



Tuesday, December 14, 2021 | 11 AM to 1 PM EST (2 hours in duration)

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Key concepts of complexity science, such as nonlinearity, emergence and self-organization all follow from the old adage that the whole is greater than (or different from) the sum of the parts. The fact that we use the word parts (and like words such as components, elements, and even agents implies that nature may be broken into separate pieces, basic building blocks that somehow are brought together to produce coordinated behavior. The different forms that coordination takes and how it emerges and changes are of great interest to many disciplines, particularly the social and behavioral sciences, neuroscience, biology and physics. The science of coordination (Coordination Dynamics) seeks to understand how coordinated patterns of behavior form and change at many scales and for multiple functions in living things. This talk will review some of the main concepts, methods and tools of Coordination Dynamics along with recent developments of the theory that point to future research targets. A panel of scientists and action leaders will discuss insights that can inform real-world transformation in moving toward a better future.

The McGill Centre for the Convergence of Health and Economics (MCCHE) is a virtual world network of scientist, action and policy leaders promoting the weaving of digital-powered interdisciplinary science into person-centered domain-specific solutions at scale to global challenges faced by traditional and modern economy and society worldwide. The MCCHE stimulates lasting collaborations that bridge the many divides in the market, economy, and society that are at the root of these most pressing modern challenges through collaborative of modular convergence innovation platforms.

The Pittsburgh Supercomputing Center is a joint computational research center between Carnegie Mellon University and the University of Pittsburgh. Established in 1986, PSC is supported by several federal agencies, the Commonwealth of Pennsylvania and private industry. PSC provides university, government, and industrial researchers with access to several of the most powerful systems for high-performance computing, communications, and data-handling available to scientists and engineers nationwide for unclassified research. PSC advances the state-of-the-art in high-performance computing, communications and informatics and offers a flexible environment for solving the largest scientific, engineering, and business problems.

