International Journal of Automation Technology (IJAT)

Call for Papers:

Special Issue on

Augmented Prototyping and Fabrication for Advanced Product Design and Manufacturing

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Guest Editor: Prof. Dr. Jouke Casper Verlinden, University of Antwerp, Belgium

The emergence of cyber-physical systems makes radical new products and systems possible. Throughout the design, manufacturing, use, maintenance, and end-of-life stages, digital aspects (sensing, inferencing, connectedness) influence the physical, and vice versa (digital fabrication, robotics). A key takeaway is that such innovations can augment human capabilities, to extend our mental and physical skills with computational and robotic support. Furthermore, agile development methods, complemented by mixed-reality systems and 3D-printing systems, enable us to create and adapt such systems on the fly, with almost instant turnaround times.

This special issue focuses on augmented prototyping and fabrication techniques for supporting advanced product design and manufacturing. Papers on the following topics (but not limited to) are expected. Review papers providing the current state-of-the-art or comprehensive outlooks concerning these topics are also welcome.

- Virtual reality/augmented reality/mixed reality applications to product design
- 3D environment for agile and collaborative product development
- Digital fabrication technologies for product development and prototyping
- Virtual prototyping technique for human-centered design
- Applications of 3D scanning and as-is/as-built modeling to design and manufacturing
- 3D printing and prototyping for medical applications
- Advanced 3D simulations for product design and manufacturing
- Applications of 3D human models to design and manufacturing
- 3D geometric modeling techniques to support the above topics
- Combinations of 3D scanning, augmented reality, and digital fabrication
- Case studies/industrial applications/good practices matching the above topics

***Speedy Review (1-2months for the first review)**
***IJAT is indexed in Scopus; Compendex (Ei-Index)**

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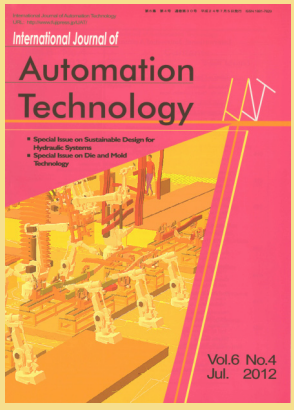

Pages and important deadlines:

Number of pages: 8 pages (but no limit) / 8,000 words
Manuscripts should be in IJAT formats of Microsoft Word, TeX.

Submission Deadline: ~~November 28, 2018~~ *Extension!*
December 26, 2018

Publication: July 5, 2019 (Vol.13 No.4)

Submit your papers to: [online submission site]
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*Paper is to be evaluated by two reviewers, then submitted to the IJAT Editing Committee for final selection. Reviews take about three weeks from paper receipt until notification of first review results.
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Publisher: Fuji Technology Press Ltd. Inquiry: auto@fujipress.jp
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