Abstract

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Some students, that are performing research while attending university or college, must deal with a lot of data that combines information from multiple modalities, e.g. text, audio, or images. Even when working only using data from one modality, e.g. text, they have to process set of original data to obtain a parameter, then several parameters will be obtained from various sets of data. From this parameters, typically using modeling, a new parameter can be extracted. We can label the new parameter as second-level parameter, while paremeters obtained from original data as first-level parameters. It sounds easy to obtain the first-level parameters and also the second-level ones, but how about the third-level, fourth-level, etc? Or when the supervisor as the student to repeat the observation for additional original data? Then the whole processes must be repeated again.