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2006
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FRANCE /



**Information control:
A complex challenge for the 21st Century**

■ **OPENING CEREMONY – MAY 17th, 2006**

M. Noël PAUL

Communauté d'agglomérations, St Etienne Métropole

M. Robert GERMINET

Directeur, Ecole nationale supérieure des mines de Saint Etienne

Pr. Gérard MOREL

International Program Committee Chair

Pr. Alexandre DOLGUI

General Scientific Chair

Dr. Xavier BOUCHER

National Organizing Committee Chair

Noël PAUL

Communauté d'agglomérations
Saint Etienne Métropole

Robert GERMINET

Directeur

Ecole nationale supérieure des mines de Saint Etienne



Gerard MOREL

International Program Committee Chair

Welcoming by IFAC TC 5.1 & INCOM'06 IPC

- ✓ *Welcome on behalf of the IFAC TC 5.1. on Manufacturing Plant Control at the 12th INCOM'06 Symposium on Information Control Problems in Manufacturing.*
- ✓ *IFAC, the International Federation of Automatic Control, is one of the most world-wide relevant scientific society and will celebrate this year, in Heidelberg, by September 15, its 50th anniversary.*
- ✓ *The TC 5.1 is one of the 40 Technical Committees of the IFAC Technical Board of which one of the missions is to plan and monitor technical events such as INCOM'06.*

- ✓ *INCOM'06, as an IFAC Symposium, is a technical meeting covering a well defined theme of Control engineering on the same subject as a regular series, usually on a triennial basis.*
- ✓ *INCOM'06 is already the 12th edition of this series on Information Control Problems in Manufacturing which is always and even more and more up-to-date.*
- ✓ *Previous editions have been hosted in Brazil, Austria, France, China, Canada and so on.*
- ✓ *As past chairman of the IFAC TC 5.1, my mission was to select with all the members of the committee a relevant organization -a relevant scientist and a lab- able to take up this challenge to gather a large attendance ranging usually between 100 and 200 participants.*

- ✓ *Our choice - Alexandre Dolgui and l'École Nationale Supérieure des Mines de St Etienne - has been :*
 - *approved by the IFAC Technical Board*
 - *and sponsored by our host country National Member Organization, Pr. Janan Zaytoon and the French Société de l'Electricité, de l'Electronique et des Technologies de la Communication et de l'Information.*
- ✓ *Thanks to the impressive work of Alexandre and his team, the result to-day - about 800 attendees - largely exceeds our hopes and shows that our choice was relevant.*
- ✓ *INCOM became this year the world-wide event in manufacturing automation.*

- ✓ *As Chairman of the International Programme Committee, I would like to also thank the 731 reviewers who allowed us to do a very serious work of selection.*
- ✓ *No doubt that the next step, the selection of papers for special issues of international journals, will strengthen this high scientific relevance of INCOM'06.*
- ✓ *INCOM'06 got off to a most auspicious start: both the 50th anniversary of IFAC and the 190th anniversary of our host ENSME.SE.*
- ✓ *INCOM'06 will now continue with a high technical programme.*
- ✓ *Have a nice and friendly stay with us at INCOM'06.*



Alexandre DOLGUI
General Scientific Chair

INCOM'06 philosophy has been to put industrial problems in the forefront and invite all possible players in:

- ✓ *Automatic Control,*
- ✓ *Computer Science,*
- ✓ *Management Science,*
- ✓ *Operational Research,*
- ✓ *Industrial Engineering,*

to explore and offer new solutions.

This has made INCOM'06 one of the major scientific and industrial events in Manufacturing this year.

We are very proud of the results:

- ✓ *603 submissions of complete papers,*
- ✓ *731 reviewers,*
- ✓ *2000 reviews received (at least 3 reviews per paper),*
- ✓ *375 papers accepted,*
- ✓ *60 invited industrial presentations,*
- ✓ *7 keynote speeches,*
- ✓ *950 authors*
- ✓ *55 countries represented*

An exceptional **International Program Committee (IPC)** worked hard to insure that the process was **highly selective** and **professional**. A big thanks to all members of IPC and reviewers.

