

IFAC TECHNICAL COMMITTEE (TC) ANNUAL REPORT

(Please Submit to Your CC Chair with Copy to IFAC Secretariat)

1. Report Date: 30/03/2011
2. TC Name: Enterprise Integration and Networking
TC Number (e.g. 2.1) : 5.3
3. TC Chair Name: Hervé PANETTO
E-Mail : Herve.Panetto@cran.uhp-nancy.fr

4. TC Vice Chair Name(s) and E-Mail Addresses (Please include all Vice Chairs):

TC Vice Chair Name

E-Mail

Lawrence WHITMAN

Larry.Whitman@wichita.edu

5. Number of TC Members

33

6. List of Working Groups:

Working Group Name	Name of Chair	E-Mail Address
Unified Enterprise Modelling Language (UEML) for Applications interoperability	Giuseppe Berio	giuseppe.Berio@univ-ubs.fr
Focus	Advance the technology frontiers of Enterprise Modelling (EM) and establish a common modelling language (the UEML) to enable enterprise model exchanges and interoperability between proprietary tools supporting different languages and enterprise applications using enterprise models. Reach a common knowledge about ontology for enterprise integration in order better formalise the semantics of models exchange at the business and the manufacturing levels of the enterprise.	
Working Group Name	Name of Chair	E-Mail Address
Enterprise architecture and reference models	David Chen	david.chen@laps.ims-bordeaux.fr
Focus	State-of-the-art on enterprise reference architectures and models, comparison studies, harmonisation and integration of existing reference architectures and models through standardisation	
Working Group Name	Name of Chair	E-Mail Address
Verification and Validation of Enterprise Models	Vincent Charpulat	vincent.chapurlat@ema.fr
Focus	Modelling concepts for Verification, Validation & Assessment of Enterprise Models to capture needs (user's confidence, interoperability - functional, structural, operational -, requirements verification), describe formal and semantic models, and define tools using architecture description languages to simulate, evaluate and test models.	

7. Date of Last TC Meeting	28/10/2010
Location of Last TC Meeting	Hersonissou, Crete (Greece) at EI2N'2010

8. Information about Last Year's Events for which the TC was Main Sponsor :

Name of the Event	City	Date	Approximate Total Attendance	Approximate Percentage Industry Attendance(%)	Number of Papers Recommended for Publication in IFAC Journals
Comments about Event(Quality, Industrial Relevance, etc.)					
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9. Information about Last Year's Events for which the TC was Co-Sponsor :

Name of the Event	City	Date	Approximate Total Attendance	Approximate Percentage Industry Attendance(%)	Number of Papers Recommended for Publication in IFAC Journals
EI2N'2010: 5rd IFAC/IFIP International Workshop on Enterprise Integration, Interoperability and Networking	Hersonissou Greece	27/10/2010 Duration (Days) 2	40	30	0

Comments about Event(Quality, Industrial Relevance, etc.)

The workshop was also supported by the IFIP WG 8.1. 30% of the submissions have been accepted. Strong discussions about Interoperability issues in Collaborative Information Systems (<http://tc.ifac-control.org/5/3/events/ei2n2010-folder>). 1 keynote invited speaker (Michael Sobolewski (Polish-Japanese Institute of IT, Poland))

Name of the Event	City	Date	Approximate Total Attendance	Approximate Percentage Industry Attendance(%)	Number of Papers Recommended for Publication in IFAC Journals
ENIM/IFAC MOSIM'2010: 8th ENIM/IFAC International Conference on Modelling and Simulation	Hamamet Tunisia	10/5/20010 Duration (Days) 3	303	20	20

Comments about Event(Quality, Industrial Relevance, etc.)

Great scientific conference with a strong participation from the community. The TC organised an invited session. Extended version of the papers have been submitted to a special issue of IJCIM

Name of the Event	City	Date	Approximate Total Attendance	Approximate Percentage Industry Attendance(%)	Number of Papers Recommended for Publication in IFAC Journals
IFAC HMS'2010: 11th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems	Valenciennes France	31/08/2010 Duration (Days) 4			

Comments about Event(Quality, Industrial Relevance, etc.)

Name of the Event	City	Date	Approximate Total Attendance	Approximate Percentage Industry Attendance(%)	Number of Papers Recommended for Publication in IFAC Journals
IFAC MCPL'2010: MCPL'2010: 5th IFAC Conference on Management and Control of Production and Logistics	Coimbra Protugal	8/9/2010 Duration (Days) 2			

Comments about Event(Quality, Industrial Relevance, etc.)

Name of the Event	City	Date	Approximate Total Attendance	Approximate Percentage Industry Attendance(%)	Number of Papers Recommended for Publication in IFAC Journals
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Comments about Event(Quality, Industrial Relevance, etc.)	Country	Duration (Days)			
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10. List of Future Events for Which the TC will be Main Sponsor :

Name of the Event	City	Country	Date	Duration (days)
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11. List of Future Events for Which the TC will be Co-Sponsor :

Name of the Event	City	Country	Date	Duration (days)
IFAC World Congress 2011	Milan	Italy	28/08/2011	5
EI2N'2011	Hersonissou	Greece	19/10/2011	2
Industry case Studies Program at CoopIS'2011	Hersonissou	Greece	21/10/2010	1
INCOM'2012	Bucharest	Romania	23/05/2012	3
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12. WWW Address for TC's Homepage: http://

13. Is this TC contributing to a Milestone Report to be prepared by its CC?

Yes No

14. Has this TC prepared a Professional Brief?

Yes No

If yes, please provide Title of Professional Brief

15. For Congress Year Report ONLY: Number of Congress Papers Reviewed by TC

16. Other TC Accomplishments

(Additional information not reported elsewhere, e.g. Manuscripts, Web-based events, Articles for IFAC publications, Identification of Affiliate Journals, E-newsletters, etc.); please describe.

The number of members in the TC has been decreased to 33, removing non active members. The objective is to have 10 more members belonging to industry

- the EI2N'2010 workshop attracted a big audience and was a success

- Special issue of Enterprise Information Systems journal, based on EI2N'2010 is being prepared

- The TC organises 2 invited sessions at the IFAC World Congress 2011

17. Plans for TC

(Activities in addition to meeting events described above; Manuscripts, Web-based events, Articles for IFAC publications, Professional Briefs, Affiliate Journals, E-newsletters, etc.); please describe

- Professional Brief will be proposed related to “Practical Applications of Enterprise Reference Models in Manufacturing and Service Industries”
- Create a Virtual Professional Community among all the TC 5.3 members using available information technologies and webpage information for each TC 5.3 working group.
- The TC would like to organise, each year, a special issue of an international journal in relationship with WG topics.
- The Industry Case Studies program, to be held in Crete on October 2011, should attract a big audience from Industry. The PC of this program is composed of more that 40 people from industry.

18. Problems

(Especially any that require Technical Board attention); please describe

Some TC members nominated by NMO’s are not responsive to many requests.

Are there any changes that IFAC Technical Board should make in this TC at this time? If so, please describe

NONE

19. For Congress Year Report ONLY: What is long term outlook for the technology of your TC?

Please describe likely future major developments within the scope of this TC

Future major developments of the TC includes :

- Ambient intelligence in manufacturing systems
- Systems Engineering applied to virtual enterprises formation
- Internet-of-Things and its related scientific foundations
- Interoperability of enterprise systems formal assessment and scientific foundations.

20. Recommendations

(Please provide recommendations relevant to TC operation such as potential new Working Groups, Recommendations to merge this TC with another TC, New trends within the technical field covered by the TC that suggests future changes in IFAC scope or activities, etc.)

NONE