Nowadays, Materials Processing Engineering (MPE) is considered as an interdisciplinary field of Engineering commonly related with Manufacturing Engineering. The importance of this subject makes highly relevant the learning-teaching process of MPE. Thus, Materials Processing Learning and Training must be accompanied by different sets of workshops and lab practical experiences. Generally, the equipment needed to be applied in these labs or workshops is very expensive and it can be remain obsolete in a few years. On the other hand the continuous materials evolution provokes topic change necessities. Innovative education techniques based on information and communications technologies are currently under consideration in order to improve the materials processing learning and training.

This Volume of Materials Science Forum titled *New Frontiers in Materials Processing Learning and Training* reports the latest developments and original applications, theoretical researches and case studies in the innovative education field applied to Materials Processing Engineering and Technologies. The papers included in this issue have been selected from those presented to the Second Special Symposium on New Frontiers in Materials Processing Learning and Training of the 18th Innovative University Technical Learning, hold in Santander (Spain) in July 2010.

We hope that all the papers here published can also favour the future development of new learning and training techniques in other disciplines.

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