

April 22/23, 2013, Bologna

PACE – basic information

- ► 4 years 1/1/13 31/12/16
- funded by ANR (France)
 - and Natural Sciences Foundation of China (NSFC)

plus some extra funding (from China) for visits (2013 only)

acknowledgements in papers:

This work has been supported by project **ANR** 12IS02001 **PACE**. (at least for "us french")

- three partners
 - BASICS, Shanghai Jiao Tong University
 - INRIA
 - Sophia Antipolis (Focus)
 - Saclay (Comete)
 - École Normale Supérieure de Lyon

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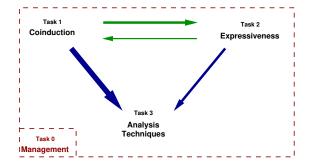
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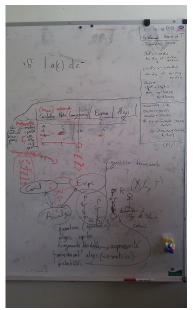
http://perso.ens-lyon.fr/daniel.hirschkoff/pace/

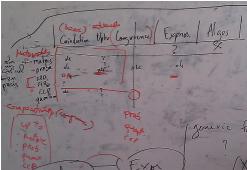
(not really googlable)

PACE beyond plain Processes: Analysis techniques, Coinduction and Expressiveness

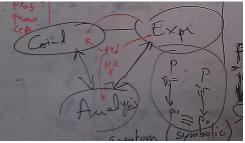














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Rather boring administrative matters

Frank Valencia has presented PACE at the ANR meeting on january the 24th, in Paris (thanks!)

 INRIA bi-localisation for funding (Sophia sends money to Saclay)

 Consortium agreement, to be signed by all parties, is ready (INRIA Saclay doesn't see this)

Recommendations ANR 24/1/2012

Faites une réunion de lancement !

Présence de tous les partenaires

Contenu minimum recommandé

Planification

Rôles de chacun

Management et coordination du projet

Aspects logistiques, réunions, outils

Dissémination, valorisation

Propriété Intellectuelle

Accord de consortium

Et évidemment, aspects scientifiques et techniques

Compte-rendu dans le rapport à T0+6

February 2014: meeting in Lyon

Mathematical Structures of Computation - Lyon 2014



Tace: • week5 • start

Mathematical Structures of Computation

Presentation

The weeks "Mathematical Structures of Computation" address several aspects of the interaction between Mathematics and Computer Science.

On the one hand, mathematical methods play a cuckal role in several fields of Computer Science, such as the formal verification of programs and the theory of programming languages : logic and proof theory in particular are historical tools in this regard, and more recently, others theories cuch as algebraic tracked interesting applications.

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Program

Week 1: Recent development in Type Theory, January 13-17.

· Week 2 : Algebra and Computation, January 20-24.

Week 3 : Directed Algebraic Topology and Concurrency, January 27-31.

Week 4 : Formal proof, Symbolic computation and Arithmetic of computers, February 3-7.

· Week 5 : Concurrency, Logic and Types, February 10-14.

Organisation

- Patrick Balliot
- Philippe Malbo

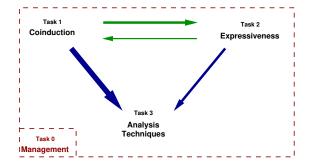
- http://smc2014.univ-lyon1.fr
- Week 5: Concurrency, Logic and Types
 From February 10 to February 14, ENS Lyon.
- ▶ PACE days: february 10 & 11, 2014

Please keep me informed

- hiring of people within PACE (postdocs)
- new members (PhD students, ...)
- anything else

 I will be asking for input from all of you to prepare the reports to ANR (june 30th is the next one)

PACE beyond plain Processes: Analysis techniques, Coinduction and Expressiveness



Description of the tasks

Task 1: Advanced Coinductive Techniques

Task leader: Davide Sangiorgi / Deputy task leader: Xu Xian

- ► T1.1: Up-to techniques Tu 11.30
- ► T1.2: From equivalences to metrics Tu 14.00
- T1.3: Probabilistic and quantum higher-order languages^{Mo16.00} 16.45
- ► T1.4: Quantum processes Tu 9.30
- ► Task 2: Expressiveness

Task leader: Fu Yuxi / Deputy task leader: Catuscia Palamidessi

- ► T2.1: Absolute theory Mo 9.30
- ► T2.2: Expressiveness in social networks Mo 14.30
- T2.3: Applications to privacy, confidentiality and anonymity
- Task 3: Analysis techniques

Task leader: Damien Pous / Deputy task leader: Deng Yuxin

- **•** T3.1: Algorithms relying on up-to techniques τ_u 11.30
- ► T3.2: Up-to techniques in algorithms for metrics Tu 14.00
- T3.3: Algorithms for quantum bisimulations τu 9.30
- ► T3.4: Minimization algorithms for symbolic bisimulation









Local arrangements

- access to wireless
- Iunch
- dinner