Call for Papers

Scope

New challenges are coming up with the new generation of industry 4.0 with its economic constraints and new issues. This situation requires a thorough understanding of such issues so to train a new generation of engineers, scientists and experts. New operational requirements in relation with big data technologies implementation must be considered. The industry future requires yet advanced, innovative and efficient interdisciplinary solutions. Today, the manufacturing systems involve, more and more, interacting ubiquitous devices of robotics, mechatronics and software technologies of information and communication. Another big issue is the constantly increasing volumes of data produced by such devices embedded with cyber-physics functions, essential for decision support. So, the new decision support tools must be reactive, with instantaneous information retrieval, in a more and more complex environment, while securing a comfortable place to human being. The service integration to the product or production system from its conception must therefore become systematic in order to anticipate all needs, better plan their downtimes, optimize the resources exploitation, and capitalize in a better way and value their knowledge. **Notice: the Conference Proceedings will be published by Springer.**

Conference objectives

a) promote awareness of the importance of cyber-manufacturing and mechatronic systems in the industry 4.0 context,

b) present advanced strategies and methods for modeling, simulation, control, optimization, performance analysis and management of cyber-manufacturing systems,

c) foster views and knowledge exchanges between scientists and experts in industrial engineering, on the latest developments in advanced manufacturing based on cyber-physical systems at the dawn of a new generation of industry,

d) stimulate collaborations between academia and industry around joint projects to provide anticipated answers to the emerging problems of the new generation industry.

Targeted audience

The development and efficient exploitation of the industry of the future include experts in engineering (mechanics, mechatronics, robotics, electro-mechanics, embedded electronics, cyber-physics), information and communication, human-computer interactions interfaces, big data collection and analysis, decision support and system engineering.

The event is both scientific and industrial. It aims at bringing together researchers and industrial experts, to discuss recent innovations and trends in technology development and scientific research fields for the industry of the future.

Conference topics

The conference topics cover all major aspects of engineering and sciences, including, but are not limited to:

1. Cyber-manufacturing systems modeling & simulation
2. Performance assessment and monitoring of damage
3. Operational research in new methods and challenges
4. Multi-criteria analysis and decision support
5. Information system and safety for the industry 4.0
6. Optimal design of cyber-manufacturing systems
7. Embedded electronic systems for industry
8. Energy efficiency in advanced manufacturing
9. Quality, reliability & resilience in cyber-manufacturing
10. Monitoring and diagnostics in cyber-manufacturing
11. Perspective of IoT in cyber-manufacturing systems
12. IoT based supply chain management & logistics
13. Cyber-manufacturing engineering training
14. Computational intelligence in cyber-manufacturing
15. E-Business integration for industry of the future

Conference language

English is the conference official language. All materials concerning the ICMEM'2017 should be written in English. All oral presentations, discussions and posters will be in English. No simultaneous translation will be provided.

Important dates

15 April 2017: Call for Papers (**with extended deadlines**)
1st May 2017: Papers submission opening
24 Nov. 2017: **New deadline** for papers submission
29 Nov. 2017: Acceptance notification
3rd Dec. 2017: Reception of camera-ready

1st Dec. 2017: Provisional Program
1st Nov. – 08 Dec. 2017: Registration
10 Dec. 2017: Welcome reception and Social Program.
11-12 Dec. 2017: Conference dates
The final paper will be required after the conference

Organizing Academic Institutions

UNIVERSITÉ DE LORRAINE   LCOMS   .eniM École nationale d'ingénieurs de Metz   Nanjing University of Science and Technology

Guests of the conferences
Four industrial and academic experts are invited to deliver keynote speeches on industry 4.0 development challenges.

Submission
Authors are invited to submit original papers that MUST NOT have been submitted to or published in any other workshop, conference, or journal. For significance, accuracy, originality, and clarity, the Program Committee will review all papers. Papers must be up to 8 pages and follow the double columns format. Accepted papers will be included in the conference proceedings. Extended version of selected accepted papers will be considered for journal special issue.

Poster Sessions
Dedicated poster sessions are offered and will be moderated.

Publication of the proceedings
The conference Proceedings will be published with Springer. Original papers will be selected and published in a special issue of an international scientific journal.

