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Bio/chemo-inspired electronic oscillators and their use in commanding/modulating optoelectronic and microelectromechanical systems

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Bio-inspiration has its way on technology since many years. Its present and future impact in medicine, security and defense issues is of special interest. This presentation reports on the design of electronic and microcontroller simulators of biological and chemical oscillators. Then we indicate how those bio/chemo oscillators can be used to monitor and command microelectromechanical systems, semiconductor lasers and optoelectronic oscillators for the generation of special actuation and special optical waves.

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