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Podgorica, 31.03.2020. godine

UNIVERZITET CRNE GORE
-Odboru za doktorske studije i Senatu-

Predmet: Materijal za sjednicu Odbora i Senata

Poštovani,

U skladu sa članom 38. Pravila doktorskih studija, dostavljamo Vam materijal za narednu sjednicu Odbora za doktorske studije, odnosno Senata Univerziteta Crne Gore i to:

-Ispunjenost uslova doktoranda (obrazac D2) sa propratnom dokumentacijom za mr Milenu Radonjić.



DEKAN

[Signature]
Prof. dr Nikola Milović

**UNIVERZITET CRNE GORE
EKONOMSKI FAKULTET PODGORICA
DOKTORSKE STUDIJE**

Br. 01/ **729**

Podgorica, 31.03.2020. god.

Na osnovu čl. 64. Statuta Univerziteta Crne Gore, a u vezi člana 55., 38. i 41. Pravila doktorskih studija, Vijeće Ekonomskog fakulteta je na sjednici održanoj 31.03.2020. godine donijelo

O D L U K U

1. Utvrđuje se da su ispunjeni uslovi iz Pravila doktorskih studija za dalji rad na doktorskoj disertaciji „**Javni dug i makroekonomske performanse u zemljama Zapadnog Balkana**“ doktoranda **mr Milene Radonjić**.
2. Predlaže se Odboru za doktorske studije i Senatu UCG da formira Komisiju za ocjenu doktorske disertacije „**Javni dug i makroekonomske performanse u zemljama Zapadnog Balkana**“ doktoranda **mr Milene Radonjić** u sastavu:
 - Dr Miomir Jakšić, redovni profesor, Ekonomski fakultet Beograd, Univerzitet u Beogradu, Srbija, mentor;
 - Dr Gordana Đurović, redovni profesor, Ekonomski fakultet Podgorica, Univerzitet Crne Gore, član;
 - Dr Milivoje Radović, redovni profesor, Ekonomski fakultet Podgorica, Univerzitet Crne Gore, član.
3. Odluka se dostavlja Centru za doktorske studije UCG na dalji postupak.

O B R A Z L O Ž E N J E

Doktorand **mr Milena Radonjić** je uradila doktorsku disertaciju „**Javni dug i makroekonomske performanse u zemljama Zapadnog Balkana**“, nakon čega je Komisiji za doktorske studije podnijela zahtjev za formiranje Komisije za ocjenu doktorske disertacije. Komisija za doktorske studije je, nakon razmatranja dokumentacije, predložila Vijeću fakulteta da donese Odluku kojom predlaže Senatu UCG formiranje Komisije za ocjenu doktorske disertacije „**Javni dug i makroekonomske performanse u zemljama Zapadnog Balkana**“ doktoranda **mr Milene Radonjić**.

Na osnovu izloženog odlučeno je kao u dispozitivu.

DOSTAVLJENO:

-a/a

-referentu doktorskih studija,

-Centru za doktorske studije.



DEKAN

Prof. dr Nikola Milović

Ekonomski fakultet
Univerzitet u Beogradu




SAGLASNOST

Doktorska disertacija pod nazivom „*Javni dug i makroekonomske performanse u zemljama Zapadnog Balkana*“ kandidatkinje mr Milene Radonjić zadovoljava kriterijume propisane Statutom Univerziteta Crne Gore i Pravilima doktorskih studija. Iz tog razloga, saglasan sam da rad krene u dalju proceduru, odnosno da se imenuje Komisija za pregled i ocjenu doktorske disertacije.

Beograd, 20.02.2020

S poštovanjem,


prof.dr Miomir Jakšić

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| Titula, ime, ime roditelja, prezime | mr Milena(Sreten)Radonjić | | |
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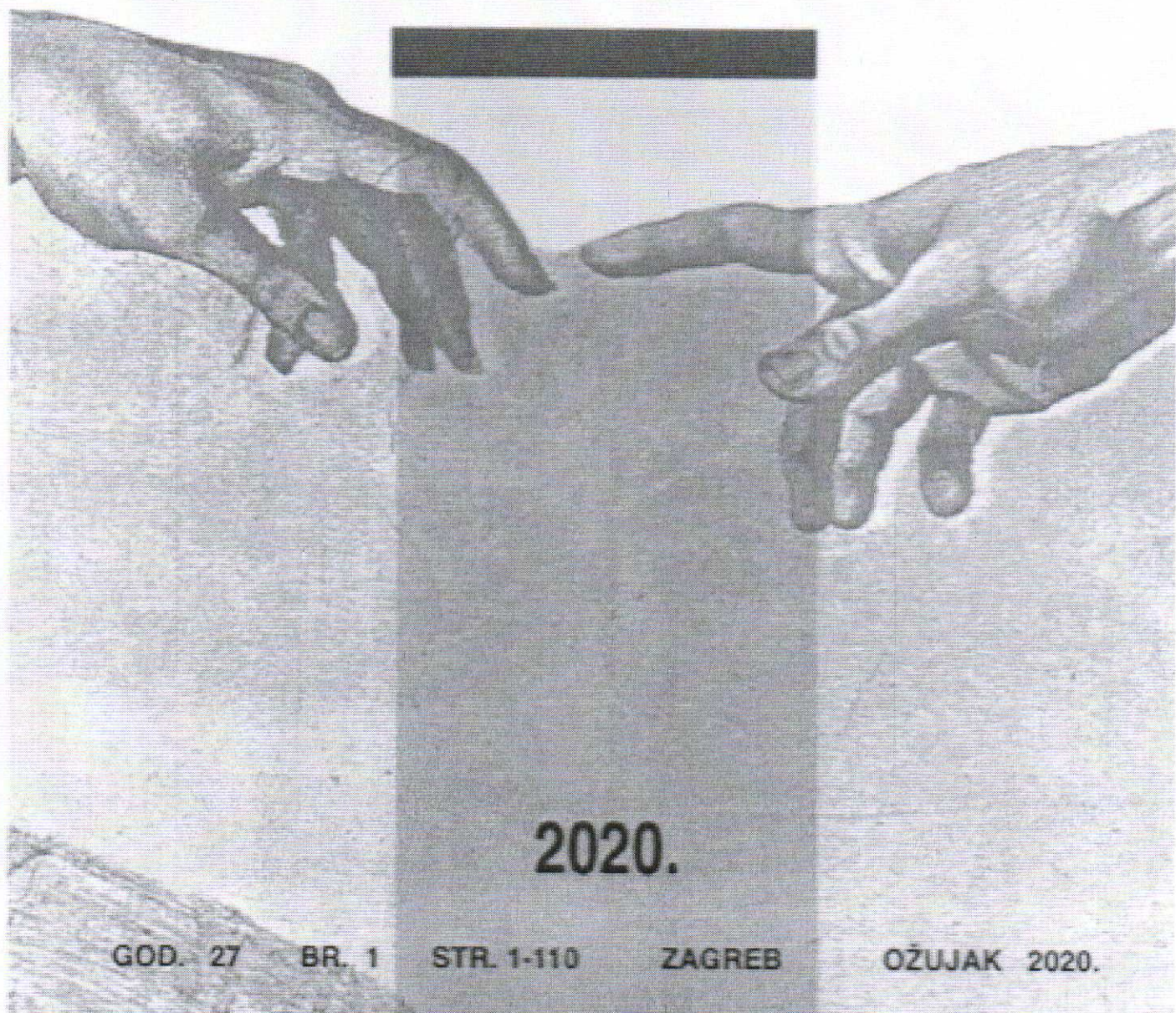
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Public Debt Dynamics in the Western Balkans: Do Social Expenditures and Economic Growth Matter?

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The aim of this paper is to examine the determinants of public debt in the Western Balkan countries, with an emphasis on the effects of economic growth and social expenditures. The study covers the period 2006-2017, and we implement the dynamic panel GMM estimation, using both first-difference and system GMM. The results suggest that incremental growth change significantly reduces debt, while social expenditures push the debt-to-GDP ratio up. Also, there is a negative relation between inflation and debt, while interest payments on previous borrowing increase public debt additionally. Finally, unemployment is not statistically significant in this setting. The main policy implication is that policy makers in these countries should favor a growth-oriented policy toolbox and efficiency-oriented social reforms, in order to keep the public debt sustainable in the long run.

Key words: *debt and growth, social expenditure, the Western Balkans.*

Subject classification codes: E62, H53, H55, H61, H63

INTRODUCTION

The dramatic increase of the public debt worldwide has challenged the sustainability of the public finances in many countries.¹ The public debt crisis was primarily a typical issue for the developing countries in the past, but the global crisis spillover effects have shown that many developed countries, such as the USA and many Eurozone

countries, are also vulnerable to extensive government borrowings. Therefore, the economic policy makers in many countries, regardless of their development stage, are faced with the main challenge to tailor an appropriate economic policy toolkit to control public debt fluctuations and keep it sustainable in the long-run, having in mind the projected GDP growth rates.

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Numerous studies have tried to identify the macroeconomic determinants of public debt (Swamy, 2015; Bittencourt, 2015; Globan & Matosec, 2015; Pirtea, Nicolescu & Mota, 2013; Budina & Fies, 2005, and others) in order to determine the most effective policy measures that do not endanger growth. Most of comparable studies show that economic growth is crucial, and more often a single important contributing factor in public debt reduction. In addition, fiscal consolidation also proved to be an important determinant of public debt, and many EU countries were focused on fiscal consolidation as a central measure of the crisis management during the debt crisis. At the same time, it is noticeable that fiscal policy has regained a key role in achieving macroeconomic stability after a long period of the superior role of monetary policy.

The Western Balkans² has undergone numerous economic and political structural changes in recent decades, but they have also experienced an intense public debt growth, especially during the global economic crisis. The Western Balkan countries, being highly vulnerable to the external shocks, were affected directly or indirectly by the global economic crisis, due to the spillover effects. Consequently, they experienced low, and in some cases negative economic growth rates, as well as an enormous increase in the unemployment rate. The crisis revealed a number of fiscal vulnerabilities of these countries, as well as a cyclical nature of tax revenues over the years preceding the crisis. It caused the income level to be reduced, while the public sector salaries and pensions, which account for a large proportion of government expenditure in the region (more than

25% on average), remained high. Thus, the governments in the region intensively used their fiscal resources to manage the crisis, thus endangering their fiscal reserves and causing public debt to increase exponentially in all six countries in the region. At the end of the crisis, many countries did not manage to re-establish their pre-crisis economic growth rates, which in turn jeopardized both public debt sustainability and macroeconomic stability. Accordingly, all the governments focused on fiscal consolidation in the post-crisis years, aiming at bringing public debt back to a sustainable level.

Due to the crisis effects, many countries have introduced fiscal rules (for example, Montenegro, Albania and Serbia), while consolidation was implemented both in terms of government revenues and expenditures. For example, Albania reformed its tax system to boost tax revenues, since the proportion of government expenditure in the GDP was not particularly large. On the other hand, the Serbian government implemented fiscal consolidation to control expenditures, since the state budget was burdened by inflated public sector expenditures and pensions. Fiscal consolidation reduced the deficit in the short-run, but further fiscal consolidation is necessary to stabilize the debt dynamics in all Western Balkan countries. On the other hand, sluggish economic growth hampers the debt dynamics of the region, since it affects the fiscal positions of these countries the most. According to the World Bank, the Western Balkans has made significant progress since the transition era of the 1990s, but the structural reforms are still an ongoing process. The major problem facing the region is a low productivity

² Following the EU definition, this term refers to Balkan area countries (Albania, Bosnia & Herzegovina, Kosovo, Macedonia, Montenegro and Serbia) that are not members of the European Union, but each aims to be part of the future enlargement. This designation is without prejudice to positions on status, and in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.

that reflects years of low investment, weak institutions and a difficult business environment (World Bank, 2017).

Having in mind the overall economic and political context in this region, there are several important problems that should be addressed in the context of an appropriate economic policy toolbox to ensure a sustainable path of public debt in the coming years. The aim of this paper is to examine the potential determinants of public debt dynamics, particularly what are the debt effects of economic growth and social policy in the Western Balkans. Specifically, we hypothesize that the relation between growth and public debt is negative and significant, while the relation between social policy, proxied by total social expenditures, is positive and significant.

To be more specific with respect to social expenditures, it is worth emphasizing the nature of these fiscal costs. Namely, social outlays are at the same time benefits offered by governments to specific social groups that do not meet predefined social standards. According to IMF (2014), "social benefits are current transfers receivable by households intended to provide for the needs that arise from social risks - for example, sickness, unemployment, retirement, housing, education, or family circumstances. These benefits are payable in cash or in kind to protect the entire population or specific segments of it against certain social risks. Examples of social benefits are the provision of medical services, unemployment compensation, and social security pensions." Thus, the main research problem here is to determine if public debt is driven by the growth rate and social expenditures, and if so, what the policy-related recipe to keep the debt position sustainable would be in the long-run.

The major contributing elements of the study, comparing to the existing literature, are related to both quantitative and qualita-

tive research outcomes. Namely, the study employs two comparable dynamic panel estimators, the Arellano and Bond (1991) difference GMM and Blundell and Bond (1998) system GMM with additional moments' restrictions. In addition, to our best knowledge a similar study that deals with the same sample has not been conducted yet, making a particular contribution to the existing literature body. Finally, the practical implications of the study are not questionable, since the results can serve as a useful guide for policy makers to create a sound and effective fiscal measure, aiming to regain a balanced fiscal position and macroeconomic stability.

The study is structured as follows. After the introductory notes, we surveyed the most relevant empirical studies dealing with the public debt determinants worldwide, with an emphasis on their methodological approaches, main results and policy implications. The following section includes the data description, methodological framework, variable selection, and model specification. The next section presents the empirical results and discussion, where the latter compares our findings with the previous empirical evidence, followed by the conclusion.

