A New Approach for Fighting Infectious Disease, Combining Game Theory and Network Theory

Abstract

Dr. Po-Shen Loh
Carnegie Mellon
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We are concerned with the weak solvability of the fourth-order elliptic problems with variable exponents. When dealing with exponents that vary, we are exposed to additional difficulties that appear in the calculus and often we are compelled to find new ways of approach. On the other hand, the presence of the variable exponents opens the door to novel and interesting applications involving non-Newtonian fluids, elastic materials, image processing, mathematical biology etc. Furthermore, the class of problems that we consider here involves nonhomogeneous differential operators that are more general than the usual p(x)-biharmonic operators.

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