factors in quality perspective [18]

#### 4. QUALITY ASSURANCE

When assuring the quality of outputs in project phases, it is expected that, when managing projects, it complies with the limitations suggested by different authors in the literature ([21-25]) through the use of simplified planning and control systems, and simplified reporting mechanisms. Such control and management mechanisms are displayed through frameworks such as *PRINCE2* and *PMBOK* ([4], [5]).

Project Management Body of Knowledge (*PMBOK*) [5] is a collection of procedures and knowledge that are accepted as the best practices that serve project management teams.

It covers ten areas of knowledge that are fully managed: integration management, scope management, time management, cost management, human resource management, procurement management, risk management, communication management, quality management and stakeholder management.

Projects in a controlled environment (*PRINCE2*) [4] is a different methodology that is also used in project management to improve

knowledge of a project manager and overall quality of project managing.

PRINCE2 is a project management methodology that, besides PMBOK, has accepted as the project management standard in the UK, and is practiced worldwide. It covers the management, control and organization of the project. In order for project managers to fully master this methodology and get fully certified, it is necessary to fulfill two conditions:

- It is necessary to lay a foundation level consisting of mastering the project management, which follows all the methods and methodologies that cover the life cycle of the project from the preparation of the project until the closing of the project;
- The project manager is also expected to pass a certain level of practice in order to understand how this methodology is implemented in real business conditions.

*PMBOK* and *PRINCE2* do not offer a unique way to offer safe management. Both the guides state that organizations need to adapt such systems to the project culture in managing

International conference on Quality of Life

in their organizations. *PRINCE2* has enabled this by introducing a special section that would provide users with methods to define in which specific environment the project is at.

The advantage that *PRINCE2* offers is that the main decisions on the project must be based on a detailed case study, which means that a clear understanding of costs, timelines and risks is required. This procedure is performed before the start of the project and during the initiation phase.

On the other hand, *PMBOK* does not look at case studies compared to *PRINCE2*. Using the approach provided by the *PMBOK* project can be approved on the basis of stakeholders' consent and then moving to the initiation of phases so that the project can deliver the product or service on time, within the budget and by specification.

#### **5. CONCLUSION**

When ensuring the quality of project and projected outputs phase design performance, it is crucial to begin with a clear and precise definition of what is projected out as a result. In other words, the project team should have a very detailed project idea, with project vision, objectives, scope and outcomes. In this way, any uncertainty that could jeopardize the project can be identified at each stage of the project. After that it is necessary to hire an assessment team at an early stage before there are potential factors that challenge the success.

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