LITERATURE REVIEW

The increasing public debt worldwide has sparked debates on the debt-related macroeconomic performances, primarily on growth dynamics. Numerous studies have shown that a high level of public debt (over 90% as a share of the GDP) is associated with lower, and even negative growth rates, in both developed and developing countries (Akram, 2016; Mencinger, Aristovnik & Verbič, 2014; Panizza & Presbitero, 2013; Minea & Parent, 2012; Reinhart & Rogoff, 2010; Kumar & Woo, 2010, and others). In a very extensive empirical investigation, Swamy (2015) examines the

main macroeconomic drivers of public debt, where the study includes 252 countries and covers a 30-year period. The results show that the real economic growth, foreign direct investment, government expenditure and inflation are negatively correlated with public debt. On the other hand, public debt is positively correlated with gross fixed capital formation, final consumption and trade openness. In a more sophisticated study, Sinha, Arora and Bansal (2011) emphasize the fact that the determinants of public debt differ across countries, having in mind their development status (high-income or middle-income economies). Their study shows that the growth rate, government expenditure, education spending, and the current account balance are the most important driving forces of public debt in both groups of countries. On the other hand, some variables such as foreign direct investment and inflation, do not affect public debt in high-income countries, but they are significant determinants of public debt in middle-income countries.

The existing literature also recognizes that the public debt determinants can exhibit cross-effects, thereby mitigating or enhancing their initial public debt effects. For example, an interest rate shock can lead to an increasing debt-to-GDP ratio and it can also adversely affect economic growth, which further deteriorates the public debt dynamics. If the government implements fiscal consolidation to prevent the debt crisis, it could have beneficial effects on the debt itself, but the effects of the initial interest rate shock could not be easily determined. For example, on a sample of 15 developed economies, Anaya and Pienkowski (2015) examine such cross-effects on a sample of 15 developed economies, showing that such an interest rate shock acts as a public debt stabilizer, while a growth-related shock intensifies debt accumulation. In addition, the public debt dynamics depends

significantly on the prevailing monetary policy regime, because those countries that have a constrained monetary policy must rely on the fiscal policy to stabilize the public debt growth rates.

Some recent studies emphasize the role of inflation in determining the level of public debt, since it can have an impact on both government revenues and expenditures. For example, Aizenman and Marion (2011) show that an inflation rate of 6% leads to a 20% reduction in the debt-to-GDP ratio in the USA, over a four-year timeframe. More interestingly, Hall and Sargent (2010) conclude that inflation played a crucial role in reducing the US public debt in the period 1946-1974. Conversely, Forslund, Lima and Panizza (2011) show that inflation in the past did not play a significant role in driving the debt-to-GDP ratio of the emerging market economies. Consequently, these studies support an intuition that the impact of inflation on debt depends heavily upon the developmental stage of the countries that comprise the research sample.

Going back to our main research problem, we find that the vast majority of the empirical studies support the assumption that economic growth determines public debt critically. For example, Easterly (2011) shows that, regardless of developmental status, the economic slowdown in the post-1975 had significant implications for the fiscal stability of both developed and developing countries. Namely, modest growth rates led to a reduction in the present value of tax revenues and budget surpluses, which increased the public debt burden even further. Therefore, sluggish economic growth in many industrialized countries played a significant role in their debt crises. The same effect is visible for the middle-income countries in the 1980s and the heavily indebted poor countries (HIPCs) in the 1980s and 1990s. Similarly, Bittencourt (2015) examines the impact of

macroeconomic factors on the public debt dynamics in nine South American countries, between 1980 and 2009. It is worth mentioning that all of these countries went through significant structural economic and political changes during the observed period, implying that these structural turbulences must be taken into account when deciding about the final effects. The study identifies that only economic growth has significantly reduced the debt ratios in the region, while other possible factors, such as inflation, inequality, and constraints on the executive do not have a significant impact on the public debt dynamics. In addition, Cherif and Hasanov (2012) found that the debt in the USA is mainly growth-driven, while the austerity policy or fiscal consolidation proved to be ineffective. Finally, Proaño, Barbosa de Carvalho, and Barbosa-Filho (2012) are more specific, saying that austerity policy is effective in reducing public debt if the growth rate exceeds the real interest rate, even when the primary balance deteriorates.

Apart from the growth-debt empirical investigations, there are studies that identify fiscal consolidation as an important determinant of the public debt fluctuations. For example, Abbas, Akitoby, Andritzky, Berger, Komatsuzaki and Tyson (2014) explore 26 episodes of large public debt reductions in 20 developed economies, covering the period 1980-2013. The results show that these countries mainly used a proactive growth policy and well-designed consolidation to reduce public debt. In addition, inflation, the interest rates and stock-flow adjustments had a negligible impact on public debt, compared to the high growth rates of economic growth and strong-constrained primary balance. Accordingly, a well-designed set of economic and fiscal measures aimed to encourage economic growth and consolidating public finance would contribute to reducing public debt much more

than the monetary policy actions targeting money supply.

There are also numerous studies that focus exclusively on fiscal consolidation as the main policy tool to control public debt, though the empirical findings are mixed because of different research samples. For example, Daniel, Callen, Terrones, Debrun and Allard (2003) examine the relationship between public debt and fiscal consolidation (approximated by the primary balance) in both developing and developed countries. The results show that the primary balance, for any level of public debt, is lower in developing than in developed countries. In addition, the effect of the primary balance on public debt reduction weakens at higher public debt levels, and completely disappears when the debt-to-GDP ratio rises above 50% in developing countries. This finding is completely in line with the results provided by Mendoza and Ostry (2007). As for the developed countries, the public debt effect of the primary balance is accelerated when the debt-to-GDP ratio exceeds 80%, and it becomes three times stronger than at the lower debt levels. Furthermore, Budina and Fies (2005) point out that both primary balance and growth, together with fiscal consolidation, the interest rate, exchange rate and some one-off events (e.g. privatization or bank bailouts) significantly affect public debt in the selected market-access countries. Finally, Cafiso and Cellini (2012) provide evidence that fiscal consolidation in the selected EU countries can slow down an increasing public debt, while its effects are much greater if consolidation is based on reducing consumption rather than increasing tax rates.

The academic debate about the public debt dynamics in the EU countries in the post-crisis years are also interesting. Namely, the crisis hit the Eurozone economies, especially those from the south periphery (Portugal, Greece, Italy, and Spain), due to

global economic cross-country relations, and the new challenges revived the debate about the strengths and weaknesses of the anti-crisis fiscal policy. Mota, Costa Fernandes and Nicolescu (2012) show that the main factor that led to the crisis in the European Union was a sharp GDP contraction, resulting in decreasing investors' confidence and rising interest rates. This experience showed that debt crisis management should rather be based on fiscal consolidation than on a growth-focused policy, aiming to boost domestic demand in the case of peripheral Eurozone countries and to encourage domestic demand in more advanced EU economies such as Germany. Italy, as a particular example, has experienced a sharp decline in the GDP over the crisis years, and a policy-focused case study has shown that the economic policy that supports economic growth of over 1.8% per year can reduce the Italian debt-to-GDP ratio to 100% (Casadio, Paradiso & Bhaskara, 2012). Having in mind that the Italian economy depends heavily upon a favorable international macroeconomic environment, favorable oil prices and a "weak" euro would also be important contribution factors of a successful debt-related economic policy. In addition, the expansionary monetary policy of the European Central Bank that would reduce the interest rates would also build momentum.

As for the public debt studies that deal with the new member states, it is a well-known fact that these countries initially contributed to the growth in the EU, but then plummeted into a debt crisis and large-scale macroeconomic instability. Many empirical studies have shown that these pressures required a quick policy response, and many new member states have been implementing strong fiscal consolidation, even after a decade of the initial crisis wave. For example, Sever, Drezgić and Blažić (2011) point out that the structure of the budgetary spending is essential for economic growth

in Croatia, with a positive effect of public investments on the growth dynamics. Also, Dalić (2013) investigates the growth effects of fiscal policy in the new member states (NMS) of the EU using the panel regression framework. The author does not find the positive effect of social expenditures on growth, while the investment effects are weak and not robust to dynamic specification. Finally, highly volatile government investments harm economic growth. Finally, Globan and Matosec (2015) show that GDP growth is the most important factor of reducing the relative proportion of public debt in the new member states, although a balanced budget can also be a contributing factor, but with limited effects. Accordingly, they suggest that a successful debt management should be based on the measures that target economic growth, while irresponsible public finance management would lead to additional costs.

Furthermore, Pirte, Nicolescu and Mota (2013) obtained similar results for Romania, finding that the primary fiscal balance, economic growth, real interest rate and exchange rate are the most important driving factors of public debt. The study also shows that the effect of growth on public debt reduction was particularly intense in the post-crisis period. In another country-based empirical study, Šimović, Čorić, and Deskar-Škrbić (2014) investigate the possibilities of fiscal policy in Croatia, in particular, the effect of revenue and cost budget structure on the GDP dynamics. They employ the Vector Autoregressive model (VAR), aiming at proposing a version of a smart fiscal consolidation as a prerequisite for fiscal stabilization. Based on the impulse-response forecast, government purchases, social benefits and subsidies have a positive effect on GDP in the short-run, and negative in the long-run. It is also concluded that direct taxes, particularly income taxes have the long-lasting negative effects on growth.

Finally, there is a significant literature body dealing with social policy as a contributing factor of public debt dynamics, although there are some recent attempts to combine growth and social expenditures to address potential reverse causality running from debt to social benefits. For example, Lora and Olivera (2007) explore the effects of the total public debt (external and domestic) on social expenditure worldwide and in Latin America in an unbalanced panel fashion, covering the period 1985-2003. Their results indicate that defaulting on debt obligations helps to increase social expenditures. Also, many of the findings are heterodox and country-specific, but they conclude that there is no better way to protect social expenditures than to avoid over indebtedness, especially in Latin America. In a more recent study, Czech and Tusinska (2015) investigate the causality between high welfare spending and the growing public debt in 21 highly developed countries, covering the period 1991-2014. They found that the effects of high social benefits on debt are country-specific and mixed, with no straightforward conclusion about the direction and magnitude of this impact in particular cases.

The relationship between fiscal policy, debt, and social outlays on one hand, and economic growth on the other hand, has attracted considerable attention of the international financial institutions, mainly the World Bank and IMF. Most of these studies target international and global dimension of the problem, where empirical investigations deal with different global regions and country groups. For example, there are very interesting observations of the effects of fiscal policy on economic growth in Eastern Europe and Central Asia provided by the World Bank (2007). The study suggests that macroeconomic stability is the key contributor of the long-term growth, "while moderate levels of public spending— around one-third of GDP or less—are preferable

to high levels when governance and public administration are not strong". Finally, investment and growth are constrained by an "aggressive" taxation, while social expenditures contribute to growth. Also, López, Thomas and Wang (2008) propose several measures that can be implemented to improve quality of growth in the long-run. Specifically, they conclude that restructuring government spending, tax system reforms, rational social expenditures, and more extensive public good offer enhance the quality of economic growth worldwide.

More recently, Brahmabhatt and Canuto (2012) reconsidered the role of fiscal policy and economic development in the aftermath of the global financial crisis (2007-2008). Specifically, they evaluate how fiscal positions in developing countries have evolved in the wake of the crisis. The main recipe for the countries is to build a sound fiscal position during the normal time, especially rationalizing social benefits, since it allows them to avoid radical discretionary expenditure cuts during that crisis, which can in turn harm economic growth additionally. Finally, the recent IMF (2019) policy paper prescribes a more effective social spending management that would include social spending "floors" in the IMF-supported programs. In addition, *"the key channels through which social spending can become macro-critical are fiscal sustainability, spending adequacy, and spending efficiency. The strategy encourages early engagement with the authorities and envisages that staff continues developing policy advice on sustainable financing of social spending and increases the focus on the quality of such spending for improving social outcomes, drawing on the expertise of IDIs."*

Another multidimensional study by Chang, Lee, Geng and Ning (2016) investigates the link between social expenditures and rising public debt in 13 OECD countries, taking into account both direct

and reverse causalities. They found that higher social expenditures increase government debts, while the shocks from the government debts to social expenditures are conversely uncertain. Namely, higher government debt does reduce social expenditures, but it may be linked to higher social spending. In addition, Akram (2015) deals with the reverse causality, showing that high public debt is indifferent to the rich/poor population, since the external debt is not associated with higher inequality in the selected Asian countries. Also, Alesina and Passalacqua (2015) emphasize political aspects of the public debt dynamics, concluding that the political cycles connected with the electoral periods also affect the public debt and social setting in many developed countries. Finally, Lee (2017) deals with the causality between social expenditures and public debt in 34 OECD countries, covering the period 1980-2014. The study reveals robust evidence that the rise in public debt is not attributable to social expenditure.

As we can see, most of these studies are based on static balanced or unbalanced panel estimations, taking into account either the general macroeconomic aspect or the social aspect of rising public debt, both in direct relation or assuming reverse causality. However, this study is specific to the public debt model as it uses both aspects and estimates the causalities in a dynamic panel fashion. In addition, there is no single study dealing with the Western Balkan countries, which makes this study unique to a certain point. So, the paper aims to fill the gap in the existing literature and provide some policy implications regarding future fiscal and social policy actions in these countries.

DATA AND METHODOLOGY

The data are obtained from multiple sources, such as the IMF's World Economic Outlook Database, the World Bank's World Development Indicator (WDI) database

and the statistical bureaus of the analyzed countries. Our analysis is based on the annual data for six countries in the Western Balkans (Albania, Bosnia and Herzegovina, Kosovo, Macedonia, Montenegro and Serbia), covering the period 2006-2017. Specifically, the database includes the selected macroeconomic variables such as GDP growth, inflation, unemployment, debt interest payments, and social expenditures as a social policy proxy, arranged in a balanced panel fashion.