■ *Final Program:*

432 papers are in the final program:

If you want to read them all, that is more than one paper per day for an entire year.

INCOM'06 is sponsored by prestigious international scientific associations: IFAC, IFIP, IFORS, IEEE, IMS, EURO, etc.

16 International Journals are associated with INCOM for post symposium publications.

■ *3 workshops organized by Industry are also included in INCOM'06.*

800 attendees



Xavier BOUCHER
Organizing Committee Chair

■ INCOM'2006: A Complex Challenge ...

...Requiring Innovation:

Our ambition : to build a bridge between science and industry.

Three Main Components of INCOM'2006:

- ✓ A Scientific Symposium at the highest level, for cutting edge view on the advances of manufacturing and information sciences.
- ✓ A professional trade show, involving more than 40 academic and industrial exhibitors.
- ✓ Three industrial meetings to highlight industrial trends, to facilitate best-practices transfers, as well as to initiate exchanges between scientists and firms' managers.

And a Wonderful Occasion : 190th Anniversary of the ENSM.SE

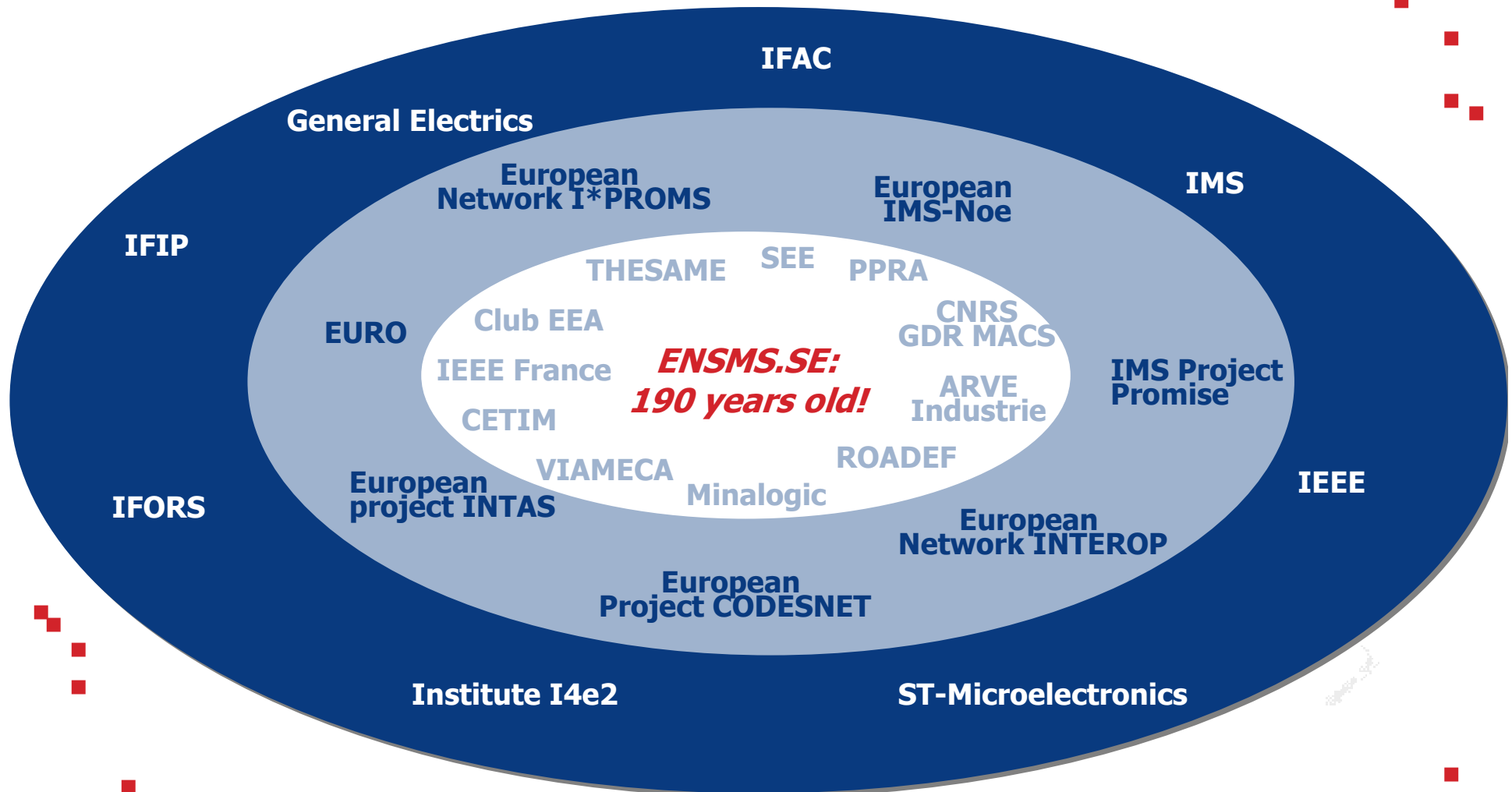
■ INCOM'2006: A Complex Challenge...Requiring Genuine Teamwork ■

