



FOREWORD

With this inaugural issue, a new focused journal on computing, sensing, and control of Complex Systems, edited by my able and long-time peer Professor Simon Yang of the University of Guelph in Canada is launched. I welcome this publication with highest regards for the subject matter. It is a timely addition to the existing journals in Complex Systems.

Today, we live in 21st Century with complexity all around us. Today we are fast moving in an interconnected world and almost each and every phenomenon and new technology, including information technology, are all complex. Cyber-Physical Systems (intersection of Cyber space and physical space) is a key example of complex systems of this Century.

Complex systems and complexity represent problems on a vast variety of domains – from mathematics, to physics, chemistry, and biology, on to all aspects of engineering and even philosophy, among many others. Subsystems of complex systems are themselves often complex. A typical, but not unique, definition of a complex system is one which has very high dimension, nonlinear interactions, time delays, stochastic parameters, and now interconnections with other legacy systems, make available system engineering tools are not able to handle it. Hence new innovations are needed to handle complex systems. Computing, sensing and control are three of many important aspects of these systems which can help open the road to handling complex systems of this Century.

Once again, this is the dawn of another effort for handling the systems of 21st Century. It is recommended to consider cyber-physical systems (or system of systems) and many other areas of such systems. And once again, congratulations to Professor Simon Yang for launching this effort.

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