The empirical investigation has three subsequent stages, starting from the stationarity check to model specification and dynamic panel data estimation. Specifically, the model specification and selection of an efficient estimator is based on the preliminary RESET test to check the assumed linear relations. Since we are dealing with the macroeconomic variables that have well-known lagged effects and some of them have proved to be highly correlated, causing potential multicollinearity problem, we have chosen a dynamic GMM estimator. Following Hansen (1982), the generic GMM estimator assumes that a sample of T observations is drawn from the joint probability distribution: $f(w_1, w_2, \dots, w_T, \theta_0)$, where θ_0 is the $(q \times 1)$ vector of true parameters and w_t contains one or more endogenous and/or exogenous variables. The population moments condition is given as follows:

$$\mathbb{E}[m(w_t, \theta_0)] = 0 \quad \text{for all } t,$$

where $m(\cdot)$ is the r -dimensional vector of functions. The estimator is dealing with three cases: (a) $q > r$, meaning that the parameters in θ are not identified; (b) $q = r$, meaning that the parameters in θ are exactly identified; and (c) $q < r$, meaning that the parameters in θ are overidentified and the moments conditions have to be restricted by weighting the matrix At , in order to deliver a unique θ in the estimation. The estima-

tion is based on the empirical counterpart of $\mathbb{E}[m(w_t, \theta_0)]$:

$$M_T(\theta) = \frac{1}{T} \sum_{t=1}^T m(w_t, \theta),$$

where $M_T(\theta)$ is the r -dimensional vector of sample moments. In addition, the GMM estimator of θ is based on the following specification:

$$\hat{\theta}_T = \operatorname{argmin}_{\theta \in \Theta} \{M_T(\theta)' A_T M_T(\theta)\},$$

where A_T is a $r \times r$ positive semi-definite, possibly random weighting matrix. To obtain an efficient estimator, we have to choose the weighting matrix that minimizes the covariance matrix of $\hat{\theta}$. Furthermore, Arellano and Bond (1991) suggest using a GMM approach based on all available conditions, starting from the first difference estimator specified as follows:

$$\Delta y_{it} = \gamma \Delta y_{it-1} + \beta' \Delta x_{it} + \Delta \varepsilon_{it}$$

It is obvious that for $t=(1, 2)$, there are no valid instruments, while for $t = T$, the valid instrument for $\Delta y_{iT-1} = (y_{iT-1} - y_{iT-2})$ is y_{iT-2} , as well as the recent time-ordered dependent variable $(y_{iT-3}, y_{iT-4}, \dots, y_{iT-(T-1)})$. The corresponding matrix of instruments for the lagged difference consists of a diagonal combination of the time-ordered dependent variable, with off-diagonal zeros. The moment conditions are defined as $\mathbb{E}[m(W_t', \Delta \varepsilon_t)] = 0$, while the corresponding GMM estimator is formulated as follows:

$$\hat{\lambda}^{GMM} = (G' Z S_N Z' G)^{-1} G' Z S_N Z' \Delta y,$$

where $\hat{\lambda}^{GMM} = [\hat{\gamma}^{GMM}, \hat{\beta}^{GMM}]$, $G = (\Delta y_{t-1}, \Delta X)$, $Z = (W_t, \Delta X)$, while S_N is an optimal weighting matrix that maxi-

mizes the covariance matrix of $\hat{\theta}$. It is an efficient estimator, but the efficiency deteriorates as y_{it} exhibits substantial persistence ($\gamma \rightarrow 1$) and as σ_μ increases relatively to σ_ε . The consistency of the GMM estimator is based on the assumption that the transformed error term is not serially correlated, i.e., $\mathbb{E}(\Delta \varepsilon_{it}, \Delta \varepsilon_{it-2}) = 0$, which we obtain by testing the residuals from the first-difference equation.

Blundell and Bond (1998) further advanced the GMM specification, proposing an estimator that includes additional moment restrictions, particularly on the distribution of initial values (y_{i0}). This set of restrictions is important when γ is close to unity and/or when $\sigma_\mu/\sigma_\varepsilon$ becomes large. If we assume that the differenced dependent variable is orthogonal to the sample average, then the following moment conditions can be implemented:

$$\mathbb{E}[(y_{it} - \gamma y_{it-1})] = 0$$

Finally, the Blundell-Bond system GMM exploits the instrument matrix form the Arellano-Bond first-difference GMM, and adds additional diagonal entries, specifically the first-differenced dependent variable throughout the observation period.

Taking into account these methodological remarks, we first check the stationarity of the variables, and then investigate whether the relationship between a set of independent variables is linear or non-linear, using the RESET test. To be more specific, we implement the two-step procedure (Enders, 2015):

Step 1: Estimate the best-fitting linear model. Let $\{e_t\}$ be the residuals from the model and denote the fitted values by \hat{y}_t .

Step 2: Select a value of H (usually 3 or 4) and estimate the regression equation:

$$e_t = \delta z_t + \sum_{h=2}^H \alpha_h \hat{y}_t^h \quad \text{for } H \geq 2,$$

where z_t is the vector that contains the variables included in the model estimated in Step 1. Finally, we have formulated the following model specification (matrix form):

$$\Delta Y_{it} = \gamma \Delta Y_{it-1} + \beta' \Delta X_{it} + \Delta \varepsilon_{it},$$

where ΔY_{it} represents the first-differenced public debt across the sample, β' is a transposed vector of the coefficients, ΔX_{it} is the first-differenced matrix of independent variables, and $\Delta \varepsilon_{it}$ is the first-differenced error term. To be more specific, the extended first-difference public debt model is given in the following specification:

$$\begin{aligned} \Delta Debt_{it} = & \gamma \Delta Debt_{it-1} + \beta_1 \Delta GDP_{it} + \\ & + \beta_2 \Delta Soc_{it} + \beta_3 \Delta Inf_{it} + \beta_3 \Delta Unemp_{it} \\ & + \beta_3 \Delta IntPay_{it} + \Delta \varepsilon_{it}, \end{aligned}$$

where $Debt_{it}$ is public debt, GDP_{it} represents the GDP growth rate, Soc_{it} includes social expenditures (measured as a share of the sum of education, health and social benefits in the GDP). In addition, Inf_{it} represents the annual inflation rate, $Unemp_{it}$ represents the annual unemployment rate, while $IntPay_{it}$ represents interest payments as a share of the GDP. Finally, the subscript it denotes country i in period t (the same notification for all the variables). Following Arellano (2003), we constrained the coefficients in certain lags to be zero, when projecting regressors onto the instrument set. Also, certain singular instruments are automatically dropped provided that the identification is maintained.

It is worth noting that the above specification is based on the previous similar stu-

dies (Bittencort, 2015; Globan & Matosec, 2015; Swamy, 2015; Pirtea, Nicolescu & Mota, 2013; Sinha, Arora & Bansal, 2011), and that there are well-known transmission channels that affect public debt. According to Bittencort (2015) and Krugman (2010), the countries with faster economic growth should experience a decreasing public debt, meaning that the growth-debt relation is expected to be negative. Social expenditures create an additional fiscal burden, but also contribute to economic development up to a certain point. Accordingly, this relationship could be positive, negative or insignificant. In addition, inflation erodes the domestic public debt and there are suggestions from the related literature that a low and stable inflation rate contributes to growth. Consequently, we might expect the relationship between inflation and debt to be negative. As for unemployment, the labor market surplus causes lower current government revenues and higher welfare spending, which increases the fiscal burden (Castells-Quintana & Royuela, 2012: 156). Therefore, it is expected that unemployment is positively related to debt. Finally, interest expenses represent a component of budget balance, together with the primary balance. While primary balance shows the efficiency of fiscal adjustments aimed at decreasing current deficit, it is still possible to record a rise in public debt due to rising interest rates (Šimović, 2018: 235). Thus, the literature suggests a positive and significant association between interest payments and debt.

The post estimation strategy includes the Sargan–Hansen validity test of the over-identifying restrictions (J-statistics), assuming that that model parameters are identified via a priori restrictions on the coefficients. Under the null hypothesis that the over-identifying restrictions is valid, we basically test the validity of the instruments, where the J-statistics follows the chi-square distribution with $(m-k)$ degrees of freedom ($m = \text{number of instruments}$, $k =$

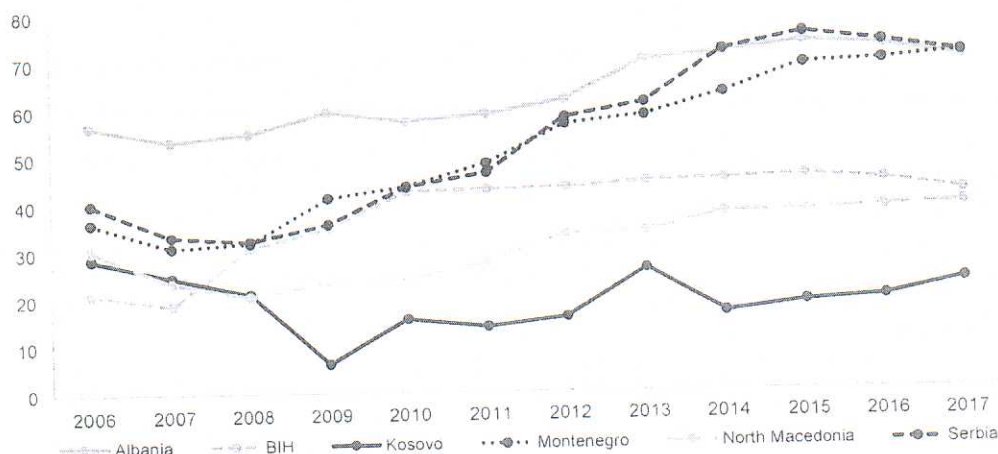
number of endogenous variables). In addition, we test the normality assumption of the residuals from the first differenced equation using the Jacque-Berra LR-type test, assuming that the error terms are normally distributed. We also tested the hypothesis of no serial correlation between the residuals (both at lag h and between lag 1 and lag h , with maximum 3 lags) using the Edgeworth expansion LR and Rao F-test. Finally, we check the cross-sectional dependence within the panel using the Breusch-Pagan LM test, Pesaran scaled the LM test and CD test. Under the null hypothesis, u_{it} is assumed to be independent and identically distributed (i.i.d.) over periods and across cross-sectional units. Under the alternative, u_{it} may be correlated across cross sections, but the assumption

EMPIRICAL RESULTS AND DISCUSSION

Descriptive Analysis

The empirical section presents a descriptive analysis of the level-based changes of the selected variables, and includes the cross-country comparisons between public debt, the GDP and social expenditures. In addition, we scrutinize the sample using a standardized set of descriptive statistical indicators (including skewness and kurtosis), coupled with the correlation matrix of the differenced series. The country-based trends for debt-to-GDP ratio, the GDP growth rate and social expenditures (as a share in the GDP) are presented in the following figures.

Graph 1
Debt-to-GDP ratio



Source: IMF, World Bank, WEO, and National Statistical Offices.

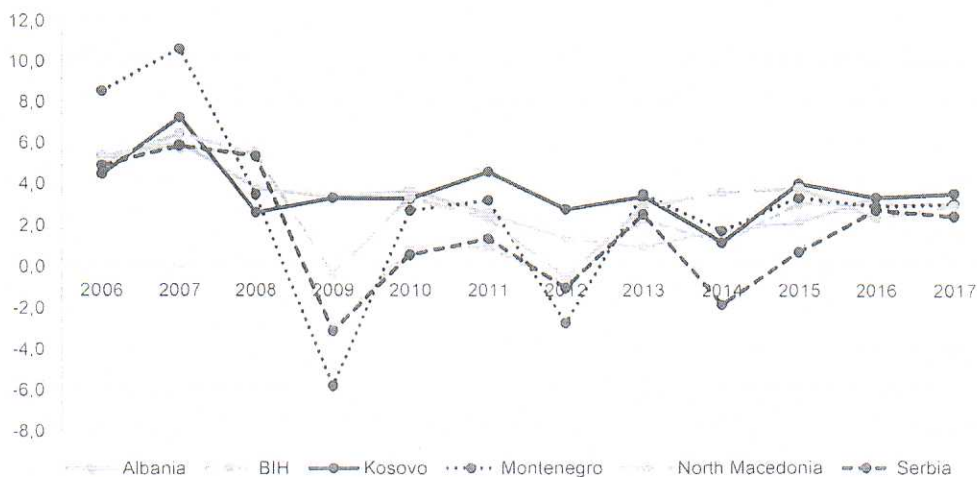
of no serial correlation remains (Pesaran, 2004). Finally, we use the Arellano-Bond test for zero autocorrelation in first-differenced errors, with the null hypothesis of no autocorrelation.

Graph 1 shows the debt-to-GDP ratio dynamics in 6 Western Balkan countries. As we can see, the observed period is characterized by a huge increase in the debt-to-GDP, and it is especially visible for Serbia,

Montenegro and Bosnia and Herzegovina (BIH). Talking about the exact figures, the debt of Serbia and Montenegro increased for 35.25%, 31.28% and 21.04% respectively, comparing the ratios between 2017 and 2006. Also, Albania, Serbia and Montenegro have much bigger average debt-to-GDP ratios (68.71%, 53.83% and 51.92%, respectively) during the observed period, compared to the regional average (42.98%). At the regional level, the debt-to-GDP ratio has increased by 3.96% on average over the observed period. But this regional figure hides some extreme changes in the ratio at the country level. For example, the ratio increased rapidly in BIH in 2008 (65.10%), in Kosovo in 2010 and 2013 (154.98% and 64.70%), in Montenegro in 2009 (29.22%), in North Macedonia in 2012 (21.38%), and in Serbia in 2010 and 2012 (21.39% and 25.11%). The biggest average growth rate of the debt-to-GDP ratio is recorded in Kosovo (11.28%).