Key Success Factors

- ✓ A dynamic organizing committee
- ✓ An intensive communication strategy
- ✓ The will to excel at each stage of the process, thanks the enthusiasm of A. Dolgui.
- ✓ A comprehensive involvement of the scientific community
- ✓ A unique network of scientific sponsorship
- ✓ An active network of organizing partners

Many thanks to the whole Organizing Committee !

■ A Successful Network of Scientific and Industrial Sponsors



A Successful Network of Organizing Partners

We wish to express our gratitude to our financial partners.
First, they have believed in our challenge. Later, their support has
made it possible !

Rhône-Alpes

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LOIRE
EN RHÔNE-ALPES

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We deeply thank our organizing partners.
The quality of the program we can offer today is also due to their
investment.

thésame

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RHÔNE-ALPES

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Ecole Nationale d'Ingenieurs de Saint-Etienne

Université
Jean
Monnet
SAINT-ETIENNE

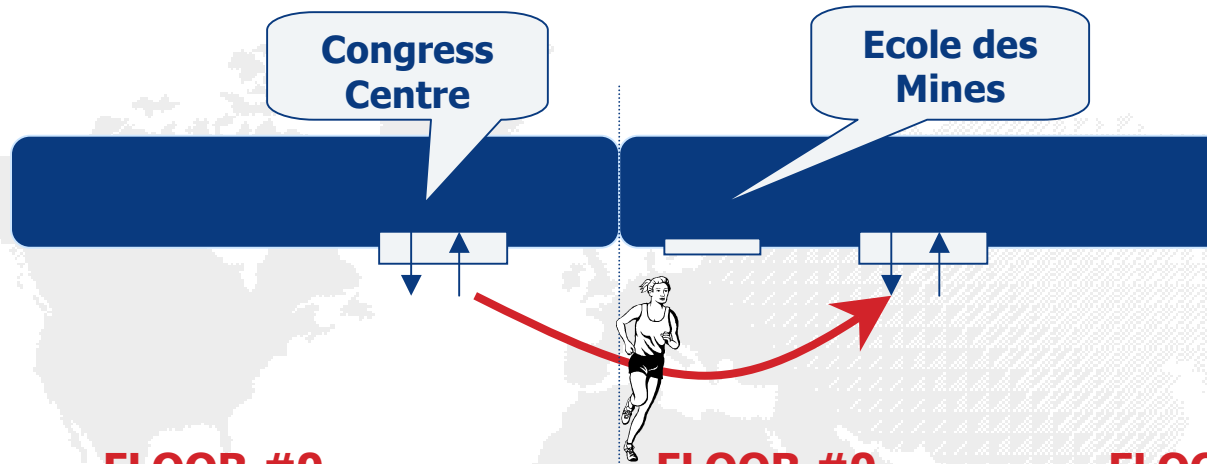
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We would like to salute all Tracks and Sessions Organizers.
You have done a great work. Thank you very much !

