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HEALTH INFORMATION SCIENCE SEMINAR SERIES

Application of Modular Design to IT Systems and Healthcare Services

GUEST *SPEA*KER:

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Modular design is a powerful approach that has revolutionized industry after industry, from manufacturing, to technology, and now services. Modular design increases the ability for systems to scale, adapt, and to reach higher levels of performance. However, it also introduces integration complexities, which need to be actively managed at the interfaces of those modules. Healthcare technology, long dominated by monolithic systems such as traditional Electronic Health Records (EHRs) is now shifting to an ecosystem of interoperable applications with data standards and well-documented APIs. Paralleling this shift in health IT is a decades-long trend towards healthcare services specialization that is distributed among a large number of organizations serving the various healthcare and social support needs of patients. Both of these trends require a thoughtful and coherent approach in order to leverage the advantages of module-level specialization while ensuring effective coordination among the modules. This discussion will focus on the application of modular design in healthcare technology development and in healthcare service operations, with a review of recent research and insights from industry.

Dr.Farbod Hagigi is the Founder and CEO of ClinicalBox, Inc., a healthcare technology company advancing care coordination and patient engagement to achieve better outcomes at lower cost.

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