**FINANCIAL DETERMINANTS OF SMEs GROWTH IN THE TIME OF ECONOMIC DOWNTURN**

Marina Jeger\*

Josip Juraj Strossmayer University of Osijek

Faculty of Economics in Osijek

Trg Ljudevita Gaja 7,

31000 Osijek, Croatia

[marina@efos.hr](mailto:marina@efos.hr)

Phone: +38531224400

Nataša Šarlija

Josip Juraj Strossmayer University of Osijek

Faculty of Economics in Osijek

Trg Ljudevita Gaja 7,

31000 Osijek, Croatia

[natasa@efos.hr](mailto:natasa@efos.hr)

Phone: +38531224400

Ana Bilandžić

Josip Juraj Strossmayer University of Osijek

Faculty of Economics in Osijek

Trg Ljudevita Gaja 7,

31000 Osijek, Croatia

[anag@efos.hr](mailto:anag@efos.hr)

Phone: +38531224400

\*autor za korespondenciju

**Abstract**

The importance of high-growth enterprises in national economies has been widely substantiated by economic research in recent years. There are a small number of papers that investigate determinants of growth in the time of economic downturn. This paper is focused on finding financial ratios that are determinants of growth in small and medium-sized enterprises (SMEs) which operate in downturn economies. The assumption of this study is that time of economic downturn sets new challenges to SMEs and that fact should be reflected in their financial statements as well as in growth prediction model. Our hypotheses have been tested on the sample of 1492 SMEs from Croatia over the period 2008-2013 in the time of economic downturn. Using logistic regression, growth prediction model has been developed and tested. Results have shown that in the time of economic downturn, growth potential of SMEs increases with the increase of liquidity, turnover and profitability and with the decrease of leverage.

**Keywords:** Growth prediction, SMEs, logistic regression, downturn economy

**Marina Jeger** works as as assistant professor at Faculty of Economics in Osijek. She defended her doctoral thesis entitled “Effectuation and development of entrepreneurial intentions” in July 2013 at international and interdisciplinary doctoral program at J. J. Strossmayer University of Osijek. Prior to that, she has earned her MBA degree at Kelley School of Business in Bloomington, Indiana, USA, where she spent two years as Fulbright student. Her research covers several areas of entrepreneurship with the emphasis on entrepreneurial intentions, entrepreneurial education, effectuation and financial distress modeling.

**Nataša Šarlija** is a full professor at the University of J.J. Strossmayer in Osijek, Faculty of Economics in Osijek, Croatia. She got her PhD from University of Zagreb, Faculty of Economics in Croatia on the modeling of credit risk for small and medium enterprises. She has published research on the topics of credit risk modeling and entrepreneurship. Her research interests are: credit risk modeling, high growth entrepreneurship, credit analysis, financial modelling. Her teaching engagements include courses on graduate and doctoral studies at Faculty of economics as well as at the Department of mathematics.

**Ana Bilandžić** is a research assistant at the University of J.J. Strossmayer in Osijek, Faculty of Economics in Osijek, Croatia. She got her master’s degree in mathematics at University of J.J. Strossmayer in Osijek, Department of mathematics and is currently a PhD student at University of J.J. Strossmayer in Osijek, Faculty of Economics, Croatia on the doctoral program Entrepreneurship and Innovativeness. Her research interests are high growth entrepreneurship and mathematical modelling.