

EDITORIAL OF THE SECOND SPECIAL ISSUE ON DISTRIBUTIONS
AND INEQUALITY MEASURES IN ECONOMICS

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The University of Milano-Bicocca (Department of Statistics and Quantitative Methods, Department of Economics and Statistics) and the Scientific Committee of *Statistica & Applicazioni* organized (Milano, February 20- 21, 2020) the International Conference on “Distributions and Inequality Measures in Economics, DIME 2020”.

Statistica & Applicazioni has dedicated two issues for the publication of some papers received from authors of the oral contributions at the DIME 2020 Conference.

The first issue (Vol. XVIII, n.1, 2020) was composed of six papers.

The present second issue (Vol. XIX, n.1, 2021) is composed of the following six papers.

1. Igor Valli, Michele Zenga. *Decomposition by sources, by subpopulations and joint decomposition by subpopulations and sources of Gini, Bonferroni and Zenga 2007 inequality indexes*

The paper by Igor Valli and Michele Zenga illustrates the decomposition by sources, by subpopulations and the joint decomposition by subpopulations and sources, based on the two-step approach, of the three inequality measures. These decompositions are applied to data from the 2014 central bank of Italy sample survey on household income and wealth (Bank of Italy, 2016) using the *R* package *ineqJD* (Arcagni and Valli, 2019).

2. Marcella Mazzoleni, Angiola Pollastri, Vanda Tulli. *Distribution of the ratio of female income over male income*

The distribution of the ratio of two Dagum random variables, proposed in 2010 by Pollastri and Zambruno, is utilized by Mazzoleni, Pollastri and Tulli to study some empirical distributions of the “ratio” of female income over male income.

3. Paweł Ulman, Małgorzata Ćwiek. *Income distribution and income inequalities in Polish households*

The paper by Paweł Ulman and Małgorzata Ćwiek gives a detailed comparative

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analysis of income distribution and of the decompositions of income inequality measures by major socio-economic groups, carried out for 2015 and 2018 (before and during the implementation of significant social programmers in Poland). The analyses were performed based on microdata from the Household Budget Survey of 2009–2018 carried out by Statistical Poland.

4. Marisa Civardi, Renata Targetti Lenti. *The Sam's Global Multiplier Matrix as a "Structural" measure of the personal income distribution*

The paper by Marisa Civardi and Renata Targetti Lenti illustrates the relations between the global multiplier matrix and the personal income distribution. The 7 numerical examples, referred to the Italian economic system, show how an increase in disposable income of the first deciles, benefits all the households and in particular the richest ones.

5. Francesca Condino, Filippo Domma. *Modelling the bivariate income and consumption distribution using copula function and reparametrized Dagum distribution*

Recently (2018) Domma, Condino and Giordano have proposed a new formulation of Dagum distribution in terms of a location measure (median), and of income inequality and poverty measures. In the present paper Francesca Condino and Filippo Domma propose a bivariate model for Income and Consumption, using copula function to model the dependence structure, and the new (2018) Dagum distribution to model the marginal distributions.

6. Pietro Renzi, Alberto Franci. *Social determinants of Health and Inequality Measures*

The paper by Pietro Renzi and Alberto Franci shows that health is the result of many interrelated factors, the conditions in which people live affect their health status and contribute to the creation of a gap between socio-economic groups and socio-economic inequalities in health status are present in all countries of the world, including the most developed.