Special Issue Reprint

Mechatronics System Design in Medical Engineering

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As the healthcare sector adapts to the evolving standards of Industry 4.0, there is a pressing need for more intelligent, automated, and efficient solutions. This evolution demands cutting-edge research that meets the increasing technical and functional requirements of modern medical applications. The integration of advanced mechatronic systems is essential to create value-added products that are not only highly functional, but also seamlessly adaptable to dynamic healthcare environments.

The scope of this reprint includes contributions that leverage mechatronic principles across a range of domains—such as smart manufacturing, rapid prototyping, artificial intelligence, and adaptive materials—to foster innovation in medical engineering. Whether through enhancing clinical robotic systems, streamlining automated production lines for medical devices, or developing next-generation diagnostic and therapeutic tools, mechatronics offers transformative potential.

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