Graph 2 shows the GDP growth rates in the selected countries over the period 2006-2017. At first glance, it is obvious that a sudden GDP drop is partially responsible for rapid jumps in the debt-to-GDP ratio. As we can see, the countries that have experienced the biggest increase in the debt ratio have at the same time experienced the biggest recessions, such as Serbia and Montenegro. If we take into account the exact figures, Montenegro, Serbia, and BIH experienced the biggest drop in GDP growth (-5.5%, -2.4% and 2.3%, respectively) in 2017 compared to 2006. The average growth rate over the observed period at the regional level is 2.8%, with the biggest average recorded for Kosovo (3.7%) and 2.9% (Montenegro). It is obvious that the region was hit by the spill-over effects of the global financial crisis, causing a significant GDP drop, followed by decreasing government revenues and increasing public borrowing.

Graph 2
GDP growth rates

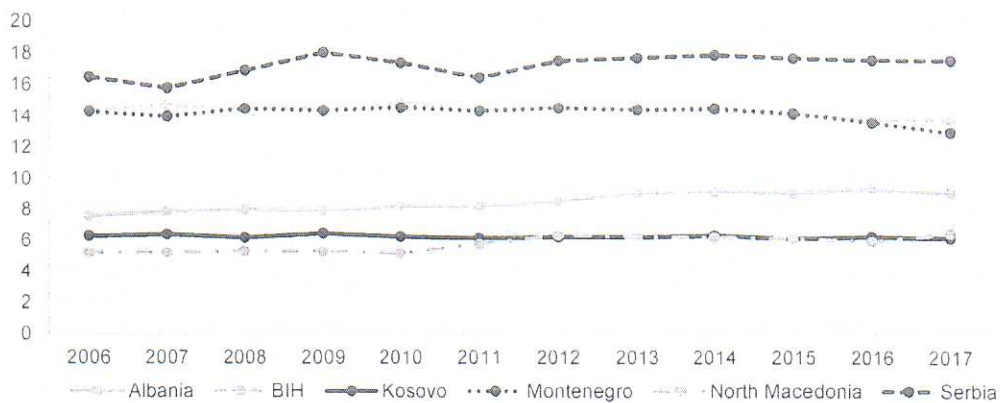


Source: IMF, World Bank, WEO, and National Statistical Offices.

Graph 3 shows the trends in social expenditures for the selected Western Balkan countries, over the period 2006-2017. As we can see, we have almost a constant trend for all countries, meaning that they just maintained a predefined level of social costs relative to the GDP.

The level-based trends of the macroeconomic and social indicators for the whole sample are presented in Graph 4. At first glance, the indicators show a highly cyclical pattern and huge heterogeneity across the sample. Specifically, Albania, Montenegro and Serbia have experienced a huge jump

Graph 3
Social expenditures (share in GDP)

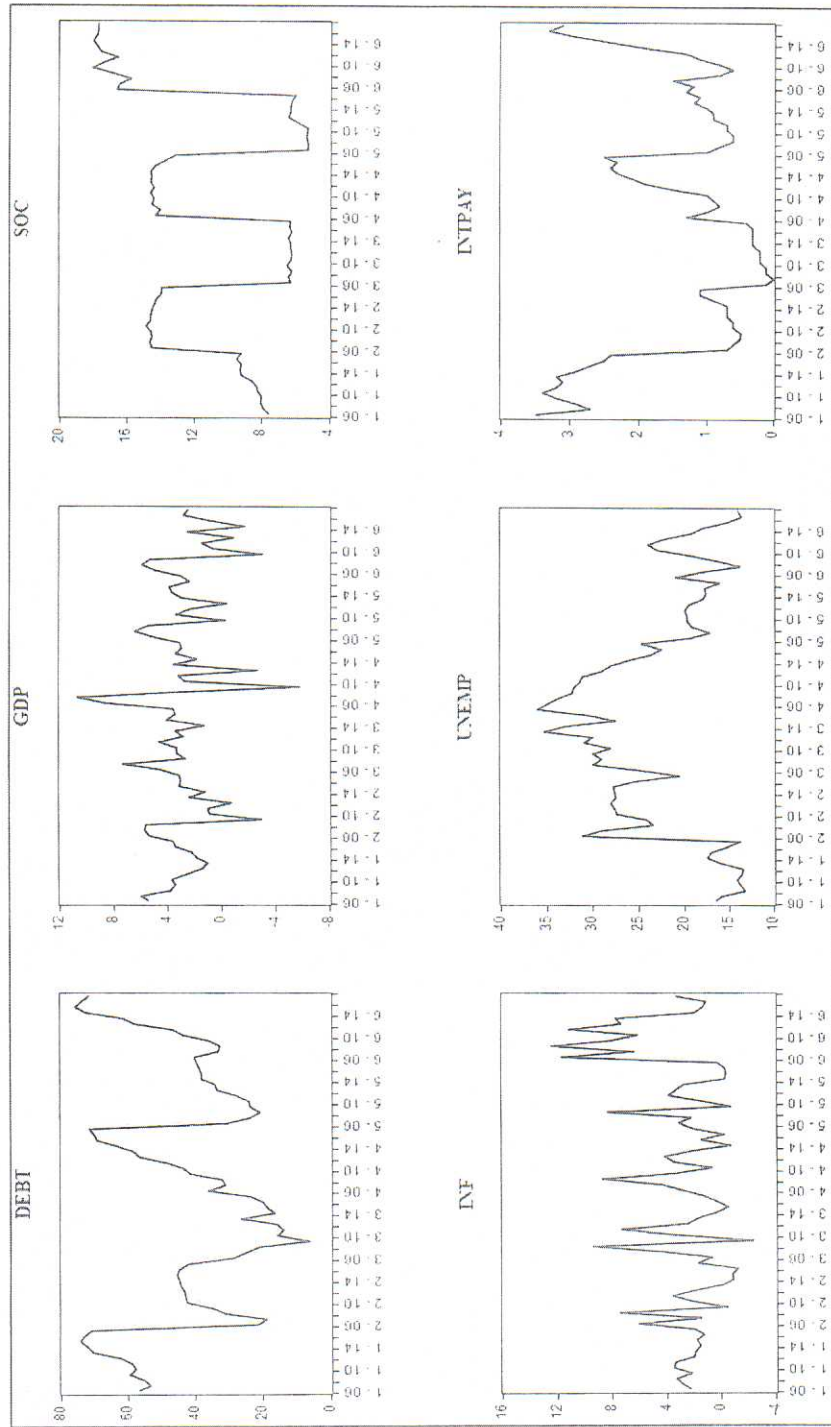


Source: IMF, World Bank, WEO, and National Statistical Offices.

Based on the social expenditure trends, these countries have tried to maintain the same level of welfare setting, having in mind harsh economic conditions caused by the crisis. It is clear that the countries decreased social benefits proportionally to the GDP decrease, meaning that the large-scale fiscal decentralization was primarily based on social cuttings. The biggest average share of social costs in the GDP over the observed period is recorded in Serbia (17.3%), BIH (14.4%), Montenegro (14.3%). Comparing the figures between 2017 and 2006, BIH (-0.6%) and Montenegro (-1.2%) decreased their social costs relative to the GDP, while North Macedonia (1.4%) and Serbia (1.2%) increased their social costs relative to the GDP.

in debt, compared to other countries, followed by the same pattern of interest payments. The social cost trajectory reflects those country-level differences, where Serbia leads in social expenditures, followed by BIH and Montenegro. There is also a huge difference in the unemployment rate between Albania and Serbia (low unemployment) on one hand, and the rest of the sample (high unemployment), on the other hand. Finally, the inflation rate clearly shows a low inflation environment in Albania, while other countries are characterized by a high inflation environment. Overall, we are dealing with an extremely heterogeneous sample, where country-specific heterogeneity dominates the time-trend effects.

Graph 4
Dynamics of macroeconomic and social indicators (sample level)



Source: Authors' calculation.

The descriptive statistics across the variables is presented in Appendix (see Table A1 and Table A2). As we can see, there is a huge difference in the variability of the indicators, judging by the standard deviation. Specifically, the overall standard deviation points to some highly volatile variables, such as debt (both level and lagged values), unemployment and social costs. On the other hand, some other variables, such as GDP growth and interest payment, exhibit quite a stable path. It is worth emphasizing that GDP growth is less volatile than the unemployment rate, which implies that, contrary to common sense, these two variables are not highly correlated. However, if we take into account the cross-sectional variations (between) and throughout the timeframe (within). Namely, the cross-sectional variability effect is much more pronounced for debt (both level and lagged values), social costs, unemployment and interest payment, while the time variability effect dominates for the GDP and inflation.

Another important detail is a visible distributional difference across the initial variables, judging by the skewness and kurtosis (see Table A1). Namely, all the variables have non-zero skewness (though social costs are very close to 0), meaning that their distribution has either a long left tail (GDP) or a long right tail (all other variables). Similarly, kurtosis shows that some distributions are peaked (leptokurtic) relative to the normal distribution (the GDP and inflation), while other variables have a flat (platykurtic) distribution relative to the normal. As we have seen, in terms of the tails, social costs are closest to normal distribution, but they have a significantly flatter distribution compared to the normal approximation.

Econometric Results and Discussion

We start our econometric investigation with stationarity testing, followed by the multicollinearity check. To check for the

possible unit roots, we have implemented a series of stationarity checks both at level and first difference, and the results are presented in Appendix (see Table A3 and Table A4). We follow the most rigorous approach, meaning that if any of the stationarity tests show that a variable is non-stationary, then we implement difference transformation. That way, our stationarity analysis is robust to different distributional properties that the tests are based upon. Accordingly, all the variables, excluding the GDP growth rate, are non-stationary at level, meaning that they have to be transformed before the empirical estimation.

Compared to the static panel estimation where the variables at level enter the model, the stationarity problem itself is not so important in the dynamic panel setting, since the variables are by default initially transformed (differenced or lagged), and then included in the estimation procedure. The bottom part of Table A4 shows that all initially non-stationary variables at level became stationary at first difference, implying that our data set, excluding the GDP, is difference stationary.

To address the potential problem of multicollinearity, we have calculated the correlation matrix at first difference, as well as the variance inflation factor (VIF), and the results are presented in Appendix (See Table A5 and Table A6). It is in our interest to firstly check the correlation coefficients among the independent variables. Our data set exhibits a low cross-correlation, meaning that there is no multicollinearity in this case. All the coefficients are far below the predefined multicollinearity indication (about 10.501), and we can conclude that there is no multicollinearity problem. In addition, the VIF results strongly back up this finding, since only VIF value greater than 10 merit further investigation, which corresponds to the tolerance lower level of 0.1 for $1/VIF$. Our VIF results are far from both the upper and lower tolerance levels,

implying that our data set is free from multicollinearity.

Before we proceed to the final GMM estimation, we have to implement one additional pre-estimation check. Our concern is related to a possible nonlinear relationship between the independent variables and public debt, but the RESET tests strongly rejects this scenario. Namely, the F-test in the second stage regression has a corresponding p-value equal to 0.994, which means that

the second stage regression does not have any explanatory power. In addition, the adjusted R-squared of -0.08711 confirms that the relationship between the independent variables and public debt is linear.

The results of dynamic panel GMM estimation for both first-difference and system GMM models are presented in Table 1, while a full set of the residual diagnostics is presented in Appendix (see Graph A7, Table A8 and Table A9).

Table 6
GMM results (FD GMM vs. System GMM)

| [A]: First Difference GMM | | | | |
|---------------------------|-------------|---------------------------|-------------|-----------|
| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
| C | 4.446889 | 3.983793 | 1.116245 | 0.2688 |
| Δ DEBT (lagged) | 0.772599 | 0.077341 | 9.989528 | 0.0000*** |
| GDP | -0.970394 | 0.326872 | -2.968723 | 0.0042*** |
| SOC | 1.173704 | 0.216113 | 5.430972 | 0.0000*** |
| INF | -0.589125 | 0.286231 | -2.058215 | 0.0435** |
| UNEMP | 0.201580 | 0.273871 | 0.736039 | 0.4652 |
| INTPAY | 0.493646 | 0.193085 | 2.556633 | 0.0132** |
| Adjusted R-squared | 28.361154 | Mean dependent var | 1.599697 | |
| S.E. of regression | 2.282485 | S.D. dependent var | 4.957919 | |
| Instrument rank | 24 | Akaike info criterion | 6.746095 | |
| J-statistic | 16.314701 | Probability (J-statistic) | 0.570601 | |
| [B]: System GMM | | | | |
| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
| C | 1.804084 | 2.539962 | 0.710280 | 0.4802 |
| Δ DEBT (lagged) | 0.878097 | 0.060487 | 14.51703 | 0.0000*** |
| GDP | -1.305711 | 0.530488 | -2.461341 | 0.0167** |
| SOC | 0.983279 | 0.038554 | 25.50381 | 0.0000*** |
| INF | -0.558562 | 0.218195 | -2.559929 | 0.0128** |
| UNEMP | 0.385841 | 0.406969 | 0.948085 | 0.3468 |
| INTPAY | 0.243185 | 0.125565 | 1.936720 | 0.0571* |
| Adjusted R-squared | 34.52166 | Mean dependent var | 1.599697 | |
| S.E. of regression | 2.14471 | S.D. dependent var | 4.957919 | |
| Instrument rank | 29 | Akaike info criterion | 5.850570 | |
| J-statistic | 30.587215 | Probability (J-statistic) | 0.13327652 | |

Note: *** Significance at 1%; ** Significance at 5%; * Significance at 10%

Source: Authors' calculation

The results are quite instructive, both in terms of the direction and magnitude of the effects, and in terms of policy implications. It is necessary to emphasize that the two dynamic models provide very similar results, though there are some differences in the magnitude of the impact. Also, unemployment proved to be statistically insignificant, contrary to the findings of Castells-Quintana & Royuela (2012). This can be explained by an unstructured labor market where the number of the unemployed does not correspond to social benefits, since many unemployed people lose their social benefits within a year. Also, many officially unemployed people work on the black market, as a consequence of a social climate dominated by rising poverty and inequality, thus contributing to the economic activity and budget revenues indirectly, primarily through daily consumption. Finally, the methodology that measures the unemployment rate in these countries has undergone significant changes during the observed period, and it is still considered unreliable in many cases.

