

Control of optical chaos spectrum in semiconductor laser for secure RoF communication

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A critical requirement in optical chaos based secure radio over fiber (RoF) system design is the ability to control center frequency, spectral bandwidth, power level and signature of chaos to submerge message with sufficient horizontal and vertical margins both in time and frequency domains. Once frequency domain masking is completely achieved, time domain masking is met automatically, the former being more stringent. In a direct modulated semiconductor laser, the three control parameters are bias current (I_{bias}), modulation current (I_{mod}) and modulation frequency (ω_m). It is found that I_{mod} increases bandwidth and amplitude dynamic range of chaotic pulses. I_{bias} increases the cavity power and hence average peak amplitude of laser chaotic pulses. The modulation frequency increases the speed of overall cavity dynamics and hence is used to increase the bandwidth of chaos but a corresponding increase in bias and modulation currents is required to support high repetition pulses. The results show relationship between three control parameters (bias current, modulation current and modulation frequency) in a direct modulated semiconductor laser and optical chaos bandwidth using regression.

Keywords: chaos, radio over fiber, secure optical communication.

1. Introduction

Chaos is ubiquitously found in both naturally existing and man-made complex nonlinear systems. The human heart pulsed ECG and human brain pulsed neuron signals are also inherently chaotic, specifically like the spiky or pulsed chaos produced by both semiconductor [1-5] and fiber lasers [6-10]. This fact emphasizes the importance of studying pulsed chaos in time domain, RF and optical spectral domains in this work. The intended application here is secure RoF communication, yet due to rich dynamics studied very systematically, this work may have further applications of interest in related areas. Optical chaos has been studied both numerically and experimentally for three decades in an effort to ensure physical layer security of analog and digital optical communication and EU funded field demonstration in Athens [2] has demonstrated the working of overall concept. Chaos is generated in both continuous nonlinear and dis-

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