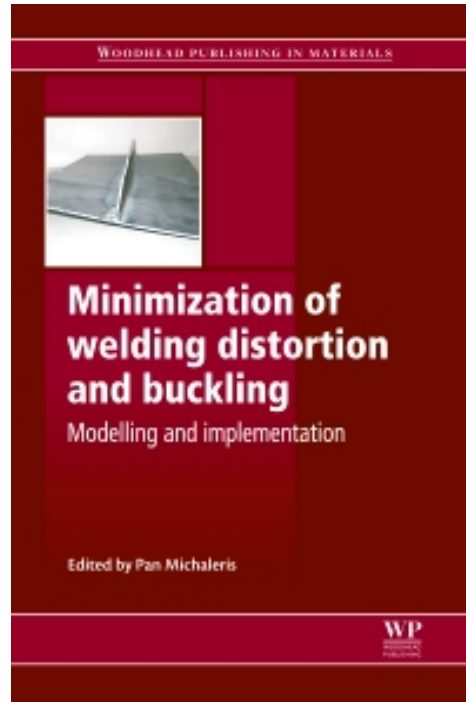




**Professor Panagiotis Michaleris**



Pan Michaleris (Editor), Minimization of Welding Distortion and Buckling, Modelling and Implementation, Woodhead Publishing, 2011

See:

<http://www.cimp-3d.org/keypersonnel>

[http://store.elsevier.com/Pan-Michaleris/ELS\\_1170911/](http://store.elsevier.com/Pan-Michaleris/ELS_1170911/)

[https://www.amazon.com/s?ie=UTF8&page=1&rh=n%3A283155%2Cp\\_27%3APan%20Michaleris](https://www.amazon.com/s?ie=UTF8&page=1&rh=n%3A283155%2Cp_27%3APan%20Michaleris)

<http://ahpcrc.stanford.edu/content/michaleris-workshop-abstract>

<http://www.mne.psu.edu/news/15-promotions.aspx>

Mechanical Engineering, Pennsylvania State University, University Park, PA  
Senior Software Architect at Autodesk

### **Biography:**

Dr. Michaleris has over 25 years of experience in high performance computing and thermo-mechanical process modeling such as additive manufacturing, welding and thermal forming. After receiving his Ph.D., Dr. Michaleris joined Edison Welding Institute (EWI) as senior research engineer. In 1997 he joined the faculty of the Department of Mechanical and Nuclear Engineering of The Pennsylvania State University pursuing teaching and research in computational mechanics, finite element methods, manufacturing process modeling, and residual stress and distortion. In 2012 Dr. Michaleris co-founded Pan Computing LLC for the development and support commercial software for physics-based modeling of additive manufacturing processes, which was acquired by Autodesk in 2016.

### **Selected Publications:**

#### **Book:**

Pan Michaleris (Editor), Minimization of Welding Distortion and Buckling, Modelling and Implementation, Woodhead Publishing, 2011

**Journal Articles:**

P. Michaleris, DA. Tortorelli and CA Vidal, "Tangent Operators and Design Sensitivity Formulations for Transient Nonlinear Coupled Problems with Applications to Elastoplasticity", *Int J Numer Meth Eng*, Vol 37, pp. 2471-2499, (1994).

Michaleris P., Debiccari A., " A predictive technique for buckling analysis of thin section panels due to welding," *Journal of Ship Production*, Vol.12, No. 4, 1996, pp. 269-275.

Michaleris P., Debiccari A., "Prediction of welding distortion," *Welding Journal*, Vol. 76, No. 4, 1997, pp. 172-180.

Michaleris P., Deo M.V., Sun J., "Prediction of buckling distortion of welded structures," *Science and Technology of Welding & Joining*, Vol. 8, No.1, 2003, pp. 55-61.

Song J, Shanghvi JY, Michaleris P (2004) Sensitivity analysis and optimization of thermo-elasto-plastic processes with applications to welding side heater design. *Comput Method Appl Mech Eng* 193:4541–4566