As we can see in Table 1, all other independent variables, excluding the unemployment rate, have statistically significant effects on public debt. Specifically, the one-period lagged debt is highly significant for debt changes, since we have a well-known negative spillover effect between previous debt levels and incremental debt dynamics. It means that the accumulated past debt determines the future debt increase, implying that public debt is a self-generating process. Accordingly, the accumulated debt is one of the biggest "enemies" of the current fiscal balance and future debt dynamics. Also, GDP growth rate is negatively related to public debt changes: a one percent increase in the incremental growth rate leads to a 0.97% or 1.31% decrease (depending on the model) in the debt-to-GDP ratio. This finding is congruent with the results of many other studies

(for example, Budina and Fies, 2005; Cherif and Hasanov, 2012; Casadio, Paradiso & Bhaskara, 2012; Matosec, 2015; Swamy, 2015; Bittencourt, 2015).

According to the econometric results, social costs have procyclical debt effects, meaning that a 1% increase in social expenditures leads to a 1.17% or 0.98% increase (depending on the model) in the debt-to-GDP ratio. This evidence is in line with the results of Chang, Lee, Geng and Ning (2016), but contradicts the results of Lee (2017). Furthermore, inflation does contribute to debt reduction, and a 1% increase in inflation leads to a negative incremental change in the debt-to-GDP ratio for 0.59% or 0.56%, depending on the specification. We find the same conclusion in the comparable studies of Marion (2011) and Hall and Sargent (2010), while Forslund, Lima and Panizza (2011) do not find inflation to be statistically significant. Finally, interest payments for the previous debt have a positive and significant effect on the debt-to-GDP change, supporting our previous assumption that debt is a self-fuelling process. Specifically, a 1% increase in interest payments reduces the incremental debt-to-GDP change by 0.49% or 0.24% depending on the model.

Comparatively speaking, both models suggest similar conclusions, and both passed the test of over-identifying restrictions. Namely, we fail to reject the null hypothesis of the validity of the restrictions, which suggests that our instrumental variables (lagged dependent variable) are valid. However, the AIC favors the system GMM model, since it has a slightly lower amount of information lost, compared to the first difference GMM. In addition, the number of instruments in both specifications is 4 and 5, respectively, since the number of instruments is collapsed using the second-lag instruments. Accordingly, we have a plausible estimation of the GMM coeffi-

cients, according to the recommendations by Roodman (2009).

As for the residual diagnostics, Graph A7 in Appendix presents the histogram and supporting normality test of the residuals (Jacque Berra). Accordingly, the residuals approximately follow normal distribution, since we failed to reject the null hypothesis. Additional residual checks (between different lags and within the cross-sections) are presented in Appendix (see Table A8 and Table A9). The results (Table A8) suggest no serial correlation between the residuals, where we have the same conclusion for both test specifications: (a) at each lag (1-3 lags), and (b) between lag 1 and lag 3. Consequently, the autocorrelation function is located within the independence upper and lower bands. In addition, the residual cross-section dependence test's results (see Table A9) support the null hypothesis, implying no residual cross-sectional dependence. Finally, the A-B autocorrelation test suggests that the first-differenced errors are first-order serially correlated (z -stat = -4.3676; p -value = 0.0000), which is natural for the design of the model. On the other hand, there is no significant evidence of a serial correlation in the first-differenced errors at order 2 (z -stat = -0.34114; p -value = 0.7330), since we failed to reject the null hypothesis. Putting these diagnostic tests together, we conclude that the GMM residuals are independent and identically distributed, which makes our GMM estimation consistent, and the results plausible.

Though the results suggest some important causalities, they cannot be taken as a general recipe due to the pronounced heterogeneity of the countries included in the sample. Moreover, the countries have different current fiscal positions, and not all of them have reached the stated debt-to-GDP threshold of 60%. Accordingly, these countries must follow different fiscal strategies, since some of them recorded deficit in

2018 (for example, BIH and Serbia), while others have more favorable current fiscal positions. According to the World Bank (2019), "*public debt-to-GDP ratios fell in Serbia, Bosnia and Herzegovina and Albania in 2018. Furthermore, reducing risks to fiscal sustainability requires reining in pension spending, better controlling state-owned enterprise (SOE) debt, increasing discipline in local government financial management, and improving the efficiency of public spending and tax collection.*" In addition, different fiscal and economic situations across the sample dictate different policy actions and potential remedies. According to Koczan (2015), fiscal strategies are country-specific, mainly oriented toward fiscal consolidation, tax compliance, expenditure reforms, and fiscal adjustments.

CONCLUSIONS AND IMPLICATIONS

The paper investigates the most important drivers of public debt in the selected Western Balkan countries, with an emphasis on the effects of GDP growth and social expenditures. We employ the dynamic GMM estimator, both first difference and system GMM, in a balanced panel fashion, covering the period 2006-2017. The descriptive analysis shows that public debt, measured as the debt-to-GDP ratio, varies significantly across the sample, while the GDP growth rate in the region is much less volatile. In addition, other indicators also suggest that the country-specific factors dominate the time-trend effect, implying that we are dealing with quite a heterogeneous sample, though countries had a similar transitional history and post-transitional development trajectory.

The econometric results support a significant and negative relationship between GDP growth and public debt, suggesting that a proactive economic policy that fosters economic growth reduces public debt.

This confirms the well-known fact that only long-term and sound growth driven by the export-oriented economy allows governments to control public debt effectively. In addition, social expenditures are negatively related to public debt, implying that a so-called welfare state is costly in many dimensions. Namely, it requires significant initial amounts and, since they are "sticky" and difficult to be reduced, accumulated social benefits will also result in debt accumulation, with significant final budget spending, social costs and pressures.

More importantly, social protection, as one of the key sources of income for the majority of households, has the highest share in social expenditure, up to 40 % of the total spending. This component has risen especially during the crisis, which was mainly owed to the rise in unemployment. Extensive social assistance programmes give workers disincentives to work as they rely on the state for support and this help was frequently misused. On the other hand, early retirement is another factor that is adding to fiscal pressures. Pensions, together with a social assistance, present a dominant part of household incomes in analysed countries. Even though most of the countries are conducting reforms of their fiscally unsustainable pension systems, pension outlays are still very high. These trends undermine the countries' efforts to use all of their productive capacities in order to achieve a faster economic growth. Due to insufficient domestic accumulation of capital for investment and for financing growing social needs, these countries resort to public debt creation. Having previous considerations in mind, these countries have to implement a large-scale public sector reform, focusing on implementing a market-oriented approach that will favor efficiency.

The study also shows that a high inflation environment reduces public debt, but

it is important to bear in mind that higher inflation imposes huge social costs as well. In addressing this issue, our thoughts are in favor of a low and stable inflation environment, since economic theory suggests that price stability is considered an important precondition for a sustainable economic growth in the long-run. Finally, interest payments push the debt-to-GDP up, since accumulated public borrowing creates ex-post negative budget effects, and it ends up with additional borrowings. A potential remedy is not only to rationalize current budget spending, but also to implement debt repayment whenever the interest rate drops. That way, the total fiscal burden will be lowered, while current budget pressures for further borrowing will be reduced.

Overall, an economic policy that combines pro-growth policy instruments and the structural social reforms would contribute significantly to an efficient public debt management. It is also worth mentioning that an appropriate financial management of the current fiscal deficit and interest payments would create an additional push for sustainable long-term economic progress. In addition, the Western Balkan countries are faced with a typical trade-off. Namely, if they want to maintain and/or improve their welfare setting, they also have to count on an increasing debt-to-GDP ratio that would in the medium term cause future social expenditure to decrease, in order to maintain a sustainable debt in the long run. Thus, future developments require a balanced approach that would protect social benefits, but also allow governments to repay debts timely. Having in mind all the considerations, it is obvious that further economic and fiscal reshuffling is necessary, since all the countries gravitate to the EU membership that implies standardized social and fiscal settings.

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Sažetak

DINAMIKA JAVNOG DUGA U ZEMLJAMA ZAPADNOG BALKANA: JESU LI SOCIJALNI IZDACI I GOSPODARSKI RAST BITNI?

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Cilj ovog rada je ispitati odrednice javnog duga u zemljama zapadnog Balkana, s naglaskom na učinke gospodarskog rasta i socijalnih izdataka. Studija pokriva razdoblje od 2006. do 2017. godine i primjenjujemo dinamičku panel analizu, korištenjem diferenciranog i sistemskog GMM procjenitelja. Rezultati sugeriraju da inkrementalna promjena rasta značajno smanjuje dug, dok socijalni izdaci podižu omjer duga prema BDP-u. Također, postoji negativan odnos između inflacije i duga, dok otplaćivanje kamata na prethodno zaduživanje dodatno povećava javni dug. Konačno, nezaposlenost u ovom modelu nije statistički značajna. Glavna implikacija studije je da kreatori politika u ovim zemljama trebaju favorizirati politike usmjerene na rast i socijalne reforme orijentirane na djelatnost, kako bi javni dug bio održiv na duže staze.

Ključne riječi: dug i rast, socijalni izdaci, zapadni Balkan.

Appendix

Table A1
Descriptive Statistics

| | DEBT | DEBT[L1*] | GDP | SOC | INF | UNEMP | INTPAY |
|--------------|---------|-----------|---------|---------|---------|---------|--------|
| Mean | 42.9832 | 42.05136 | 2.8264 | 11.2560 | 2.9747 | 22.9644 | 1.3694 |
| Median | 41.8600 | 40.87000 | 3.0869 | 13.4000 | 2.2000 | 22.6735 | 1.0000 |
| Maximum | 75.9000 | 75.90000 | 10.6579 | 18.0900 | 12.4100 | 36.0250 | 3.5000 |
| Minimum | 6.1300 | 6.130000 | -5.7951 | 5.2000 | -2.4200 | 13.0600 | 0.0000 |
| Std. Dev. | 18.5836 | 18.25489 | 2.6354 | 4.4886 | 3.1926 | 6.6450 | 1.0262 |
| Skewness | 0.1909 | 0.219534 | -0.4098 | 0.0095 | 1.0655 | 0.1624 | 0.6739 |
| Kurtosis | 1.9695 | 2.049926 | 4.7507 | 1.3812 | 3.7826 | 1.7737 | 2.0945 |
| Observations | 72 | 66 | 72 | 72 | 72 | 72 | 72 |

* one-period lagged debt

Source: Authors' calculation.

Table A2
Variance and Mean Decomposition

| Variable | Dimension | Mean | Std. Dev | Min | Max | Obs. |
|-----------|-----------|----------|----------|----------|----------|--------|
| DEBT | overall | 42.98319 | 18.58355 | 6.13 | 75.9 | N=72 |
| | between | | 16.46038 | 19.28583 | 63.7075 | n=6 |
| | within | | 10.78802 | 21.55153 | 65.05153 | T=12 |
| DEBT[L1*] | overall | 42.05136 | 18.25489 | 6.13 | 75.9 | N = 66 |
| | between | | 16.14567 | 18.90636 | 63.06273 | n = 6 |
| | within | | 10.61429 | 22.23318 | 65.73318 | T = 11 |
| GDP | overall | 2.826403 | 2.635404 | -5.7951 | 10.6579 | N=72 |
| | between | | 0.702897 | 1.734164 | 3.687228 | n=6 |
| | within | | 2.554963 | -5.87994 | 10.57306 | T=12 |
| SOC | overall | 11.25597 | 4.488613 | 5.2 | 18.09 | N=72 |
| | between | | 4.665887 | 6.31 | 17.3225 | n=6 |
| | within | | 1.32289 | 9.733472 | 21.20597 | T=12 |
| INF | overall | 2.974722 | 3.192633 | -2.42 | 12.41 | N=72 |
| | between | | 1.794626 | 1.7725 | 6.575 | n=6 |
| | within | | 2.73335 | -2.48028 | 9.938889 | T=12 |
| UNEMP | overall | 22.96443 | 6.645013 | 13.06 | 36.025 | N=72 |
| | between | | 6.528806 | 14.95358 | 30.42708 | n=6 |
| | within | | 2.85216 | 16.24843 | 28.95418 | T=12 |
| INTPAY | overall | 1.369444 | 1.026225 | 0 | 3.5 | N=72 |
| | between | | 0.978628 | 0.208333 | 2.975 | n=6 |
| | within | | 0.493764 | 0.227778 | 2.927778 | T=12 |

* one-period lagged debt

Source: Authors' calculation.

