

# Report on Bachelor Thesis

Institute of Economic Studies, Faculty of Social Sciences, Charles University in Prague

<b>Student:</b>	<b>Jana Vorlíčková</b>
<b>Advisor:</b>	<b>RNDr. Michal Červinka, Ph.D.</b>
<b>Title of the thesis:</b>	<b>Least Absolute Shrinkage and Selection Operator Method</b>

## **OVERALL ASSESSMENT** (provided in English, Czech, or Slovak):

*Please provide your assessment of each of the following four categories. The minimum length of the report is 300 words.*

### **Contribution**

The thesis contains a valuable overview and comparison on current methods for model building with big data. The large portion of text is devoted both to the literature review of various economic applications and the author contributes the current literature by presenting her own computations with interesting new conclusions derived from a publicly available data set Trend and International Mathematics and Science Study.

### **Methods**

The presentation of mathematical concepts is performed very gently so that even an unskilled person with just basics of linear and nonlinear regression could readily follow this text. The highlight of this thesis are comparisons of discussed methods supported by author's graphics and the numerical part, for which she required no help of the supervisor. I find it quite remarkable.

### **Literature**

The introductory part of the thesis contains a thorough literature overview, so the interested reader can easily go deeper into the discussed topic.

### **Manuscript form**

The manuscript is well executed in both mathematical presentation and language. Occasionally, one can find typos and rather awkward formulations evoking translations from Czech, but it does not interfere with following the text. I find it a pity that upon the first occurrence of „lasso“ (page 2, line 9), the acronym is not explained. Also, on page 28, first line from below, there is a reference to a nonexistent section 5.3.1. But these are rather minor comments which have no consequence on my point/grade award.

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**SUMMARY OF POINTS AWARDED** (for details, see below):

<b>CATEGORY</b>	<b>POINTS</b>
<i>Contribution</i> (max. 30 points)	29
<i>Methods</i> (max. 30 points)	30
<i>Literature</i> (max. 20 points)	19
<i>Manuscript Form</i> (max. 20 points)	19
<b>TOTAL POINTS</b> (max. 100 points)	<b>97</b>
<b>GRADE</b> (1 – 2 – 3 – 4)	<b>1</b>

**NAME OF THE REFEREE:** *Michal Červinka*

**DATE OF EVALUATION:** *May 31, 2017*

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**Referee Signature**

**EXPLANATION OF CATEGORIES AND SCALE:**

**LITERATURE REVIEW:** *The thesis demonstrates author's full understanding and command of recent literature. The author quotes relevant literature in a proper way.*

Strong                  Average                  Weak  
20                          10                          0

**METHODS:** *The tools used are relevant to the research question being investigated, and adequate to the author's level of studies. The thesis topic is comprehensively analyzed.*

Strong                  Average                  Weak  
30                          15                          0

**CONTRIBUTION:** *The author presents original ideas on the topic demonstrating critical thinking and ability to draw conclusions based on the knowledge of relevant theory and empirics. There is a distinct value added of the thesis.*

Strong                  Average                  Weak  
30                          15                          0

**MANUSCRIPT FORM:** *The thesis is well structured. The student uses appropriate language and style, including academic format for graphs and tables. The text effectively refers to graphs and tables and disposes with a complete bibliography.*

Strong                  Average                  Weak  
20                          10                          0

**Overall grading:**

TOTAL POINTS	GRADE		
81 – 100	<b>1</b>	= excellent	= výborně
61 – 80	<b>2</b>	= good	= velmi dobře
41 – 60	<b>3</b>	= satisfactory	= dobře
0 – 40	<b>4</b>	= fail	= nedoporučuji k obhajobě