Research Paper

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Comparative Analysis of the Evolution Unemployment Rate in the European Union, Romania, Usa and Japan With Adjusted Data Based Seasonally

Social Science

KEYWORDS : Unemployment rate, average, AVEDEV, DEVSQ, coefficient of variation, adjusted data based seasonally.

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ABSTRACT

The principal causes of the evolution unemployment rate in EU, Romania, USA and Japan were: the general economic evolution of industries and agriculture, but the specific one of the countries, the relatively low investments, low labour mobility in the territorial plan and professional, and the international economic environment. The comparative analysis of the evolution unemployment rate in the EU, Romania, USA and Japan in august 2013 - may 2014 with adjusted data based seasonally used the average and the function AVEDEV, DEVSQ as well as the coefficient of variation and graphics.

INTRODUCTION

The Unemployment adjusted series is a collection of monthly, quarterly and annual series based on the EU Labour Force.

The definition of unemployment is of the International Labour Organisation, précised in Commission Regulation (EC) No 1897/2000.

Unemployed persons are all persons 15 to 74 years of age who were not employed during the reference week, had actively sought work during the past four weeks and were ready to begin working immediately or within two weeks.

The unemployment rate is the number of people unemployed as a percentage of the labour force. The labour force is the total number of people employed and unemployed.

THE EVOLUTION OF UNEMPLOYMENT RATE IN THE EUROPEAN UNION, ROMANIA, USA AND JAPAN IN AUGUST 2013 - MAY 2014 WITH ADJUSTED DATA BASED SEASONALLY

Statistical Data

According to the data provided by the www.eurostat.ec.europa.eu the evolution of unemployment rate for the period august 2013 - may 2014 with adjusted data based seasonally, synthesised in the following tables.

Table-1
Unemployment rate total

GEO/ TIME	EU (28 countries) (%)	Romania (%)	USA (%)	Japan (%)
2013M08	10,8	7,3	7,2	4,1
2013M09	10,8	7,3	7,2	4,0
2013M10	10,7	7,4	7,2	4,0
2013M11	10,7	7,4	7	3,9
2013M12	10,6	7,3	6,7	3,7
2014M01	10,6	7,3	6,6	3,7
2014M02	10,5	7,2	6,7	3,6
2014M03	10,4	7,2	6,7	3,6
2014M04	10,4	7,1	6,3	3,6
2014M05	10,3	7,3	6,3	3,5

Sources:http://epp.eurostat.ec.europa.eu/tgm/table.do?tab=table&init=1&language=en&pcode=teilm020&plugin=0

Table-2
Unemployment rate by sex males

GEO/ TIME	EU (28 countries) (%)	Romania (%)	U S A (%)	Japan (%)
2013M08	10,8	7,9	7,7	4,5
2013M09	10,8	7,9	7,7	4,3
2013M10	10,7	8	7,5	4,3
2013M11	10,7	8	7,3	4,1
2013M12	10,5	7,9	6,8	3,9
2014M01	10,5	7,8	6,8	3,9
2014M02	10,5	7,7	7	3,7
2014M03	10,4	7,8	6,8	3,7
2014M04	10,4	7,7	6,4	3,8
2014M05	10,3	7,9	6,4	3,7

Sources:http://epp.eurostat.ec.europa.eu/tgm/refreshTableAction.do?tab=table&plugin=0&pcode=teilm020&language=en

Table-3
Unemployment rate by sex females

GEO/ TIME	EU (28 countries) (%)	Romania (%)	USA (%)	Japan (%)
2013M08	10,8	6,6	6,8	3,7
2013M09	10,8	6,6	6,7	3,5
2013M10	10,8	6,6	6,9	3,7
2013M11	10,8	6,6	6,7	3,7
2013M12	10,7	6,5	6,5	3,5
2014M01	10,6	6,5	6,4	3,5
2014M02	10,5	6,6	6,4	3,3
2014M03	10,5	6,4	6,6	3,4
2014M04	10,4	6,3	6,1	3,4
2014M05	10,4	6,5	6,2	3,4

Sources:http://epp.eurostat.ec.europa.eu/tgm/refreshTableAction.do?tab=table&plugin=0&pcode=teilm020&language=en

Analyse of Statistical Data

Analyse of statistical data for the evolution unemployment rate in the EU, Romania, USA and Japan in august 2013 - may 2014 with adjusted data based seasonally use the average and the function AVEDEV, DEVSQ as well as the coefficient of variation and graphics, centralised as well as:

Table-4
Unemployment rate total

Function	Average	AVEDEV	DEVSQ	Coeff. variation v1	Coeff. variation v2
EU (28 countries)	10,6	0,144	0,276	0,014	0,026
Romania	7,3	0,068	0,076	0,009	0,010
USA	6,8	0,288	1,089	0,042	0,160
Japan	3,8	0,184	0,401	0,049	0,106

