**16th International Conference on Computational Methods – Mini-symposium Proposal**

***Mini-symposium title:* Atomistic Modelling for Advanced Alloys**

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(Please include a brief introduction of the MS, less than 250 words) Advanced metallic alloys find vast technological applications in engineering. To facilitate their manufacturing and engineering implementations, it is vital to understand their mechanical properties and the underlying mechanisms. Extensive experimental, theoretical, and computational efforts have been devoted at atomistic scale to understand their mechanical behaviours. With the intrinsic atomistic insights, atomistic simulations play a crucial role in understanding the microscopic mechanism in metallic materials, which also enable the on-demand design of advanced alloys. This mini-symposium intends to bring the recent progress on atomistic simulations for the mechanical properties or deformation mechanisms of various advanced alloys.