



University of Szeged

Non-Standard Forms of Teaching Mathematics and Physics:
Experimental and Modeling Approach

UNS Faculty of Sciences, Novi Sad

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Srdan Škrbić graduated at the University of Novi Sad, Faculty of Science in 2001, earned MSc in 2004 and PhD at the same Faculty in 2009. In 2011 he was elected a Head of the Chair for information technologies and systems. He teaches classes in various areas of Information Systems and Parallel Computing to Computer science students. His research interests are mainly concerned with fuzzy logic applications in databases and parallel computing.

Introduction to scientific parallel computing

Time:	10x45 minutes
Topics:	Computer science
Technical tools:	Computer, projecting possibility
Audience:	20 persons is an optimum.

Other information:

Scientific computing is an indispensable part of almost all scientific investigation and technological development. Parallel computing in science enables computations that would otherwise be impractical if not impossible with sequential approaches alone.

The main idea of the course is to give students a hands-on experience of writing a simple software that can be implemented on a parallel computer architecture. All the steps and components of the process, defining the problem, numerical algorithms, program design, coding, different levels of documentation, are treated at a basic level. Throughout the course, two paradigms for parallel programming are examined - shared memory programming with OpenMP and distributed memory programming with MPI.