Organization committees

Conference General Chairs
Prof. Kondo H. Adjallah, ENIM, University of Lorraine, France
Prof. Liao Wenhe, Nanjing Univ. of Science & Technology, China

Conference Program Chairs
Prof. Pierre Chevrier, ENIM, University of Lorraine, France
Prof. Imed KACEM, Université de Lorraine, France
Prof He Yong, Nanjing Univ. of Science & Technology, China
Prof. Yuan Juntang, Nanjing Univ. of Science & Technology, China

Conference Organization Chairs
Prof. Camel Tanougast, University of Lorraine, France
Dr. Alexandre Sava, ENIM, University of Lorraine, France
Prof. Yang Guolai, Nanjing Univ. of Science & Technology, China

Special Sessions Chair
Prof. Wang Huifen, Nanjing Univ. of Science & Technology, China
Dr. Laroche Pierre, University of Lorraine, France

Communication Chair
Dr. Zhouhang Wang, ENIM, University of Lorraine, France

Instruction to authors
For the conference, original papers neither presented nor published at national or international meetings are expected. Authors are invited to submit a paper of 8 pages maximum of their regular papers through the conference website no later than 24 November. This manuscript must include at least an introduction, the scope of the paper, the main advances, theories and/or applications, the main results and conclusions, with the appropriate references. Also, it must be original with accessible added value to the reviewers.

For special sessions, authors must also submit a paper of 8 pages maximum, through the conference website no later than 24 Nov. Special sessions papers must address key issue in applied research, engineering & innovation in cyber-manufacturing and mechatronics.

Upon receipt of a submission, the author will receive an e-mail confirmation from ICMEM. Therefore, it is necessary that all authors provide a valid e-mail address and configure the related inbox to accept e-mails from the organizing and program committees. In case of address change, the author must provide the new contact information to the ICMEM Program Committee.

Papers review process
Authors will be notified by 29 November 2017 of their paper status. Authors of accepted papers must submit the full paper of 8 pages max with a completed Copyright form, not later than 3rd December 2017. Authors are required to submit complete drafts on 3rd Dec. 2017. The program committee and the conference editorial board will review the candidate papers once again after the conference, which will also be subjected to plagiarism detection tool. The program committee will check for a last time the camera-ready, before final publishing in the conference proceedings.

By submitting a paper, the author is accepting the condition that a candidate paper may be rejected at any time if the program committee determines that the author fails to comply with the conference deadlines or policies, or if the program committee determines that the content of the paper quality is not sufficient to be published in the Proceedings.

Click here to submit a paper

By submitting an extended abstract, the authors accept the condition that if the paper is accepted, it must be registered and presented by at least one-author participant to the conference, before its ultimate publication into the Proceedings.

Paper format
Papers length must not exceed 8 pages and follow a double columns publication format as it follows:

All printed material, including text, illustrations, and charts, must be kept within a print area of 17.5 cm wide by 22.54 cm high. Do not write or print anything outside the print area. All the main text must be printed in Times 10 points, formatted in two-column, and fully justified. Columns wide are 8.25 cm, with 0.8 cm inter-column.
A format sheet with the margins and placement guides is available in Word, Latex and PDF files as <format.doc>, <format.zip> and <format.pdf> on the ICMEM website. It contains lines and boxes showing the margins and print areas.

Main Title
The main title (on the first page) should begin at 3.5 cm from the top edge of the page, centered, and in Times 14-point, boldface type. Capitalize the first letter of nouns, pronouns, verbs, adjectives, and adverbs; do not capitalize articles, coordinate conjunctions, or prepositions (unless the title begins with such a word). Leave two blank lines after the title.

Author Name(s) and Affiliation(s)
Author names and affiliations are to be centered beneath the title and printed in Times 12-point, non-boldface type. Multiple authors may be shown in a two- or three-column format, with their affiliations below their respective names. Affiliations are centered below each author name, not bold. If possible, include e-mail addresses. Two blank lines must follow author's information before main text.

Second and Following Pages
The second and following pages should begin at 2.54 cm from the top edge. On all pages, the bottom margin shall be for US letter (8.5 x 11-inch) paper at 2.86 cm from the bottom edge of the page; for A4 paper it shall be at 4.13 cm from the bottom edge of the page.