

## Joseph Goodman

William E. Ayer Professor of Electrical Engineering, Emeritus

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Electrical Engineering

### Publications

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#### PUBLICATIONS

- **Comparison of methods for exploiting symmetry in calculating the Fourier spectra of circularly symmetric functions** *OPTICAL ENGINEERING*  
Goodman, J. W.  
2020; 59 (8)
- **Coherent superresolution imaging via grating-based illumination** *APPLIED OPTICS*  
Wilde, J. P., Goodman, J. W., Eldar, Y. C., Takashima, Y.  
2017; 56 (1): A79-A88
- **Speckle: Friend or Foe?** *3rd International Topical Meeting on Optical Sensing and Artificial Vision (OSAV)*  
Goodman, J. W.  
AMER INST PHYSICS.2013: 5-7
- **Forward and Backward Propagation in Positive and Negative Index Materials** *Conference on Tribute to H John Caulfield*  
Goodman, J. W.  
SPIE-INT SOC OPTICAL ENGINEERING.2013
- **Very efficient speckle contrast reduction realized by moving diffuser device** *APPLIED OPTICS*  
Kubota, S., Goodman, J. W.  
2010; 49 (23): 4385-4391
- **Some Properties of Speckle from "Smooth" Surfaces** *International Conference on Advanced Phase Measurement Methods in Optics and Imaging*  
Goodman, J. W.  
AMER INST PHYSICS.2010: 3-11
- **Speckle with a finite number of steps** *APPLIED OPTICS*  
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2008; 47 (4): A111-A118
- **The ubiquitous speckle phenomenon** *Conference on Speckles, From Grains to Flowers*  
Goodman, J. W.  
SPIE-INT SOC OPTICAL ENGINEERING.2006
- **Image systems engineering at Stanford** *International Conference on Image Processing (ICIP-96)*  
Goodman, J. W., Wandell, B. A.  
IEEE.1996: 435-438
- **Panel discussion - The roles of university and industry in developing optical interconnect systems** *3rd International Conference on Massively Parallel Processing Using Optical Interconnections (MPPOI 96)*

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- **A POSSIBLE CDF DATA-ACQUISITION SYSTEM UPGRADE USING OPTICAL SWITCHING** *Frontier Detectors for Frontier Physics of the 6th Pisa Meeting on Advanced Detectors*  
Chalfant, C., Parker, J., Goodman, J. W., Gerrish, A., McAdams, L., Areti, H., Joshi, U.  
ELSEVIER SCIENCE BV.1995: 307–10
  - **A sixteen channel acousto-fiber-optic barrel shifter** *Conference on Photonic Device Engineering for Dual-Use Applications*  
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  - **OPTICAL AMPLIFIERS AND LIQUID-CRYSTAL SHUTTERS APPLIED TO ELECTRICALLY RECONFIGURABLE FIBER OPTIC SIGNAL PROCESSORS** *OPTICAL ENGINEERING*  
Moslehi, B., Chau, K. K., Goodman, J. W.  
1993; 32 (5): 974-981
  - **OPTICAL CROSSBAR SWITCH WITH SEMICONDUCTOR OPTICAL AMPLIFIERS** *Optical-Society-of-America Topical Meeting on Photonics in Switching*  
MCADAMS, L. R., Gerrish, A. M., KALMAN, R. F., Goodman, J. W.  
OPTICAL SOC AMERICA.1993: 116–119
  - **SPACE DIVISION SWITCHES BASED ON SEMICONDUCTOR OPTICAL AMPLIFIERS** *IEEE PHOTONICS TECHNOLOGY LETTERS*  
KALMAN, R. F., Kazovsky, L. G., Goodman, J. W.  
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  - **NOVEL AMPLIFIED FIBEROPTIC RECIRCULATING DELAY-LINE PROCESSOR** *JOURNAL OF LIGHTWAVE TECHNOLOGY*  
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