

Conference Announcement

Dear Colleagues, this is the first announcement for the

**European Workshop on  
Probabilistic Cellular Automata :  
Theory and Applications.  
Towards Future Perspectives.**

to be held at EURANDOM in **Eindhoven** on **June the 10th, 11th and 12th, 2013.**

The aim of the workshop is to confront recent developments concerning Probabilistic Cellular Automata, combining different points of view:

- Computer Science and Discrete Dynamical Systems e.g. robustness of PCA when going from synchronous to asynchronous updating scheme, deterministic CA with random initial condition, density classification, synchronous / asynchronous updating.
- Probability and Statistical Mechanics, e.g. PCA as discrete-time interacting particle system, non-equilibrium statistical mechanics, metastability, cut-off phenomena and abrupt convergence, phase transitions, Gibbs/Non-Gibbs transitions, PCA and stochastic algorithms
- Applications mainly in computational (cell) biology e.g. Cellular Potts Model and stability of emerging patterns, time to stationarity in simulation algorithms, transient regimes

The presence of representatives from these different research communities is expected to lead to a fruitful exchange of ideas, to disseminate novel approaches and promote innovative joint projects.

The registration for the workshop is free before 12.5.2013. As places are limited, registration is needed a.s.a.p. Should there be places left after this date, registration will only be possible with a fee (amount not yet determined).

Deadline for contribution (poster) is 12.5.2013.

We welcome contributed posters. If interested, please send title and abstract of max. 1 page to Patty Koorn (workshop officer).

**ORGANISERS**

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**CONTACT**

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## **PRELIMINARY LIST OF PARTICIPANTS**

Franco Bagnoli (Firenze, Italy), Paolo Dai Pra (Padova, Italy), Andreas Deutsch (Dresden, Germany), Lucas Gérin (Paris, France), Yi Jiang (Atlanta, USA), Kerry Landman (Melbourne, Australia), Christian Maes (Leuven, Belgium), Jean Mairesse (Paris, France), Danuta Makowiec (Gdansk, Poland), Markus Owen (Nottingham, United Kingdom), Damien Regnault (Evry, France), Benedetto Scoppola (Roma, Italy), Elisabetta Scoppola (Roma, Italy), Siamak Taati (Utrecht, The Netherlands), Anja Voß-Böhme (Dresden, Germany)

## **WEBSITE**

For details and updated related information, see :

<http://www.eurandom.nl/events/workshops/2013/PCA/PCA.html>

Looking forward to meet you in June at Eurandom/TU Eindhoven.

Regards,  
Organizing Committee