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Conference (Photonics 2023) held at IISc, Bengaluru on 5-8 July 2023. It covers topics across multiple areas of photonics, including established areas like optical communication and networks, quantum optics, non-linear and ultrafast photonics , nanophotonics , biophotonics and bioimaging, photonic integrated circuits , fibers and sensors, optical materials and fabrication techniques, optical metrology, and instrumentation, optofluidics, laser applications, optoelectronics. The book also covers emerging areas in photonics, such as THz photonics, structured Light, 2D materials, optomechanics, topological photonics, and AI/ML in photonics. The book will be useful for researchers and professionals interested in the broad field of photonics.