- ✓ Are there new prospects for Machine Learning Techniques in High Energy Physics?
- ✓ Have you ever heard of Support Vector Machine or Gene Expression Programming? Are they used in High Energy Physics?
- ✓ Do you know the current status of the Artificial Neural Networks applications in High Energy Physics?
- Are you aware of the state of the art algorithms for classification, regression or optimisation problems?
- Have you realized the growing importance of parallel programming?
- Do you know how to distribute data and computations among working nodes?
- Do you know how to synchronize threads in your application?
- ✓ Can you efficiently use mutexes, semaphores, monitor objects, condition variables?
- Can you write concurrent software in an objectoriented way?
- ✓ Why is a V-model usually preferred over other models (spiral, waterfall, etc)?
- Are you aware of the differences between Walkthrough and Inspection in software testing?
- ✓ Do you know how to write a **Test Plan** based on
- IEEE standards?



## 6-8 March 2006, CERN\*

All the answers at iCSC

- ► Computational Intelligence for HEP Data Analysis
- ► The Art of Designing Parallel Applications
- ➤ Software Testing: Fundamentals and Best Practices
- a novel idea already prototyped in 2005
- a series of lectures proposed and delivered by selected students
- advanced topics, rarely taught at CERN before

Lecturers - all former CSC2005 students

Marek Biskup	University of Warsaw
Jaroslaw Przybyszewski	CERN
Vijayalakshmi Sundararajan	NewCastle
Liliana Teodorescu	Brunel University
Anselm Vossen	Albert-Ludwigs- Universität
Yushu Yao	University of Alberta
	TENOR PLANS ON HUMBER 2019
oom <b>40-S2-B01</b> , building 40	

Room **40-S2-B01**, building 40

Free attendance but registration recommended