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Data Driven Treatment Response Assessment *and* Preterm, Perinatal, and Paediatric Image Analysis

First International Workshop, DATRA 2018
and Third International Workshop, PIPPI 2018
Held in Conjunction with MICCAI 2018
Granada, Spain, September 16, 2018
Proceedings

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Preface DATRA 2018

Clinical follow-up evaluation is critically important to patient care following interventions including surgical procedures, radiation therapy, or pharmaceutical treatment. As treatments become more targeted and personalized, the need arises for accurate prediction and assessment of a patient's response. Such analysis generally relies on time-related data analysis, wherein baseline and follow-up measurements are evaluated. In medical imaging, computer vision and pattern recognition approaches are being developed and adopted for such evaluations. The DATRA 2018 workshop aims at exploring pattern recognition technologies for tackling clinical issues related to the follow-up analysis of medical data with a focus on malignancy progression analysis, computer-aided models of treatment response, and anomaly detection in recovery feedback. The primary target of this workshop is to interface different backgrounds in order to outline new problems regarding the evolution of a patient's treatment response, healing, or rehabilitation. This symposium of competences can be seen as an interesting incentive to focusing on the right problems and to establishing a contact point between the medical and technical environment.

September 2018

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Preface PIPPI 2018

The application of sophisticated analysis tools to fetal, infant, and paediatric imaging data is of interest to a substantial proportion of the MICCAI community. The main objective of this workshop is to bring together researchers in the MICCAI community to discuss the challenges of image analysis techniques as applied to the fetal and infant setting. Advanced medical image analysis allows the detailed scientific study of conditions such as prematurity and the study of both normal singleton and twin development in addition to less common conditions unique to childhood. This workshop brings together methods and experience from researchers and authors working on these younger cohorts and provides a forum for the open discussion of advanced image analysis approaches focused on the analysis of growth and development in the fetal, infant, and paediatric period.

September 2018

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