■ General Overview

-
- May 17th** [09:30-10:30] • **Symposium Opening Ceremony**
[10:30-18:00] • **INCOM'2006: Oral sessions, 2 keynote lectures**
[20:00-23:30] • **INCOM'2006 Banquet**
-
- May 18th** [09:15-18:30] • **INCOM'2006: Oral/poster sessions, 3 keynote lectures**
[10:30-18:00] • **Opening of the academic/industrial exhibition**
[08:30-18:00] • **BPM'2006: Business Process Management Forum**
[08:30-18:00] • **EMM'2006: First day, « Integrated Design: methods & tools »**
[14:15] • **Touristic Tour: Art and Industry Museum**
[19:30-21:30] • **ENSM.SE anniversary: Concert at the Esplanade**
-
- May 19th** [08:30-17:00] • **INCOM'2006: Oral/poster sessions, 2 keynote lectures**
[08:30-17:00] • **Academic/industrial exhibition**
[08:30-18:00] • **JT'2006: Architecture and Management of Information Systems**
[08:00-16:30] • **EMM'2006: Second day, « Mechatronics: Risk or opportunity? »**
[17:00-18:00] • **Symposium Closing Ceremony and Awards Announce ■**

Logistic Plan



FLOOR #0

- Registration Desks
- EMM'2006
- Lunch

FLOOR #1

- Congress Hall
- Exhibition Hall
- Coffee Breaks Lounge
- 4 Scientific Rooms

FLOOR #0

- Posters Room
- Wifi Room

MEZZANINE

- BPM'2006 / JT'2006

FLOOR #1

- 5 Scientific Rooms

FLOOR #2

- 5 Scientific Rooms
- Internet Room
- Press Room

FLOOR #6

- Meeting Room

■ Scientific Overview : 90 sessions, for 24 tracks
180 Sessions Chairs

Authors

- Strictly respect the time limits : 20 mn + 10 mn
- Bring your CV and your slides (ppt)
- Try and avoid the use of your personal computer

Session Chairs

- Before starting the session : gather all the material (presentations / CV).
- Ensure and maintain the schedule
- In case of a missing presentation, make a break so as to keep the initial schedule
- Evaluate the papers for potential post-conference publications
- For any problem, please refer to the « floor Technician »

Track Organizers

- Evaluate the papers for INCOM'2006 Prizes
- Complete the evaluation for potential post-conference publications

May, 17th - Morning

Transport

[07:30/07:45] 2 Shuttles from Hotel CAMPANIL/ IBIS /ALBATROS (« La Terrasse »)

OPENING CEREMONY

[09:30-10:30] Congress Hall

SESSIONS

[10:30-12:30] 15 parallel sessions

Room#1 to #11: Ecole des Mines, Floor #1 and #2

Room#12 to #15: Congress Centre, Floor #1

Lunch

[12:30-14:00] Congress Centre, Floor #0

■ May, 17th - Afternoon

SESSIONS

[14:00-16:00] 15 parallel sessions, Room#1 to #15

Coffee Break

KEYNOTE SPEECH

[16:30-17:15] Congress Hall

Robotics, Agents, and e-Work: The Emerging Future of Production

Pr. Shimon Y. Nof, Purdue University, USA.

Interoperable Enterprise Systems: Architectures And Methods

Pr. François B. Vernadat, European Commission, Luxemburg.

Transport

[18:15]

2 Shuttles to Hotels CAMPANIL and IBIS. Then at 19:30 to the Banquet

[19:30]

Shuttles from Congress Center to the Banquet

BANQUET

[20:00-23:30]

Les « Foreziales », Monrond les Bains.

Transport

[23:45]

Shuttles to all the Hotels

May, 18th - Morning

Transport

[08:15/08:30] 2 Shuttles from Hotel CAMPANIL/ IBIS /ALBATROS (« La Terrasse »)

KEYNOTE SPEECH

[09:15-10:00]

Congress Hall

**Distributed Real-time Embedded Systems: Recent Advances,
Future Trends and Their Impact on Manufacturing Plant**

Pr. Carlos Eduardo Pereira, Fed. Univ. of Rio Grande do Sul, Brazil.

