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Titolo Emerging trends in terahertz engineering and system technologies :

devices, materials, imaging, data acquisition and processing //

Arindam Biswas [and three others], editors

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Artificial Intelligence -- Wearable Devices and IoT -- THz in Biotechnological Advances -- Novel materials and engineered structures in THz photonics -- Emerging trends in THz modeling -- Innovative fabrication technologies for novel THz devices -- Photonics for futuristic applications: THz sources, optical communications, imaging, detectors and sensors, optical data storage and displays,

medical optics and biophotonics.

Sommario/riassunto This book highlights emerging trends in terahertz engineering and

system technologies, mainly, devices, advanced materials, and various applications in THz technology. It includes advanced topics such as terahertz biomedical imaging, pattern recognition and tomographic reconstruction for THz biomedical imaging by use of machine learning and artificial intelligence, THz imaging radars for autonomous vehicle applications, THZ imaging system for security and surveillance. It also discusses theoretical, experimental, established and validated empirical work on these topics and the intended audience is both academic and

professional.