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To
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Divisions

Advanced
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Letter of Support for the proposal MagnaData
Alexandru Iosup, PI

Dear Alexandru,

I am writing this letter to express my desire to collaborate with you on developing new resource management and scheduling techniques you are proposing at part of the VID I proposal MagnaData.

I am aware of the competitive nature of the VID I proposals, equivalent to the NSF CAREER personal grants, and find that your academic quality qualifies you among the top 5-10% researchers in the world for your age category. The MagnaData proposal is of outstanding scientific quality and can result in important transfer of knowledge with societal impact, which means in my view it would be granted as an NSF CAREER proposal should you apply there.

In my research at the USC Information Sciences Institute, I aim to develop techniques to support the execution of complex scientific applications on a variety of computational environments, including campus clusters, grids, and clouds. Through our Pegasus software, which is one of the world-leading open-source software packages that support scientists in using computational workflows daily, I am faced with real-world scientific and technical challenges, and support hundreds of real users. My research is funded by the National Science Foundation, by the National Institutes of Health, and by the Department of Energy. Thus, in relationship with MagnaData I will play a role of both advisor and mediator to real users.

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The results of the highly innovative MagnaData research could lead to important progress for Pegasus, complementing our systems' work and in particular allowing us to leverage a variety of new scheduling techniques, such as the groundbreaking portfolio scheduling and the scheduling of complex data services that change availability and performance requirements per task.

I would like to contribute to the MagnaData project with know-how, as member of your User Advisory Board. I will also contribute with advice on how to use open-access data from our Community Workflow Performance and Provenance Archive. I am willing to host a research visit sponsored by the MagnaData project, which will allow us to create a close collaboration and, after experiments using our unique experimental US-wide cloud platform, to make Pegasus an early adopter of your new technology.

I wish you all the best with your proposal and I look forward to our collaboration. MagnaData is an excellent project.



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