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Metasurface Optics for Information Processing and Computing

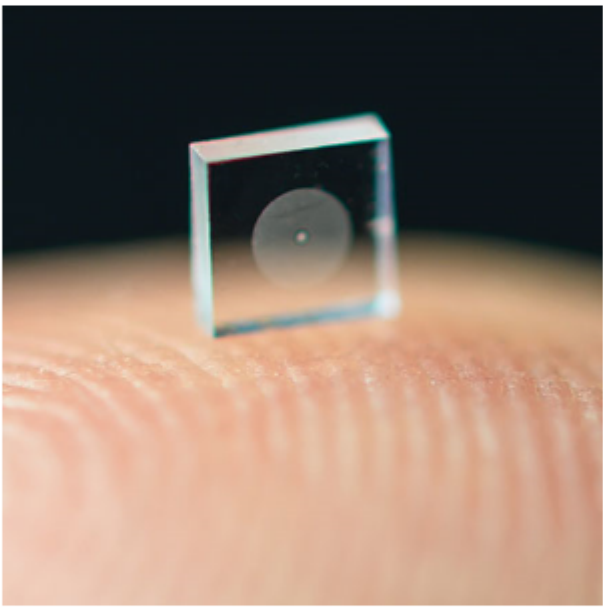
Thursday, October 9, 2025 1:00 PM - 2:00 PM EDT

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Metasurface optics—ultrathin, nanostructured elements capable of precise light manipulation—are revolutionizing optical information processing. By co-designing optical hardware with computational algorithms, these systems enable complex operations like spatial convolutions directly in the optical domain. This hybrid analog-digital approach offers new possibilities for faster, more efficient imaging and vision systems, while posing exciting challenges at the intersection of photonics, machine learning, and device integration. Sponsored by [Moxtek](#).



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