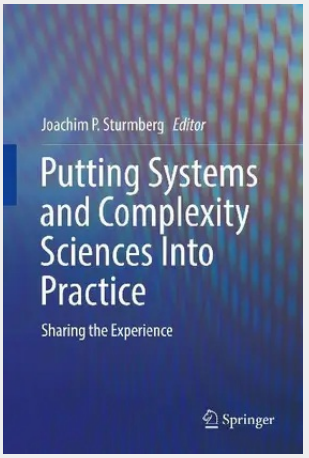
Sturmberg

Putting Systems and Complexity Sciences Into Practice

Sharing the Experience



This idea-packed resource takes systems and complexity sciences out of blue-sky territory and into the concrete world of contemporary healthcare practice. Beginning with a new reframing of health and illness, its chapters redesign traditional disease-centered models of care into modern, health-centered—and patient-centered—health service systems. The approaches shown here combine innovation and common sense to recognize and attend to patients' needs across areas including health education and training, information accessibility, health service organization and delivery, and disease in individual context. The variety of solutions applied to this wide spectrum of issues shows the suitability of systems, complexity, and adaptive thinking to the ongoing objectives of making health services more responsive, effective, and equitable.

Highlights of the coverage:

- Healthy smoker: an oxymoron? Maybe, but it is more complicated than that
- Transforming monitoring and improving care with variability-derived clinical decision support
- Linking Gulf War illness to genome instability, somatic evolution, and complex adaptive systems
- Complexity of knowledge in primary care: understanding the discipline's requisite knowledge: a bibliometric study
- New ways of knowing and researching: integrating complexity into a translational health sciences program
- Understanding the emergency department ecosystem using agent-based modelling

Putting Systems and Complexity Sciences into Practice is an inspiring idea book that sill interest health policymakers, health financiers, organizational leaders, healthcare administrators, clinicians, researchers, students, and interested lay readers.

Discusses how to successfully achieve change and avoid change fatigueDescribes why change is necessary but not sufficient and elucidates understanding the how and how toPresents scale-free system redesign and how it affects the continuum from the local to the global

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