



پژوهشگاه دانش‌های بنیادی
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سخنرانی علمی

How machine-learning based techniques help us to explore about hidden processes in the brain

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دکترای مدلسازی شناختی از دانشگاه شهید بهشتی

Abstract

To answer this big question, I start with one of my projects: “Automatic classification of 6-month-old infants at familial risk for language-based learning disorder using a support vector machine”. This study assesses the ability of a novel, “automatic classification” approach to facilitate identification of infants at the highest familial risk for language-learning disorders (LLD) and to provide converging assessments to enable earlier detection of developmental disorders that disrupt language acquisition. Network connectivity measures were extracted from brain signals as secondary features and a special framework was designed to select and evaluate the best features distinguishing between in risk group from typically developing infants.

In this talk, our focus is on how designed machine learning frameworks can reveal hidden processes in complicated systems like the human brain.

Biography

Zahra Rezvani is currently graduated with PhD of cognitive modelling from Shahid Beheshti university. She received her MSc and BSc from Shahid Beheshti university as well. Her research interests include customized machine learning techniques, Time series analysis, pattern recognition and image understanding.

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