Table A3
Stationarity testing (Level First difference)

| Variable | Level | | | | | | | | | | | |
|--|----------------|---------|------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|
| | Debt | | GDP | | SOC | | INF | | UNEMP | | INTPAY | |
| Method | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** |
| Null: Unit root (assumes common unit root process) | | | | | | | | | | | | |
| Levin, Lin & Chu t* | -5.0077 | 0.0000 | -5.6972 | 0.0000 | -1.3060 | 0.0958 | -1.6857 | 0.0459 | -1.7091 | 0.0437 | 0.5538 | 0.7101 |
| Null: Unit root (assumes individual unit root process) | | | | | | | | | | | | |
| Variable | Debt | | GDP | | SOC | | INF | | UNEMP | | INTPAY | |
| Method | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** |
| Im, Pesaran and SW stat. | -1.7675 | 0.0386 | -3.5941 | 0.0002 | 0.2321 | 0.5918 | -0.0140 | 0.4944 | -1.3061 | 0.0958 | 2.0094 | 0.9778 |
| ADF - Fisher Chi-square | 22.989 | 0.0278 | 34.5732 | 0.0005 | 15.2430 | 0.2284 | 10.0305 | 0.6133 | 17.4693 | 0.1328 | 2.3616 | 0.9986 |
| PP - Fisher Chi-square | 8.1435 | 0.7738 | 31.1475 | 0.0019 | 23.3722 | 0.0247 | 24.4839 | 0.0175 | 13.3450 | 0.3445 | 2.6553 | 0.9975 |
| Conclusion | Non-stationary | | Stationary | | Non-stationary | | Non-stationary | | Non-stationary | | Non-stationary | |

Table A4
Stationarity testing (First difference)

| Variable | First Difference | | | | | | | | | | | |
|--|------------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|
| | Debt | | GDP | | SOC | | INF | | UNEMP | | INTPAY | |
| Method | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** |
| Null: Unit root (assumes common unit root process) | | | | | | | | | | | | |
| Levin, Lin & Chu t* | -1.8209 | 0.0343 | -3.8839 | 0.0001 | -2.3877 | 0.0085 | -10.0760 | 0.0000 | -0.4663 | 0.3205 | -2.8100 | 0.0025 |
| Null: Unit root (assumes individual unit root process) | | | | | | | | | | | | |
| Variable | Debt | | GDP | | SOC | | INF | | UNEMP | | INTPAY | |
| Method | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** | Stat. | Prob.** |
| Im, Pesaran and S-W stat. | -2.0388 | 0.0207 | -2.7665 | 0.0028 | -1.7412 | 0.0408 | -5.6692 | 0.0000 | -1.8711 | 0.0307 | -2.2963 | 0.0108 |
| ADF - Fisher Chi-square | 25.167 | 0.0140 | 29.9745 | 0.0028 | 26.5245 | 0.0090 | 53.2860 | 0.0000 | 24.6037 | 0.0168 | 25.8684 | 0.0112 |
| PP - Fisher Chi-square | 43.305 | 0.0000 | 64.1033 | 0.0000 | 50.2797 | 0.0000 | 110.4900 | 0.0000 | 73.5955 | 0.0000 | 47.7800 | 0.0000 |
| Conclusion | Stationary | | Stationary | | Stationary | | Stationary | | Stationary | | Stationary | |

** Probabilities for Fisher tests are computed using an asymptotic Chi-square distribution. All other tests assume asymptotic normality.

Source: Authors' calculation.

Table A5
Correlation matrix (First difference; D = differenced)

| | D(DEBT) | D(DEBT[L1]*) | D(GDP) | D(SOC) | D(INF) | D(UNEMP) | D(INTPAY) |
|------------------|---------|--------------|---------|---------|---------|----------|-----------|
| DEBT | 1 | | | | | | |
| D(LDEBT)* | 0.3429 | 1 | | | | | |
| D(GDP) | 0.1327 | 0.2207 | 1 | | | | |
| D(SOC) | -0.1002 | -0.1373 | -0.3016 | 1 | | | |
| D(INF) | -0.0128 | -0.2118 | 0.2220 | -0.1475 | 1 | | |
| D(UNEMP) | -0.1806 | 0.0858 | -0.0107 | 0.1623 | -0.0311 | 1 | |
| D(INTPAY) | 0.2183 | 0.3809 | 0.1517 | -0.2744 | -0.1396 | -0.1450 | 1 |

* one-period lagged debt

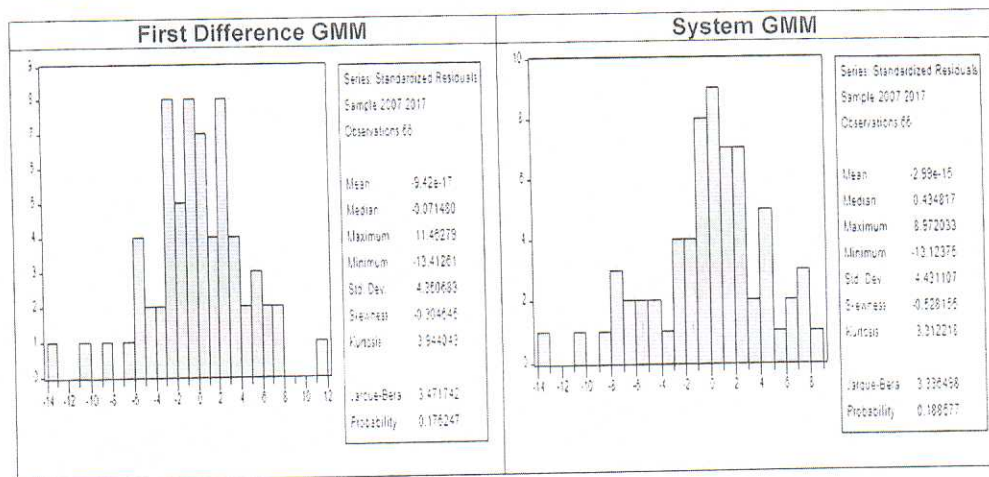
Source: Authors' calculation.

Table A6
Variance Inflation Factor (VIF)

| Variable | VIF | 1/VIF |
|-----------------|------|----------|
| UNEMP | 1.14 | 0.875590 |
| SOC | 1.10 | 0.909737 |
| GDP | 1.09 | 0.917858 |
| INF | 1.09 | 0.917858 |
| INTPAY | 1.06 | 0.943738 |
| L(DEBT)* | 1.06 | 0.943738 |
| Mean VIF | 1.09 | ----- |

Source: Authors' calculation.

Graph A7
Jacque-Berra Residual Normality Test



Source: Authors' calculation.

Table A8
GMM Residual Serial Correlation LM Tests

| [A]: First Difference GMM | | | | | [B]: System GMM | | | | |
|---|-----------|--------|------------|--------|---|-----------|--------|------------|--------|
| <i>H0: No serial correlation at lag h</i> | | | | | <i>H0: No serial correlation at lag h</i> | | | | |
| Lag | LRE* stat | Prob. | Rao F-stat | Prob. | Lag | LRE* stat | Prob. | Rao F-stat | Prob. |
| 1 | 31.61038 | 0.1696 | 1.27038 | 0.1697 | 1 | 20.86401 | 0.1838 | 1.31123 | 0.1838 |
| 2 | 27.49355 | 0.3317 | 1.10271 | 0.3318 | 2 | 20.42534 | 0.2017 | 1.28321 | 0.2017 |
| 3 | 12.17391 | 0.9851 | 0.48371 | 0.9851 | 3 | 8.687644 | 0.9257 | 0.54062 | 0.9257 |
| <i>H0: No serial correlation at lags 1 to h</i> | | | | | <i>H0: No serial correlation at lags 1 to h</i> | | | | |
| Lag | LRE* stat | Prob. | Rao F-stat | Prob. | Lag | LRE* stat | Prob. | Rao F-stat | Prob. |
| 1 | 23.0672 | 0.1119 | 1.45033 | 0.112 | 1 | 18.59192 | 0.2904 | 1.16683 | 0.2905 |
| 2 | 18.61755 | 0.289 | 1.16712 | 0.289 | 2 | 20.81829 | 0.1856 | 1.30923 | 0.1857 |
| 3 | 20.57106 | 0.1956 | 1.29125 | 0.1956 | 3 | 7.318958 | 0.9666 | 0.45462 | 0.9666 |

*Edgeworth expansion corrected likelihood ratio statistic.

Source: Authors' calculation.

Table A9
Residual Cross-Section Dependence Test

| Test | Statistic | Prob. | Test | Statistic | Prob. |
|--|-----------|--------|-------------------|-----------|--------|
| <i>Null hypothesis: No cross-section dependence in residuals</i> | | | | | |
| Breusch-Pagan LM | 14.26053 | 0.5059 | Breusch-Pagan LM | 13.76523 | 0.5434 |
| Pesaran scaled LM | -0.13501 | 0.8926 | Pesaran scaled LM | -0.22544 | 0.8216 |
| Pesaran CD | 0.237921 | 0.8119 | Pesaran CD | 0.70906 | 0.4783 |

Source: Authors' calculation.

BIOGRAFIJA

Milena Radonjić je rođena 04.12.1987.godine u Podgorici, gdje je završila osnovnu i srednju školu. Ekonomski fakultet u Podgorici upisuje 2006.godine, gdje na smjeru Bankarstvo i finansije diplomira 2010.godine sa prosječnom ocjenom 10. Iste godine upisuje magistarske studije na Ekonomskom fakultetu i magistarsku tezu, pod nazivom „Politička ekonomija nezavisnosti centralne banke”, brani 2012.godine, pod mentorstvom prof.dr Miomira Jakšića (redovnog profesora Ekonomskog fakulteta Univerziteta u Beogradu). Doktorske studije na Ekonomskom fakultetu u Podgorici upisuje 2013.godine.

Na Ekonomskom fakultetu je angažovana kao saradnik u nastavi za oblast Makroekonomija od 2011.godine, i to na predmetima: Osnovi ekonomije, Privredni sistem, Tržište rada, Teorija i analiza ekonomske politike i Ekonomija javnog sektora.

U cilju usavršavanja boravila je na brojnim eminentnim fakultetima i institucijama među kojima se posebno izdvajaju: Universität Mannheim, Njemačka, 2016.godine; IEDC Bled School of Management, Slovenija, 2014.god.; Wirtschaftsuniversität Wien, Austrija, 2009.god.; London School of Economics and Political Science (LSE), Velika Britanija, 2008.god. Takođe, dobitnica je brojnih nagrada tokom studiranja, između ostalog i nagrade Univerziteta Crne Gore za najboljeg studenta Ekonomskog fakulteta kao i nagrade Glavnog grada Podgorice za najboljeg studenta 2010.godine.

Aktivno je učestvovala u mnogim međunarodnim aktivnostima kao i u izradi značajnih projekata koje je vodio Ekonomski fakultet u Podgorici (jedan od njih je „*Neformalna zaposlenost u Crnoj Gori – procjene obima i efekata*”, Ekonomski fakultet Podgorica, 2013).

Autor je većeg broja naučnih radova, a neki od najznačajnijih navedeni su u nastavku:

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ЈАКШИЋ ДР МИОМИР

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Рођен у Београду 1954. Године 1976. завршио Економски факултет и Факултет политичких наука Универзитета у Београду. Магистрирао (1979) и докторирао (1982) на Економском факултету у Београду. Године 1976. запослио се као асистент-приправник на предмету „Развој економске мисли“ на Економском факултету у Београду. Године 1993. изабран за редовног професора на истом предмету. Предавао на Економском факултету у Брчком, Крагујевцу, одељењима Економског факултета у Шапцу и Ужицу.

На Економском факултету у Београду на основним студијама предаје предмете „Основи макроекономије“, „Макроекономска анализа“, и „Историја економије“, на мастер студијама предмет „Макроекономија: анализа и политика“. Руководи међународним мастер курсом „Макроекономија у привредама у транзицији“, Економски факултет у Београду и универзитет у Ници. По позиву држао предавања у Белгији, Британији, Јапану, Пољској и Грчкој. Био члан редакције часописа „Пословни круг“, научне секције СЕЈ-а, регионални уредник листа „World minded easterner“, „На рубезе веков“ (Београд-Москва), „Економика“, „Марксистичка мисао“, „Марксизам у свету“, „Проблеми савременог капитализма“ (Берлин), председник „Друштва за проучавање европских идеја“ са седиштем у Београду.

Био је сарадник „Института за европске студије у Београду“. Професор Јакшић је главни редактор Економске и пословне енциклопедије и Економског речника. Био шеф Катедре за економску теорију и анализу на Економском факултету, Београд. Од 1994-96. био је продекан Економског факултета у Београду. Године 1996-7. био је Декан Економског факултета у Београду. У периоду 1998-2001. био Заменик председника Одбора за друштвене науке Министарства за науку и технологију Србије. Био је потпредседник Асоцијације економских факултета Југоисточне Европе са седиштем у Солуну. У периоду од 2004. до 2012. године био је председник Савета Економског факултета у Београду.

Био је члан Савета Агенције за енергетику Републике Србије. Члан Научног друштва економиста Србије, Академије економских наука, Научног друштва Србије, Одбора за акредитацију Министарства науке Србије. Бави се економском теоријом, развојем економске мисли, историјом економије, азијским начином производње, макроекономском теоријом и политиком. Са проф. др И. Стојановићем главни је редактор „Економске и пословне енциклопедије“ (II тома, 1994). Приредио је шест тематских зборника часописа „Марксизам у свету“ и превео четири књиге из области економије.

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2. Radovi na Kobsonu, Tompson Roytersu i Scopusu.

1. "The Theory of Modes of Production and Changes in International Economic Relations", Journal of Contemporary Asia, 3/1985.

Lista SSCI

2. "Exploitation in the model of Capitalism and in the Asiatic Mode of Production", Journal of Contemporary Asia, 2/90.

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Lista SSCI i SCOPUS baza

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Lista SSCI i SCOPUS baza

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31-03-1993 19____ год.
БЕОГРАД

/IM

Na osnovu čl.83. i 86. Zakona o univerzitetu ("Sl.glasnik Republike Srbije" br.54/92), Izorno veće Ekonomskog fakulteta Univerziteta u Beogradu, na sednici održanoj 24.03. 1993.godine, donelo je

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b i r a s e

u zvanje i na radno mesto redovnog profesora, na neodredjeno vreme za predmet Razvoj i savremena ekonomska misao.

