



Developmental Neuroimaging: Mapping the Development of Brain and Behavior

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Written by renowned neuroscientists and experts in the field of neuroimaging, this is the first book ever published on the topic of developmental neuroimaging. It relates the application of recent and exciting discoveries in structural and functional neuroimaging to the field of human brain development. Recent advancements in neuroimaging, such as functional MRI and large channel EEG, now provide noninvasive methods to visualize the development of perceptual and cognitive functioning. The text demonstrates new techniques in functional neuroimaging, including integration and registration of different modalities of imaging as they relate to human brain development.

Each chapter is constructed around central themes in research and clinical practice. Discussions include appropriate imaging technology for measuring linear and nonlinear rates of development, critical periods, structural or functional developmental disabilities, and the development of neural connections. The text also analyzes whether data from adult neuroimaging studies are appropriate for developmental studies and examines interpretive models to explain developmental phenomena and effects. Coverage includes MRI, EEG, PET, and ERP.

Key Features: Provides new information on

- * Human brain development
- * Neurological bases of dyslexia
- * Methods for neuroimaging of brain development
- * Cortical growth spurts
- * Development of schizophrenia



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