

Accelerating Science Using the Science Network

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Abstract—Social networking is a phenomenon that has revolutionized the way in which the world communicates. Applications like Facebook have become platforms for individuals to connect and share content with each other. Intuitively, many scientific disciplines may find utility in social networks, as they provide ideal environments for supporting collaboration. A number of efforts were initialized to bring such applications into production. Many, however, have received a lukewarm reception from the scientific community. This is due in part to the fact that these scientific social network applications, borrowing from established social networks like Facebook, remain human-centric, where content is meant to be processed by humans. As a result, scientists still must conduct science offline. We address this problem by introducing the Science Network, which enhances the traditional social network model with scientific discovery-centric associations. This provides scientists a platform for conducting their scientific activities online while seamlessly sharing their findings with others within the scientific community. Furthermore, the Science Network presents an opportunity to leverage algorithms that allow machines to process content within the network. This may supply interesting trends and patterns in the nature of scientific study in general. In this proposal, we will implement and research tools and technologies to realize the Science Network vision.

I. INTRODUCTION

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II. CONCLUSION

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