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Nota di contenuto	Asynchronous spiking neuron based on four-wave mixing and cross absorption modulation -- OTDM-to-WDM conversion of complex modulation formats by time-domain optical Fourier transformation -- Constellation manipulation for optical multicasted hexadecimal coding/decoding of 10-Gbaud/s 16-QAM using non-degenerate FWM in HNLFs -- 320-to-40-Gb/s optical demultiplexing by means of optical filtering of chirped signal using a quantum-dot SOA -- Ultrafast nonlinear signal processing in silicon waveguides -- Nonlinear optics on the silicon platform -- Investigation of bandwidth dependence on chromatic and modal dispersion in MMF links using VCSELs -- Individual loss distribution measurement in 4-branched PON using pulsed pump-probe Brillouin gain analysis -- Nondestructive measurement of mode couplings along a multi-core fiber using a multi-channel OTDR -- Measuring distributed mode scattering in long, few-moded fibers.