

1st French-Taiwanese Conference in Information Technologies

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**École polytechnique
Palaiseau, France**

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April 14–16, 2004

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Scientific Committee :

Jieh Hsiang, National Taiwan University, Taipei
Jean-Pierre Jouannaud, École Polytechnique, Palaiseau
Claude Kirchner, INRIA, Nancy
Yau-Hwang Kuo, National Chen-Kung University, Tainan
Jean-Marc Steyaert, École Polytechnique, Palaiseau
Monique Thonnat, INRIA, Sophia-Antipolis

The conference is organised at École polytechnique

Amphitheater Becquerel

under the patronage of the following institutions :

**Académie des Sciences Française
Centre National de la Recherche Scientifique (France)
École Polytechnique
Institut Français de Taiwan
Institut National de Recherche en Informatique et Automatique (France)
Laboratoire d'Informatique de l'École Polytechnique
National Science Council of Taiwan**

Wednesday, april 14

Session 1. Chair : Jean-Pierre Jouannaud

9 :30 Wen-Lian Hsu, Academia Sinica, Taipei

Bio-informatics : A paradigm shift in biological computing

10 :30 Coffe break

10 :45 Jean-Marc Steyaert

École Polytechnique, Palaiseau

Bio-informatics at École Polytechnique

11 :45 End of session 1

12 :00 Lunch

Afternoon Parallel sessions 2

Bio-informatics

Chair : Jean-Marc Steyaert

École Polytechnique, Palaiseau

13 :30 Thomas Simonson

École Polytechnique, Palaiseau

ProtéinÉvolution : Simulation and Control

14 :00 Kun-Mao Chao

National Taiwan University, Taipei

Flexible Space-Saving Strategies for

Constrained Sequence Alignment

14 :30 Alain Denise

Universit é Paris-Sud, Orsay

Shuffling biological sequences

with motifs constraints

15 :00 Jenn-Kang Hwang

National Chiao Tung University, Hsin Chu

The relationship between protein

thermostability and structural entropy

15 :30 Coffe break

16 :00 Benno Schwikowski

Institut Pasteur, Paris, and

Institute for Systems Biology, Seattle

Correleating Protein Interactions and Sequence

Motifs : a Network-based Motif Sampler

16 :30 Jung-Hsien Chiang

National Cheng Kung University, Tainan

Extracting Fonctionnal Annotation of Protein

based on a hybrid approach

17 :00 Marie-France Sagot

INRIA-Rhône-Alpes, Lyon

Real-time systems

Chair : Tei-Wei Kuo

National Taiwan University, Taipei

Real-Time Resource Allocation :

Theory and Practice

13 :30 Anca Muscholl

Universit é Paris 7, Paris

14 :00 Sheng-Tzong Cheng

National Cheng Kung University, Tainan

Scheduling with Multimedia Streams with

Hybrid Timing and Synchronization Constraints

14 :30 Laurent Fribourg

ENS-Cachan, Cachan

Probabilistic Convergence

15 :00 Ye-Qiong Song

INRIA-Lorraine, Nancy

Guaranteeing Real Time QoS according

to (m,k)-firm model

15 :30 Coffee Break

16 :00 Farn Wang

National Taiwan University, Taipei

Symbolic Techniques for the Verification of

Real-Time Systems with BDD-like Data Structures

16 :30 François Vernada

LAAS, Toulouse

17 :00 Pao-Ann Hsiung

National Chung Cheng University, Chiayi

Framework-based Formal Design and Verification

of Real-Time Embedded Software

17 :30 End of sessions 2

18 :00 Cocktail party

Thursday, april 15

Session 3 : *Multimedia*.

Chair : Jieh Hsiang

National Taiwan University, Taipei

9 :00 Yi-Ping Hung

National Taiwan University, Taipei

Digitalization of 3D objects for Virtual Museum

10 :00 : Coffee break

10 :15 Samuel Cruz-Lara

INRIA-Lorraine, Nancy

Using Web services for accessing and sharing multimedia resources in distributed digital museum

10 :45 Jen-Shin Hong

National Chi Nan University, Puli

Towards Intelligent Styling for Aesthetic Hypermedia Presentations

11 :15 Fr´ed´eric Bimbot

INRIA, Rennes

A probabilistic Approach to sound analysis and indexing

12 :45 End of session 3

12 :00 : Lunch

Special Session : *Real-Time Systems*

Chair : Jieh Hsiang

13 :30 Joseph Sifakis, CNRS, Grenoble

Real-time systems : a survey focusing on verification

14 :30 End of session

14 :30 Coffee Break

Session 4 : *Multimedia* Chair : Monique Thonnat, INRIA, Sophia Antipolis

14 :45 Pau-Choo Chung

National Cheng Kung University, Tainan

Human Home Behaviour Interpretation

from Video Streams

15 :15 James Crowley

IMAG, Grenoble

Context Aware Observation of Human

Activity for Interactive Environments

15 :45 Shinn-Ying Ho

Feng Chia University, Tai Chung

Computer Vision and Virtual Reality

16 :15 Jean-Daniel Fekete

INRIA-Futurs/LRI

Information Visualization

16 :45 End of session 4

17 :00 Visit of Chateau de Dampierre, property of the “Duc de Luysnes” currently a leaf of the family tree of the former kings of France

19 :00 Conference diner in the Chateau

Friday, april 16

Session 5. Chair : Claude Kirchner

INRIA Lorraine, Nancy

9 :30 Philippe Cinquin

Université Joseph Fourier, CNRS et Centre Hospitalier Universitaire, Grenoble

Medical Applications : a survey focusing on Computer Assisted Medical Interventions

10 :30 Coffee break

10 :45 François Morain

École Polytechnique, Palaiseau

Security : a survey focusing on cryptography.

11 :45 End of session 5

12 :00 Lunch

Afternoon Parallel sessions 6

Medical applications

Chair : Yung-Nien Sun

National Cheng Kung University, Tainan

Microscopic Image Analysis and Visualization

13 :30 Marc Thiriet

Image-based flow computational models
for medical diagnosis and planning

14 :00 Tony Wen-Hann Sheu

National Taiwan University, Taipei

Results in Liver Microcirculation and Surgeries

14 :30 Ruey-Feng Chang

National Chung Cheng University, Chia Yi

Computer-aided Diagnosis for 2D/3D

Breast Ultrasound

15 :00 Jean-Daniel Boissonnat

INRIA Sophia-Antipolis

Provably good surface sampling and meshing
with applications to medical imaging

15 :30 Coffee Break

16 :00 Françoise Prêteux

Institut National des Télécommunications, Evry

3D image processing : Key issue for e-Healthcare

16 :30 Chung-Ming Chen

National Taiwan University, Taipei

Computer-Aided Differential Diagnosis of

Sonographic Breast Lesions with Nearly

Setting-Independent Features

Security

Chair : Chi-Sung Laih

National Cheng Kung University, Tainan

13 :30 Marc Dacier

EUROCOM, Paris

Leurre.com : a collaborative approach to
understand Internet attack processes

14 :00 Hubert Comon

ENS-Cachan

Intruder Theories

14 :30 Tzong-Chen Wu

National Taiwan University Of Science
and Technology, Taipei

A Recursive Protocol for Group-oriented
Authentication with Key Exchange

15 :00 Michaël Rusinowitch

Security modulo : Analysing the security
of cryptographic protocols under various
intruder properties

15 :30 Coffe break

16 :00 Chung-Huang Yang

National Kaohsiung Normal University,
Kaohsiung

An Integration of PKI and IC cards for
IPv6 Security

17 :00 End of sessions 6

17 :00 Farewell

17 :15 End of the conference