



High Performance computing (HPC) is an emerging general-purpose technology. It can process massive data with unprecedented efficiency, thus drastically increasing innovative capacity of industrial companies (including SMEs) by shortening product development cycle and simulating complex industrial value chains. While investments in the most advanced HPC infrastructure can be prohibitively expensive, it can be accessed and operated remotely.

This is particularly relevant in the Danube region, a rather curious European macro-region, which includes some of the most developed (e.g. Baden-Württemberg, Bavaria, Austria) and least developed (e.g. Moldova, Ukraine) parts of Europe. While most advanced HPC infrastructure and knowledge are located in well-off western parts of the Danube region, enterprises – especially SMEs – from its eastern parts have limited access and competencies. Investment in appropriate soft and hard skills for both providers (academia) and users (SMEs) of HPC can considerably improve utilization of already existing infrastructure, boost transnational co-operation in the region and accelerate technology transfer.



# GO WITH THE FLOW

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Urska Fric (eds.)



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High Performance Computing and  
Innovations in the Danube Region

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