

# CodeSScientific

## OCSim Modules

Fiber Optic Communication Systems Simulations

Advanced Software Modules with Matlab

**List of Selected Publications wherein OCSim Modules used for Simulations**

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## List of Selected Publications wherein OCSim Modules used for Simulations

Impulse response of nonlinear Schrodinger equation and its implications for pre-dispersed fiber optic systems

S. Kumar, J. Shao and X. Liang

Optics Express, vol. 22, pp. 32282-32292, 2014

[Abstract](#), [Full Paper](#)

Analytical modeling of cross-phase modulation in coherent fiber optic systems

X. Liang and S. Kumar

Optics Express, Vol. 22, Issue 9, pp. 10579-10592, 2014

[Abstract](#), [Full Paper](#)

Comparison of split-step Fourier schemes for simulating fiber optic systems

J. Shao, S. Kumar and X. Liang

IEEE Photonics Journal, vol. 6, no. 4, 7200515, August 2014

[Abstract](#), [Full Paper](#)

Optical back propagation with optimal step size for fiber optic transmission systems

S. Kumar and J. Shao

IEEE Photonics Technology Letters, vol. 25, pp. 523-526, 2013

[Abstract](#)

Optical backpropagation for fiber-optic communications using highly nonlinear fibers

S. Kumar and D. Yang

Optics Letters, vol. 36, pp. 1038-1040, 2011

[Abstract](#)

A fiber optic transmission system based on differential polarization shift keying

Z. Chen and S. Kumar

Optics Communications, vol. 284, pp. 4064-4069, 2011

[Abstract](#)

[Nonlinear phase noise in coherent optical OFDM transmission systems](#)

X. Zhu, and S. Kumar

Optics Express, vol. 18, no. 7, pp. 7347-7360, 2010

[Abstract](#), [Full Paper](#)

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