Sources: own calculations

Table-5
Unemployment rate by sex male

Function	Average	AVEDEV	DEVSQ	Coeff. variation v1	Coeff. variation v2
EU (28 countries)	10,6	0,152	0,284	0,014	0,027
Romania	7,9	0,088	0,104	0,011	0,013
USA	7,0	0,408	2,144	0,058	0,305
Japan	4,0	0,248	0,769	0,062	0,193

Sources: own calculations

Table-6
Unemployment rate by sex female

Function	Average	AVEDEV	DEVSQ	Coeff. Variation v1	Coeff. Variation v2
EU (28 countries)	10,6	0,15	0,261	0,014	0,025
Romania	6,5	0,08	0,096	0,012	0,015
USA	6,5	0,21	0,601	0,032	0,092
Japan	3,5	0,114	0,189	0,032	0,054

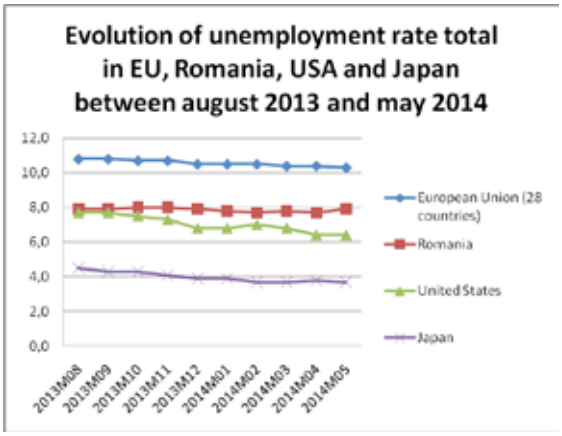
Sources: own calculations

The comparative analysis by areas and total or by sex shows a decrease of unemployed rate in EU, SUA and Japan and an easy increase in Romania, per total. As well as the unemployed rate by sex female is less than by male in all areas analysed.

Graphical Evolution

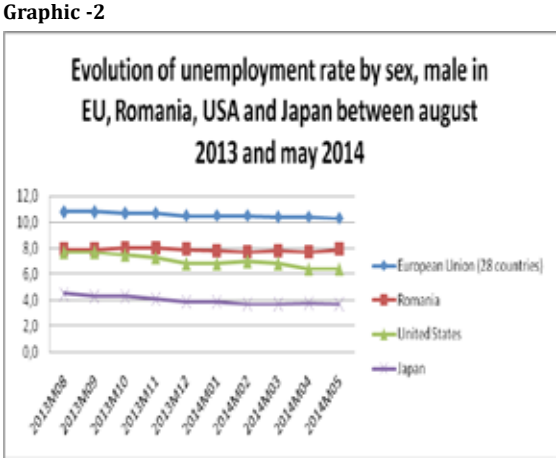
The graphical evolution of unemployment rate total and by sex male and female in EU, Romania, USA and Japan between august 2013 -may 2014 is the following:

Graphic -1



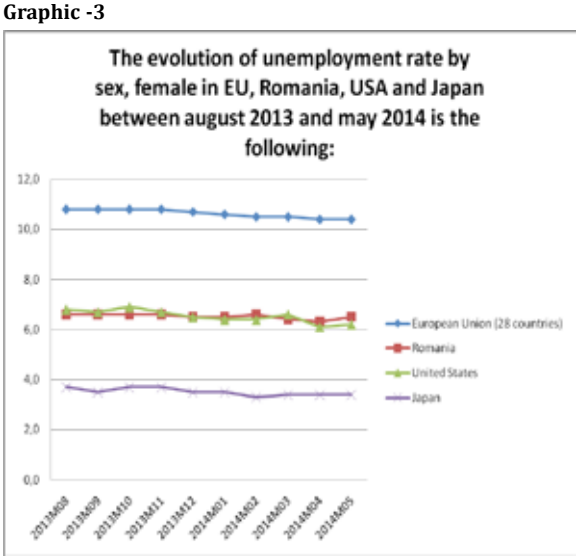
Sources: own calculations

Graphic -2



Sources: own calculations

Graphic -3



Sources: own calculations

CONCLUSIONS

The principal causes of the evolution unemployment rate in EU, Romania, USA and Japan were: the general economic evolution of industries and agriculture and the specific one of the areas.

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The comparative analysis of the evolution unemployment rate in the EU, Romania, USA and Japan in august 2013 - may 2014 with adjusted data based seasonally used the average and the function AVEDEV, DEVSQ as well as the coefficient of variation and graphics and be seen that a decrease of unemployed rate in EU, SUA and Japan and an easy increase in Romania, per total. As well as the unemployed rate by sex female is less than by male in all areas analysed.

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