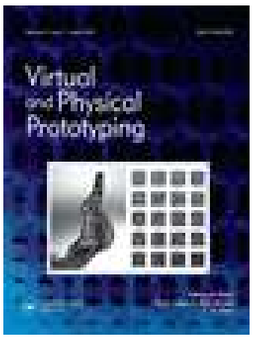

Virtual and Physical Prototyping

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Editorial

Paulo Bártolo & C.K. Chua

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Editorial

Welcome to a new year of 2011!

Looking back to 2010, *Virtual and Physical Prototyping* had a massive development in both publication and readership. There are totally 22 papers published in 4 issues for Volume 5. Top 10 downloaded articles are as follows (data on end of 2010).

1. **Biomanufacturing for tissue engineering: Present and future trends,** *Volume 4, Issue 4, December 2009, pages 203–216.* **Authors:** P. J. Bártolo; C. K. Chua; H. A. Almeida; S. M. Chou; A. S. C. Lim. Downloads: 652.

2. **New challenges for reverse engineering in facial treatments: How can the new 3D non-invasive surface measures support diagnoses and cures?** *Volume 5, Issue 1, March 2010, pages 3–12.* **Author:** Luigi Maria Galantucci. Downloads: 576.

3. **Reconstruction of subject-specific human femoral bone model with cortical porosity data using macro-CT.** *Volume 4, Issue 3, September 2009, pages 115–129.* **Authors:** Ponnusamy Pandithevan; Gurunathan Saravana Kumar. Downloads: 484.

4. **Indirect fabrication of microstructured chitosan-gelatin scaffolds using rapid prototyping**. *Volume 3, Issue 3, September 2008, pages 159–166.* **Authors:** Jiankang He; Dichen Li; Yaxiong Liu; Haibo Gong; Bingheng Lu. Downloads: 394.

5. **Morphology-controllable modeling approach for a porous scaffold structure in tissue engineering.** *Volume 4, Issue 3, September 2009, pages 149–163.* **Authors:** Shengyong Cai; Juntong Xi. Downloads: 383.

6. **Charpyimpact testing of metallic selective laser melting parts.** *Volume 5, Issue 2, June 2010, pages 89–98.* **Authors:** Evren Yasa; Jan Deckers; Jean-Pierre Kruth; Marleen Rombouts; Jan Luyten. Downloads: 364.

7. **Personalised bone tissue engineering scaffold with controlled architecture using fractal tool paths in layered manufacturing.** *Volume 4, Issue 3, September 2009, pages 165–180.* **Authors:** Ponnusamy Pandithevan; Gurunathan Saravana Kumar. Downloads: 359.

8. **Product development for Chinese calligraphy using reverse engineering and rapid prototyping.** *Volume 1, Issue 4, December 2006, pages 259–269.* **Authors:** C.S. Wang; T.R. Chang; C.Y. Hsiao; C.K. Teng. Downloads: 340.

9. **Shape optimization of uncemented hip prostheses.** *Volume 1, Issue 3, September 2006, pages 147–158.* **Authors:** Rui B. Ruben; João Folgado; Paulo R. Fernandes. Downloads: 316.

10. **Towards direct transformation of orthographic-view drawings into a prototype.** *Volume 4, Issue 2, June 2009, pages 75–90* **Authors:** Paphakorn Soonanon; Pisut Koomsap. Downloads: 309.

Looking forward, *Virtual and Physical Prototyping* will be published online only from 2011. This change allows the articles with more supplementary data sets, colour images, animation and videos to be published, which will greatly enhance the content experience of the journal. The online journal will continue to be available through Taylor & Francis' InformaworldTM platform at http://www.informaworld.com/NVPP.

Meanwhile, Virtual and Physical Prototyping will continue providing an international forum for professionals and academics to exchange novel ideas and disseminate knowledge covering the full range of activities related to the multidisciplinary area of virtual and rapid prototyping. Areas of focus include but are not limited to:

- CAD and 3D data acquisition technologies: fast geometrical modelling schemes, 3D digitising, X-ray tomography, photogrammetry, image-based modelling systems
- Virtual environments: virtual engineering and manufacturing, virtual enterprise engineering, Internet-based product development, rapid prototyping simulation and optimisation, new methods for virtual prototyping
- additive manufacturing: advances in rapid prototyping technologies, bio-inspired routes for novel bio-manufacturing strategies, computer modelling of rapid prototyping
- Rapid tooling and manufacturing: advances on material removal and addition technologies, research on new rapid prototyping technologies, micromachining, nanofabrication, high speed machine technology, small batch production methods, systems for the direct manufacturing of metallic and ceramic components

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- Advanced rapid prototyping materials, biomaterials for medical applications
- Concurrent engineering: concurrent engineering in virtual environment, frameworks for information sharing, collaborative decision-making in concurrent engineering, concurrent design and manufacture

All published research articles in this journal have undergone rigorous peer review, based on initial editor screening and anonymous refereeing by independent expert referees. The editorial board and reviewers will work together to maintain the short processing time for the submitted articles.

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