Coffee Break

SESSIONS

[10:30-12:30]

Oral Sessions: Room#1 to #15.

Poster Sessions: Room#19 (Floor#0, « Ecole des Mines »)

INDUSTRIAL EVENTS

[09:00-19:00]

Exhibition: just outside the Congress Hall

[08:30-18:00]

BPM'2006:Room#16, Business Process Management

[08:30-18:00]

EMM'2006:Room#16, Integrated Engineering

Lunch

[12:30-14:00]

Congress Centre, Floor #0

May, 18th - Afternoon

VISITS

[14:00-14:30] Poster Sessions: Room#19
Academic and Industrial Exhibition

KEYNOTE SPEECHES

[14:30-15:15] **How Do Quantity and Quality Really Interact? Precise Models Instead of Strong Opinions**
Dr. Stanley B. Gershwin, Massachusetts Institute of Technology, USA.

[15:15 -16:00] **Scheduling: New Trends in Industrial Environment**
Dr. Jean-Marie Proth, Consultant, France.

SESSIONS

[16:30-18:30] Oral Sessions: Room#1 to #15.

INDUSTRIAL EVENTS

[08:30-19:00] Exhibition + BPM'2006 (Room#16) + EMM'2006 (Room#16)

Transport

[18:15] 2 Shuttles to the Hotels CAMPANIL / IBIS / ALBATROS.

Piano Concert

[19:00] A short Walk to the Esplanade theater
[19:30-21:30] Evgeni Koroliou, Goldberg Variations of Johann Sebastian BACH
[21:45] 4 shuttles towards the hotels

May, 19th - Morning

Transport

[07:45/08:00] 2 Shuttles from Hotel CAMPANIL/ IBIS /ALBATROS (« La Terrasse »)

KEYNOTE SPEECH

[08:30-09:15] **Data Mining in Design of Products and Production Systems**

Pr. Andrew Kusiak, University of Iowa, USA.

[09:15-10:00]

Reinforcing Industrial Districts: need for a structured approach

Pr. Agostino Villa, Politecnico di Torino, Italy.

Coffee Break

SESSIONS

[10:30-12:30] Oral Sessions: Room#1 to #15.

Poster Sessions: Room#19 (Floor#0, « Ecole des Mines »)

INDUSTRIAL EVENTS

[09:00-19:00] Exhibition

[08:30-17:30] JT'2006: Room#16, Architecture - Management of Information Systems

[08:00-16:30] EMM'2006:Room#16, The Deployment of Mechatronics in Industry

Lunch

[12:30-14:00] Congress Centre, Floor #0

May, 19th - Afternoon

VISITS

[14:00-14:30] Poster Sessions: Room#19
Academic and Industrial Exhibition

SESSIONS

[16:30-18:30] Oral Sessions: Room#1 to #15.

INDUSTRIAL EVENTS

[08:00-17:30] Exhibition + BPM'2006 (Room#16) + EMM'2006 (Room#16)

CLOSING CEREMONY

[17:00-18:00] Closing speeches
Award ceremonies:

Industrial Prize
Young Author Prize
Track Prizes

Transport

[Morning] We can book in advance collective shuttles towards the airport
[Afternoon] Please let us know as soon as possible your needs (Entrance desk).

IPC Members Diner

[20:30] Please would you mind confirming your presence (Entrance desk).
Restaurant « L'escargot d'Or », Town Center.

And after ...

✓ ELSEVIER PROCEEDINGS

To be published and available for sale within the next 6 months.
For any purchase, please contact directly the IFAC Secretariat.

✓ POST-CONFERENCE PUBLICATIONS

16 associated Journals

Up to September, 2006: Selection by IFAC Affiliated Journals

After September, 2006: Complementary Selection for other Journals

✓ INCOM'2009 ???

Meanwhile, we wish you

- ✓ An excellent symposium !
- ✓ A very pleasant stay in St Etienne and at the Ecole des mines !