Mehr Licht!
More Photonics for Intelligence

#E19

#Customer Experience#Digital & AI Transformation#Digital Inclusion

Touchless Material Perception

Convey material impressions on everyday devices, even from afar

Technical Challenges & Goals

Remote transmission of material imressions was underdeveloped. In e-commerce, not experiencing materials often causes returns. In our tech, a camera captures user hands to operate screen objects. On the basis of visual material perception research, we control visual parameters to induce illusion of material texture.



Key Technologies

Core Technologies

- Leveraging NTT's accumulated achievements in vision research
- Novel perception technology based on illusions

Key Differentiators

- The world's first technology to remotely convey softness, slipperiness, and stickiness
- No special equipment required; experience it using everyday devices such as PCs and smartphones

Use Cases

Retail

Enabling online shoppers to perceive product materials without access to the physical item.

Exhibitors

NTT, Inc. Communication Science Laboratories

Related Links

https://group.ntt/jp/newsrelease/2026/05/12/260512a.html

CONTACT：Human Information Science Laboratory