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- Potpredsjednik Vlade Crne Gore za evropske integracije (10.11.2006. - 9.6.2009) (prva žena potpredsjednica Vlade Crne Gore);
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 - Glavni pregovarač za pristupanje Svjetskoj trgovinskoj organizaciji (2004-2010), završeni multilateralni pregovori i 10 bilateralnih pregovora;
 - Ministar resorno nadležan za pregovore CEFTA 2006, pregovori uspješno okončani, Sporazum parafiran 9. novembra 2006.g.;
 - Nacionalni koordinator za IPA fondove (NIPAC, 2008-2010),
 - Predsjednik Nacionalne komisije za borbu protiv korupcije i organizovanog kriminala (2007-2010),
 - Šef radnih grupa za pripremu više zakonskih propisa (spoljna trgovina, slobodne zone, strane direktne investicije, konkurencija) i povezanih podzakonskih akata,
 - Koordinator pripreme prvog Nacionalnog programa pristupanja Crne Gore Evropskoj uniji 2008-2012,
 - Koordinator i koautor pripreme Strategije podsticanja stranih direktnih investicija (2006) i Strategije podsticanja izvoza (2006);

- Rukovodilac radne grupe za pripremu Zakona o spoljnoj trgovini (2004), Zakona o slobodnim zonama (2004) i povezanih podzakonskih akata.
- Član HERE tima za Crnu Goru, High Education Reform Expert for EACEA (2014-2017)
- Član Savjeta za naučno-istraživačku djelatnost (2017-)
- Evaluator Research Executive Agency, EC, Brisel (REA) za program Horizont 2020, oblast međunarodni ekonomski odnosi (2017 -)
- Član Odbora za ekonomske nauke **CANU**

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Ostali angažmani

- predsjednik i osnivač NVO „Makromanagement centre“ (2000-2004)
- jedan od osnivača i predsjednik NVO „Crnogorska panevropska unija“ (2016-)
- član Udruženja ekonomista Crne Gore

Naučno-istraživačka djelatnost

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4. Naučno-istraživački projekti (izbor)

1. „**Uticaj sankcija na ekonomiju u društvo SRJ u međunarodnoj perspektivi**“, **Evropski centar za mir i razvoj, 1996-97; autor priloga o uticaju sankcija na pomorsku privredu Crne Gore**; / Project: Effects of the sanctions on economy and society of FR Yugoslavia in the international perspective, Area of expertise: effect of the sanctions on the maritime industry in Montenegro; **Recently published: The Impact of Sanctions on the Economy and Society of the Federal Republic of Yugoslavia in an International Perspective** / edited by Dragoslav Avramović, Negoslav P. Ostojić. - Beograd: European Center for Peace and Development (ECPD), 2016 (Beograd: Graficom-uno). - 229 str. ISBN 978-86-7236-097-4; 339.545(497.1); [COBISS.SR-ID [221319948](#)]; www.ecpd.org.rs/pdf/2015/books/2016/2016_the_impact_of_sanction_web.pdf
2. „**Ekološko-ekonomski aspekti razvoja Crne Gore**“, nacionalni projekat, Ministarstvo prosvjete i nauke, 1998-2000, dvije faze, član tima;
3. „**Regionalni razvoj Crne Gore**“ 1998-2000, Sekretarijat za razvoj RCG, rukovodilac projekta;
4. „**Program transformacije i restrukturiranja komunalnog sektora u Crnoj Gori**“, Ministarstvo uređenja prostora, 1999, član tima;
5. „**Strategija razvoja i redukcije siromaštva, PRSP**“, Vlada Crne Gore, Svjetska banka, UNDP, 2002 – 2003, rukovodilac projekta i autor priloga;
6. „**Crna Gora u XXI stoljeću - u eri kompetitivnosti**“, **CANU**, 2009-2010 (autor priloga i koordinator podprojekta: Integracija u evropske i evroatlanske strukture);
7. Lifelong learning programme, Activity 1, JEAN MONNET Chairs(Sub-action): **European Economic Integration Study on the Faculty of Economics in Montenegro, 2012-2015** (rukovodilac projekta – Katedra za evropske ekonomske integracije na Ekonomskom fakultetu, Jean Monnet professor);
8. **Konkurentnost privrede Crne Gore – kako biti medju 50 najkonkurentnijih zemalja svijeta**, 2012-2015, nacionalni projekat Ministarstva nauke, rukovodilac projekta;
9. **Varieties of Democracy, V-dem project, Measuring Degrees and Types of Democracy**; © 2013 by Michael Coppedge, Staffan Lindberg, John Gerring, the University of Notre Dame Center for Research Computing, the University of Gothenburg Department of Political Science, and the Helen Kellogg Institute for International Studies, Sweden – Country expert for Montenegro in 2013, 2016 & 2018;
10. **Nacionanli ekspert za Crnu Goru, Nacionalni akcioni plan za Crnu Goru za Strategiju Jugoistočna Evropa 2020** - Preparation of Montenegrin National Action Plan 2014-2015 for implementation of the SEE 2020 Strategy (adopted by MN Government in June 2015) - input for Baseline Report for the South East Europe 2020 strategy, Regional Cooperation Council and Pi Consulting, 2014 – national expert for Montenegro;
11. **Rukovodilac bilateralnog projekta mobilnosti istraživača Crna Gora – Kina 2014-2015**, Ministarstvo nauke; (Raising competitiveness through cooperation: a comparative study on the agricultural science and technology innovation, diffusion and communication system between China and Montenegro, Ekonomski fakultet, UCG i

- Jiangnan University, researcher of the State Key Laboratory of Food Science and Technology, Wuxi City, PR China);
12. **Rukovodilac bilateralnog projekta mobilnosti istraživača Crna Gora – Slovenija 2014-2015**, Ministarstvo nauke (Ekonomska i politička saradnja između Crne Gore i Slovenije kao sredstvo jačanja nacionalne konkurentnosti, Ekonomski fakultet, UCG i Fakulteta za društvene vede, Univerza v Ljubljani);
 13. **Nacionalni konsultant za Crnu Goru i region – Izjava o prihodima i imovini u praksi** - Preparation of the Draft National Action Plan for the implementation of main recommendations contained in the ReSPA “Comparative Study on Income and Assets Declarations in Practice” report, (2013), in 2014, ReSPA, Regional School for Public Administration; - National expert for Montenegro;
 14. **Nacionalni konsultant za Crnu Goru i region – Izjava o prihodima i imovini u praksi** - Preparation of Montenegrin final report “Implementation of recommendations of ReSPA Regional Study on Incomes and Assets Declaration” and preparation of Summary report for six Western Balkans countries, 2015, ReSPA, GDSI;
 15. **Procjena zahtjeva EU politika i pravne tekovine EU (acquis) u Nacionalnoj strategiji za integrisano upravljanje obalnim područjem (NSIUOP)** - The assessment of the requirements of the EU policies and acquis in the National Strategy for Integrated Coastal Zone Management, UNDP, 2015;
 16. **Rukovodilac bilateralnog projekta mobilnosti istraživača Crna Gora – Austrija 2015-2016**, Ministarstvo nauke (Podizanje konkurentnosti kroz naučnu saradnju u okviru Strategije jugoistočna Evropa 2020: radna mjesta i prosperitet u evropskoj perspektivi; Ekonomski fakultet, UCG i University of Graz, The Centre for Southeast European Studies);
 17. **Ekspert za pripremu Akcionog plana za transpoziciju EU Direktive o uslugama** - Preparation of an Action Plan for transposition of the Directive on services in the internal market 2006/0123/EC; Comprehensive mapping of all the authorisation procedures; Preparation of the first report on implementation of AP for transposition of the SD; Comparative analysis/report on the services covered by the Service Directive and those already identified and covered by GATS- national expert for Montenegro, GIZ, 2014-2016;
 18. **ReSPA’s Regional Seasonal School on European Integration**, ReSPA, Danilovgrad, October 2015;
 19. **Nacionalni ekspert za strategije koje se odnose na konkurentnost i ekonomsko upravljanje** - “Promotion of EU Integration through Regional Cooperation: Strengthening Effective Policy Coordination in the Framework of EU Accession and SEE 2020”, member of the expert team for economic governance assessment, CEPS, Centre for European Perspective, Mengeš, Slovenija & ORF, GIZ;
 20. **Vodeći ekspert u pripremi Nacionalne strategije održivog razvoja Crne Gore do 2030 (NSOR)** – autor priloga za ekonomske resurse i finansiranje za održivi razvoj, UNDP, Vlada Crne Gore, 2015-2016;
 21. **Nacionalni ekspert za Crnu Goru za pitanja trgovine** - Analysis and policy recommendations of trade facilitation (TF) and non-tariff measures (NTM) in beverages and auto-parts supply chains in Montenegro as part of the regional project "Addressing Market Access Barriers in Selected Supply Chains in CEFTA: Analysis and elaboration of policy recommendations", UNCTAD, 2015-2016;
 22. **Reforma javne uprave u Bosni i Hercegovini**, autor tzv. **Eksterne analize o evropskim integracijama i ekonomskom upravljanju u kontekstu reforme javne uprave**, Ured za reformu javne uprave, Konsultant za PAR i ekonomska pitanja, PARCO & Lucid Linx, Sarajevo, 2016;
 23. **Konsultant za IPA programiranje i nacionalnu razvojnu politiku** - Assessment of a level of coherence between national development priorities with the strategic programming of the IPA II in the SEE countries (WB 6), GIZ, 2016;

24. **Vodeći ekspert za optimizaciju javne uprave** – koordinator i ko-autor studije: „The Comparative study with baseline analysis on the optimization of public administration in Western Balkan region“, ReSPA, 2016;
25. **Vodeći ekspert za pripremu analitičkog dokumenta o modelima upravljanja javnom upravom u zemljama regiona** - the Analytical paper on managing of implementation of PAR strategies in Western Balkan region, ReSPA; 2016;
26. **Ekspert za finansijsku analizu Pariskog sporazuma i Namjeravnog nacionalnog doprinosa smanjenju GHG emisija za 30% u odnosu na 1990 godinu, a do 2030. godine** – socio-ekonomska analiza izabranih investicija, UNDP, Ministarstvo održivog razvoja i turizma, 2017;
27. **Ekspert za evaluaciju projektnih predloga u okviru poziva za Horizont 2020**, za oblast međunarodnih ekonomskih odnosa; Preparation of evaluation reports for specific call in 2017; Development of the consensus report; Participation on final, central panel meeting in Brussels; - Research Executive Agency (REA), Brussels, 2017;
28. Predavač na ReSPA ljetnjoj školi o **procesu pregovora sa EU sa posebnim fokusom na poglavlja 23 i 24**, the ReSPA Summer School on Accession Negotiations with focus on chapters 23 (Judiciary and Fundamental Rights) and 24 (Justice, Freedom and Security), ReSPA, 2017;
29. **Regionalni konsultant za UN agendu 2030** - Guest speaker/resource person at the UNCT 2017 Retreat UN Country Team Albania, for the UN agenda 2030, Dures, Albania, 2017;
30. Ko-autor izrade studije sa MAPS timom UN: „**Building a sustainable future for Montenegro through the EU accession process and the sustainable development goals**“, UNDP, Montenegro, 2017;
31. Erasmus+, Jean Monnet Action, „**Communicating Europe in Pan-European Societies - CEPES**“ 2017-2019, Montenegrin Pan-European Union, Podgorica, rukovodilac projekta, Jean Monnet professor;
32. **Nacionalni ekspert za Crnu Goru za pitanja trgovine** - Project “Support to Facilitation of Trade between CEFTA Parties”, Sub-activity “Classifying, analysing and cross-checking of NTMs according to the EU Acquis, Comonent 1. Harmonization of norms and practices”, GIZ/ORF, February – July 2018;
33. **Vodeći ekspert za podrški pripreme Nacionalnog plana optimizacije državne uprave u Crnoj Gori** – „Support the Preparation of Plan for Optimization of State Administration in Montenegro“, ReSPA, Mart – June 2018;

5. Uvodno, plenarno predavanje na sastancima sa medjunarodnim učesnicima

- Djurovic G., »**Opportunities for the small and the large in politics – the view from Montenegro**«, speech, **European Forum Alpbach 2004**, Political Symposium - **Boundaries and Beyond**, 29. August - 01. September 2004, Alpbach , Austria;
- Djurovic Gordana, „**Located Montenegro on the new map of Europe – Possibilities for Austrian investors in Montenegro**“, uvodno predavanje na Medjunarodnom simpozijumu o Crnoj Gori, Wirtschaftskammern Osterreichs, Wien, March 14, 2005;
- Djurovic G., „**Ein Beitrag Zur Prävention Neuer Regionaler Krisen: Die Europäische Perspektive Montenegros**“, Europäisches Forum, Symposium: „Die Stärken und Schwächen Europas“, Alpbach, Tirol, Österreich, 30.8.2005;
- Djurović G., „**Evropske integracije Crne Gore**“, govor na medjunarodnoj konferenciji „Kroz saradnju do evropskih integracija“, u organizaciji Direkcije za evropske integracije, Sarajevo, 15-16.9.2006;
- Djurovic G., „**European Integration of Montenegro and Region**“, speech on international conference “Crans Montana forum in Albania: Albania and South Eastern Europe on the way towards European Union”, 10 May 2007, Tirana, Albania;

