Applications of Computer Algebra – ACA 2019 Montréal, Canada | July 16-20, 2019 École de technologie supérieure

## Methodological issues of application of computer algebra in blended learning environment

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We like technology for the sake of our students: it allows to transfer our knowledge and experience to them using tools and environments they are familiar with. In the application of CAS throughout the Teaching-Learning-Assessment (TLA) process our main concern is to develop methodology for technology supported mathematics education [1].

It is well-known that over the centuries unique values and educational tradition have been created. We try to give contemporary/modern interpretation of the educational tradition in the country having in mind purposeful applications of CAS towards the course content, course structure, assessment model and assessment activities. The assessment activities imply the learning outcomes. Being aware of the interrelationship between the teaching, learning and assessment we design and develop teaching and learning materials based on the assessment activities. As a result we change iteratively all the three components of the TLA process. The final goal is the students to build up habits that will be later transformed into educational values.

As we teach undergraduate mathematics (subjects like Engineering Mathematics, Calculus and Numerical methods), examples of methodological approaches to selected topics will be illustrated. The aim is to help students use prototypes, reflect on the results, understand concepts, use their imagination, work smarter not harder, master competencies [2], etc. For this purpose CAS is irreplaceable.

The ACA conferences are a kind of school for exiting and valuable collaborative work. Through any personal experience we all find out that teaching with CAS/technology is just like learning a foreign language: there is a beginning, but no end.

## Keywords

Methodology, Computer algebra systems, Teaching-learning-assessment process

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