

Curriculum Vitae of Andrea Janes

October 2, 2019

My work in academia aims to improve the efficiency of software development processes using non-invasive measurement as well as the introduction of Agile and Lean software production methods. The developed automatic, non-invasive techniques to measure the quality of software can help teams in small and medium enterprises to lower the quality assurance costs and to apply best practices such as "Lean Production". Automatic measurement is a topic I am studying since more than 10 years, to allow teams to learn from their past mistakes, to support decision making, and to visualize the otherwise invisible software development process.

1. Working experience

April 2011 – Now: Researcher on a fixed-term contract at the Faculty of Computer Science of the Free University of Bozen/Bolzano

November 2007 – April 2011: Research assistant at the Faculty of Computer Science of the Free University of Bozen/Bolzano

November 2005 – February 2007: Researcher on a fixed-term contract at the Faculty of Computer Science of the Free University of Bozen/Bolzano

November 2003 – March 2005: Research assistant at the Faculty of Computer Science of the Free University of Bozen/Bolzano

2. Education

I found it always interesting to combine Economics with Computer Science. This interest reflects in the choice of the high school, the university, and the doctorate.

- October 2006–August 2014: Doctor of technology degree in computer science at the University of Klagenfurt, Austria. The doctorate was supervised by Prof. Gerhard Friedrich (University of Klagenfurt) and Prof. Giancarlo Succi (Free University of Bozen/Bolzano). The Austrian title for this study is "Dr. techn.". I obtained my doctorate with distinction.
- October 1994–November 2001: Master of science degree in "Informatics and Economics" ("Wirtschaftsinformatik" in German) at the Technical University of Vienna, Austria. The Austrian title for this study is "Mag. rer. soc. oec.".
- October 1989–July 1994: High school studies of "Ragioniere perito commerciale e programmatore", a study that combines Economics and Computer Science at the high school "Handelsoberschule Franz Kafka" in Meran, Italy.

3. Patents

1. Nokia Corporation, Saarinen J., Kärkkäinen L., Terho M., Fronza I., Janes A., Sillitti A., Succi G.: „A system and a method for determining context.“, publication number: WO/2013/124521, international application number: PCT/FI2012/050180, permalink: <http://patentscope.wipo.int/search/en/WO2013124521>, 2013.

4. Software I developed

To support and validate my research, I developed the following software:

- various measurement tools to automatically identify the effort developer spend working interacting with Microsoft Windows, Microsoft Visual Studio, Eclipse, and Microsoft Office;
- all necessary software to practically use the tools within software development teams and to deploy the developed measurement tools, collect, analyze, and visualize the collected data;
- a plug-in based framework to facilitate the creation of visualization and analysis components;
- a number of plug-ins to collect and visualize metrics;
- an innovative dashboard, based on pre-attentive processing to visualize the collected measurements in a goal-oriented way.

5. Language skills

I enjoy learning new languages or to perfection my existing language skills. This is maybe a result of living in South Tyrol, a bi-lingual region in Italy. So far I learned the following languages:

- German (1st mother tongue, I passed the language examination “A” of the province in Bolzano which certifies that I master German at the level C1)
- Italian (2nd mother tongue, I passed the language examination “A” of the province in Bolzano which certifies that I master Italian at the level C1)
- English (level C1, certified by the Cambridge Certificate of Advanced English)

6. Publications

My publications can be found in online databases such as the following:

- Google Scholar: <https://scholar.google.com/citations?user=8lYoEEQAAAAJ>
- DPLB: <http://dblp.uni-trier.de/pers/hd/j/Janes:Andrea>
- ORCID <https://orcid.org/0000-0002-1423-6773>