- Djurovic G., „**European Integration of Montenegro**“, speech on International Conference „50 years of The Treaties of Rome and future of the Western Balkans“, Konrad Adenauer Stiftung, Sarajevo, 13. April 2007;
- Djurovic G., „**Challenges of Euro-Atlantic Integration In Montenegro**“, speech on International conference “Croatia Summit 2007: Europe’s new South“, Session: „**An Outlook into the Future: Year 2008 and beyond**“, Governemnt of Croatia, Dubrovnik, 6/7 July 2007;
- Djurovic G., „**Promoting main principles of European integration in western Balkan region through regatta approach – view from Montenegro**“, The 63rd European Forum Alpbach 2007, Reform symposium: Emerging markets – emerging partners“, 20-22 August 2007, Alpbach, Austria;
- Djurovic G., „**Economic and Fiscal Programme for 2007 in the light of further Montenegrin European integration plan**“, speech on Policy Summit : “Balkans crossroads: The policy challenges ahead“, Session II: How encouraging are the Balkan region’s economic indicators?”, organised by: Friends of Europe, the Konrad Adenauer Stiftung, the Constantinos Karamanlis Institute for Democracy and Gallup Europe, Brussels, December 4, 2007;
- Djurovic G., „**Communicating Europe: French perspective on Enlargement**“, organised by European Stability Initiative (ESI), 16-17. April 2008, Paris;
- Djurovic G., „**Return to Europe II: The next 18 months / Where will SEE enlargement be by the end of Swedish presidency in 2009**“, speech on International conference: ““The EU and South East Europe In 2008: Is all still well? Burning issues and difficult questions”, organized by CIDOB Foundation, the Open Society Institute Fellowship Program (OSI), European Stability Initiative (ESI), Friedrich-Ebert-Stiftung (FES, Madrid), Barcelona, 22 – 23. September 2008;
- Djurovic G., “ **Questions of economic integration and regional cooperation: view from Montenegro**“, speech on International conference “The vision of European Serbia”, organized by European movement in Serbia, , the Open Society Institute Fellowship Program (OSI), European Stability Initiative (ESI), Friedrich-Ebert-Stiftung (FES, Madrid), Belgrade, 29 May 2009;
- Djurovic G., „**Montenegro and its way into the European Union: Challenges and Perspectives**“, speech on conference organized by Friedrich Ebert Stiftung, Berlin, 4. May, 2009.
- Djurovic G., “The Politics of Economic Crisis: Redefining Economic and Geopolitical Landscapes in Europe and Eurasia”, panel D: “**Economic Challenges in the Western Balkans**“, Bled Strategic Forum 2009, 30 – 31. august 2009; Conference report (ISBN 978-961-92173-9-9)
- Djurović G., „**Euroatlanske integracije Crne Gore**“, izlaganje na međunarodnoj konferenciji „Novi strateški koncept NATO-a: Izazovi i mogućnosti“, Slano, Republika Hrvatska, 03 - 07. septembar 2009;
- Djurovic G., „**IPA fund in Montenegro**“, speech on International conference „Regional conference on decentralized management of IPA funds“, EU Delegation in Albania and Government of Albania, 18. May 2010, Tirana. Albania;
- Djurovic G., „**Montenegrin experience in translating European legislation**“, speech on International conference „Let’s speak European“, organised by Government of Serbia, Belgrade, 19. May 2010;
- Djurovic G., »**Lobbying for a faster integration track of Montenegro**«, speech on Networking Seminar 2010: Lobbying and Networking in the European Union, European forum Alpbach, Austria, 29 August 2010;
- Djurovic G., “**Key priority areas in the post opinion period and IPA: The case of Montenegro**“, speech on “IPA 2010 Conference: Sustainable results and impacts”, European Commission, Brussels, 6.12.2010;

SPEECH on the WTO Ministerial Conference - "Support the future WTO members and improve the rules: case of Montenegro", The Seventh Ministerial Conference, WTO, December 2nd, 2009, Geneva;

Ciklus predavanja – tribina: Društvena misao Crne Gore, – **Djelo prof. dr Rista Vukčevića**, Crnogorska akademija nauka i umjetnosti, CANU, 24.10.2017.

3. PEDAGOŠKA DJELATNOST

Udžbenici

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- Grupa autora (G.Djurovic red.), „**Evropska unija**“, udžbenik za završnu godinu osnovnih škola, izborni predmet, Zavod za udžbenike i nastavna sredstva, Podgorica, 2010 (ISBN 978-86-303-1432-2); udžbenik za srednje škole; i **Priručnik za nastavnike**;
- Grupa autora (Djurović G., red.), „**Evropske integracije**“, udžbenik za završnu godinu srednjih škola, izborni predmet, Zavod za udžbenike i nastavna sredstva, Podgorica, 2010 (ISBN 978-86-303-1444-5); udžbenik za srednje škole; i **Priručnik za nastavnike**;

Studijski priručnici (skripta, hrestomatije...)

- Đurović G.: „**Crna Gora: od spoljnotrgovinske ka evropskoj integraciji**“, Ekonomski fakultet, Podgorica, 2007 (skripta);
- Djurovic G., Jacimovic D., Milovic N., „**Integracija u evropske strukture**“, e-učilo za posdiplomski studij, Ekonomski fakultet, 2010,
- Đurovic G., **Ekološka ekonomija**, e - skripta, Ekonomski fakultet, Podgorica, 2012;
- Đurovic G., „**Međunarodni ekonomski odnosi**“ e-skripta, FPN, Podgorica, 2017;
- Đurović G., „**Regionalna ekonomija**“, e-skripta, Ekonomski fakultet, Podgorica, 2017;
- Đurović G., „**Privredni razvoj i evropske integracije**“, e-skripta, Ekonomski fakultet, Podgorica, 2017;

Mentorstvo na doktorskim studijama

- dr Dragana Radević, „**Ekonomska efikasnost versus socijalna jednakost u državi blagostanja**“, doktorska disertacija, Ekonomski fakultet, Podgorica, 2007;
- dr Nikola Milović, „**Konkurentnost privrede Crne Gore**“, doktorska disertacija, Ekonomski fakultet, Podgorica, 2011;
- dr Branko Bulatović, **Optimizacija modela ruralnog razvoja Crne Gore**, doktorska disertacija, Ekonomski fakultet, Podgorica, 2014;

Mentorstvo na postdiplomskom studiju

- Veliki broj kandidata (70), dostupno u bazi COBISS.CG-ID

World Who's Who, Europa Biographical Reference Series, Routledge, Taylor & Francis Group:
Gordana Djurovic - Montenegrin economist, academic and politician ; Professor of Economic Development, International Economic Relations and EU Enlargement Policy, University of Montenegro

<http://www.worldwhoswho.com/views/browse.html?id=sdl1889>



Број: 01-3042
Датум, 26.10.2006 г.

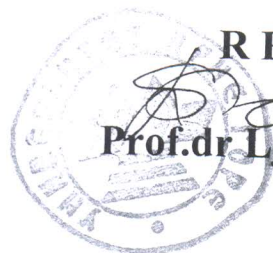
УНИВЕРЗИТЕТ ЦРНЕ ГОРЕ
ЕКОНОМСКИ ФАКУЛТЕТ

Број 1275
04/12 2006 год.
ПОДГОРИЦА

Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG br. 60/03.) i člana 19 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 26.10.2006. godine, donio je

ODLUKU O IZBORU U ZVANJE

Dr GORDANA DJUROVIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmete: Privredni razvoj, Regionalna ekonomija i Ekološka ekonomija na **Ekonomskom fakultetu u Podgorici** i Medjunarodni ekonomski odnosi na **Fakultetu političkih nauka u Podgorici**.



РЕКТОР,

[Signature]
Prof.dr Ljubiša Stanković

Ime i prezime: prof. dr Milivoje Radović

Datum rođenja: 05.05.1972

Obrazovanje: Osnovnu školu je završio u rodnom gradu, a srednju školu i fakultet u Podgorici. Diplomirao je na Ekonomskom fakultetu u Podgorici 1995. godine. Tokom Studija nagrađivan za postignute rezultate. Magistarsku tezu »Tržište rada u makroekonomskoj teoriji i politici« odbranio je u decembru 1998. godine na Ekonomskom fakultetu u Beogradu. Novembra 2004. godine na Ekonomskom fakultetu u Podgorici odbranio je doktorsku disertaciju pod nazivom »Tržište rada i neformalna zaposlenost u makroekonomskoj teoriji i politici«.

Radni odnos: Od 1995. do 1999. godine radio je kao saradnik na Ekonomskom fakultetu u Podgorici; U zvanje asistenta na predmetu Privredni sistem i ekonomska politika izabran je 1999. godine.

Izabran je u zvanje docenta na Ekonomskom fakultetu u Podgorici 04.07.2005. (Bilten UCG broj 194 od 8.07.2005.godine) na predmetima: Privredni sistem, Ekonomika javnog sektora, Ekonomija rada i socijalna politika i Tržište rada.

U zvanje vanrednog profesora izabran je na Ekonomskom fakultetu u Podgorici 30.09.2010. godine (Bilten UCG broj 261 od 1.11.2010. godine) na predmetima: Ekonomija, Ekonomija javnog sektora i Tržište rada.

U zvanje redovnog profesora izabran je na Ekonomskom fakultetu u Podgorici 4.02.2016. godine (Bilten UCG broj 363 od 4.02.2016.) na predmetima: Ekonomija, Ekonomija javnog sektora i Tržište rada.

Koordinator Studija menadžmenta u Bijelom Polju bio je u periodu jun 2005 - decembar 2009. godine. Od novembra 2006. godine do decembra 2009. bio je Rukovodilac Studija menadžmenta u Podgorici i Bijelom Polju, a u periodu septembar 2008 - decembar 2009. godine bio je Rukovodilac Postdiplomskih studija menadžmenta.

U periodu, novembar 2010., jul 2018. godine bio člana Savjeta Centralne banke Crne Gore.

Septembra 2012. Imenovan za Rukovodioca Studija menadžmenta Ekonomskog fakulteta u Podgorici.

Dekan Ekonomskog fakulteta u periodu maj 2013 - novembar 2014. godine.

Oblast istraživanja: Ekonomska teorija i politika. Autor je i koautor: 4 monografije I jednog univerzitetskog udžbenika (B. Dimirijevic, N.Fabris, M. Radović, Lj. Vladušić, M. Jandrić,

“Ekonomska politika-Regionalni aspekti”, Ekonomski fakultet u Beogradu, 2016, str. 596), preko trideset naučnih radova objavljenih u međunarodnim časopisima od kojih izdvajamo:

- J. Djuraskovic, M. Radonjic, M. Radovic, A. Djurovic, M. Jovovic (2019). *The Key Macroeconomic Determinants of GDP Growth: the Case of the Dollarized Economy in Montenegro*, *TRANSFORMATIONS IN BUSINESS & ECONOMICS*, Volume 18, No3(48), Pages 54–66, ISSN (Online) 2336-9205, ISSN 1648-4460,
- M. Radović, M. Bozovic, J. Djuraskovic (2015), *Beyond The Formal Economy: Evaluating the Level of Informal Employment in Montenegro* , *Journal of Global Policy and Governance*, *Journal of Global Policy and Governance*, , Vol. 4, No 1, 121-140. ISSN 2194-7759 .
- Milivoje Radovic, Serge Shuster, & Milos Vulcanovic (2012), *Conceptual modeling of Current and Capital Accounts in Central and Eastern European countries*, *International Research Journal of Applied Finance*, Vol – III, 491 – 502., ISSN 2229 – 6891.
- M. Radovic, M. Jovovic, J. Bajec (2009.), *Macroeconomic aspects of privatisation in Montenegro” South East Europe Review for Labor and Social Affairs, (SEER), Vol. 12, No. 1., , ISSN 1435-2869, pp. 57-76.*
- Radović and D. Djuric *“Possibilities for creating new employment in Montenegro”* , *South East Europe Review for Labor and Social Affairs, Europe trade union institute, Duseeldorf, No.4., ISSN 1435-2869, Vol.6, pp. 101-113., February 2004.*
- D. Jacimovic and M. Radovic, *»Regional Development Management-Montenegro Case«, Management, No 4, (2006), ISSN 1820-0222, p. 15-22.*
- M. Radovic, R. Zugic, and N. Milovic (2013), *Economic institutions and competitiveness of economy with emphasis on Montenegro, Montenegrin Journal of Economics, Vol. 9, Number 1, 63-74. ISSN 1800-5845.*



Univerzitet Crne Gore

University of Montenegro


03-316
04. 02. 16

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju (Službeni list Crne Gore br. 44/14 i 47/15) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 04. februara 2016. godine, donio je

ODLUKU O IZBORU U ZVANJE

DR MILIVOJE RADOVIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmete: Ekonomija, Ekonomija javnog sektora i Tržište rada na osnovnom akademskom studijskom programu Ekonomija na Ekonomskom fakultetu

REKTOR


Prof. Radmila Vojvodić



Република Србија
Универзитет у Београду
Економски факултет
Број: 4738/1
Датум: 11.05.2019
Београд

На основу члана 159. став 2. Закона о запосленима у јавним службама („Службени гласник РС“, број 113/17), члана 38. Статута Факултета, број 4738/1 - пречишћен текст и 2149/1, доносим

РЕШЕЊЕ

1. **Јакшић др Миомиру**, запосленом на пословима редовног професора, утврђује се назив радног места **наставник на академским студијама-редовни професор**.
2. Овим решењем не врши се премештај запосленог на друге послове.
3. Ово решење ступа на снагу даном доношења, а примењује се од 01.01.2019. године.

Образложење

Чланом 159. став 1. Закона о запосленима у јавним службама прописана је обавеза да се у року од 90 дана од дана ступања на снагу тог закона донесе правилник о организацији и систематизацији послова који је усклађен са Уредбом о каталогу радних места у јавним службама и другим организацијама у јавном сектору („Службени гласник РС“, број: 81/17 и 6/18), одредбама закона којим се уређује систем плата у јавном сектору и овим законом. Ставом 2. истог члана Закона утврђена је обавеза да се у року од 30 дана од дана ступања на снагу правилника о организацији и систематизацији послова донесу решења којима се утврђују називи радних места чије послове запослени обављају у складу са називима из наведеног правилника. Овим решењима се по сили закона мењају одредбе уговора о раду које се односе на називе послова које запослени обављају. У свему осталом уговор о раду остаје неизмењен.

На основу претходне сагласности Савета Факултета бр. 1320/1 од 29.03.2018. године уз прибављено мишљење Синдиката Економског факултета у Београду, декан је донео Правилник о организацији и систематизацији послова на Факултету, који је ступио на снагу 10.04.2018. године.

На основу наведеног, Јакшић др Миомиру, који је запослен на пословима редовног професора, према опису послова који обавља, утврђен је назив радног места као у изреци овог решења.

Поука о правном леку: Против овог решења запослени може покренути спор пред надлежним судом у року од 60 дана од дана достављања решења.

Декан
Економског факултета
Б.Борић
Проф. др Бранислав Борић

Доставити:

- Именованом,
- Служби за опште и правне послове,
- Финансијско-рачуноводственој служби,
- Архиви факултета.