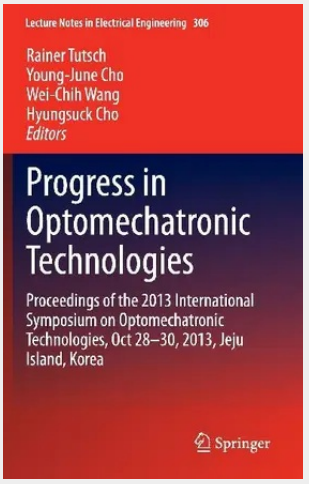
Tutsch / Cho / Wang

Progress in Optomechatronic Technologies

Proceedings of the 2013 International Symposium on Optomechatronic Technologies, Oct 28-30, 2013, Jeju Island, Korea

Optomechatronics, as a fusion of optical and mechatronic engineering, have played a key role in developing innovative products such as high precision instruments, defence, photonic systems, measurements, diagnostics, semiconductors, and so on. And optomechatronics technologies have greatly contributed to the state of the art industries in optics design, manufacturing, optical imaging, metrology, and other applications. This book covers a multitude of optomechatronics advantages and solutions. It includes 20 contributions featuring laser and fiber optics, nitride semiconductors, LIDAR technology, machine vision, optical imaging, micro optoelectro mechanical systems, optical metrology, optical-based sensors and actuators, optomechatronics for microscopes, optical pattern and fiber, optomechatronics for bio-medical applications, optomechatronics for manufacturing applications, robotics for micro and nano scales, and other applications. As revised and extended versions, the contributed articles are selected from the proceedings of the 2013 International Symposium on Optomechatronic Technologies held on Oct 28–30, 2013 in Jeju Island, Korea.

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