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Mining connecting concepts from synthetic big data

There is an unprecedented growth in synthetic big data such as research articles, patents, test reports and product description reports. Research organizations experience increasing difficulties in analyzing these data to identify existing solutions to their problems and to find collaborators (experts) in relevant domains. Existing search engines are incapable of intelligent processing information contained in synthetic big data to satisfy the growing need of organizations. There is an urgent need for next generation data mining tools. This talk will give an overview of the fundamental challenges of synthetic big data and will present innovative technology for mining connecting concepts from synthetic big data.

Biography

Alex V Vasenkov has received his PhD degree in Physics and Mathematics from the Russian Academy of Science in 1996. Between 1996 and 1999, he was Researcher and then Senior Researcher in the Institute of Thermophysics at the Russian Academy of Science. He was trained as a Postdoctoral fellow in the Department of Chemistry at the University of British Columbia in 1999-2001 and in the Department of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign in 2001-2003. From 2003 till 2013 he directed engineering modeling and related R&D efforts at CFD Research Corporation. He was awarded and successfully managed peer-reviewed grants and contracts from major federal agencies (DOE, NSF, and DoD) and private companies such as Samsung Advanced Institute of Technology. He was co-PI of consulting service projects for many industrial companies including MKS, Inficon, GE, CoorsTek, and Caterpillar. Most recently, he co-founded a small-business company Multi Scale Solutions focusing on the development and commercialization of scientific business intelligence software for applications in Life Science, Nanotechnology, and Materials. He established network within academia, industry, and national laboratories. He is executive editor of *Journal of Nanomedicine & Nanotechnology*. He authored/co-authored over 30 publications in peer-reviewed journals, 1 book chapter, and over 50 presentations at leading scientific conferences.

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