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## Vision, Sensing and Analytics: Integrative Approaches

**About:** Recent technology advancements in vision, sensing and analytics have brought to us the new trends and made significant impacts in our societies. Especially the advancement of their tools opens the door to highly impactful innovations and applications as a result of effective and efficient use of them. Examples may include the automated vehicles that are realized as a result of integrating multiple technologies in vision, sensing, communication, and diagnosis (analytics); as well as, the population health, the major trend and efforts of healthcare quality assurance in the United States, as a result of mainly integrating analytics and information management technologies together with various medical sensing. This book collects such innovations and applications that are potentially impactful in our societies in the near future. Future challenges, prospects, scopes are core attention of this book as well.

This book also contains overviews, guidelines and challenges of such integrative approaches for scholars and practitioners. Contributions are recruited from the leaders and experts of those fields, who participated in relevant international conferences and/or are active in the academic and professional societies.

**Keywords:** Health informatics, Medical Informatics, Biomedical signal, Signal processing, AI, IoT, HCI, Deep Learning, Big Data, image processing, information management.

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