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Distinguished Seminar Computer Science

Big Data Analytics for Personalized Education

Dr. Mukesh Mohania, IBM Research, India

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CS 209

Abstract – Online courses and learning systems have been gained tremendous popularity over the last few years. While their ease of access and availability make them a very useful medium for knowledge sharing and learning, they do not keep the learners and their learning abilities in mind. The "one size fits all" approach to learning content does not work in a large virtual classroom consisting of diverse students with different skill profiles, learning styles, aptitude and capability. In a traditional classroom, teachers interact closely with students are in a position to evaluate the pace and depth of the curriculum being taught and can also suggest learning content to students not being able to cope with the general classroom teaching. Such suggestion and guidance is absent in current online learning systems. In this talk we aim to address this gap through learning content analytics and automatic content tagging that enables the adaptive and personalized education on Big Data platform.

Brief Bio - Mukesh Mohania is an IBM Distinguished Engineer and Chief Architect for Education Transformation area in IBM Research. He has worked extensively in the areas of distributed databases, data warehousing, data integration, and autonomic computing. He has received several awards within IBM, such as "Best of IBM", "Excellence in People Management", "Outstanding Innovation Award", "Technical Accomplishment Award", "Leadership By Doing", and many more. He has published more than 120 papers and also filed more than 60 patents in these or related areas, and more than 25 have already been granted. He is an IBM Master Inventor and a member of IBM Academy of Technology. He is an ACM Distinguished Scientist and an IEEE Golden Core member.