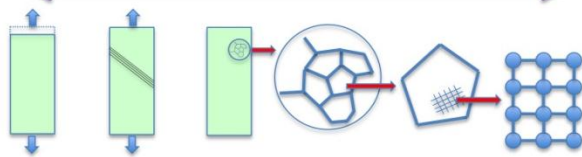


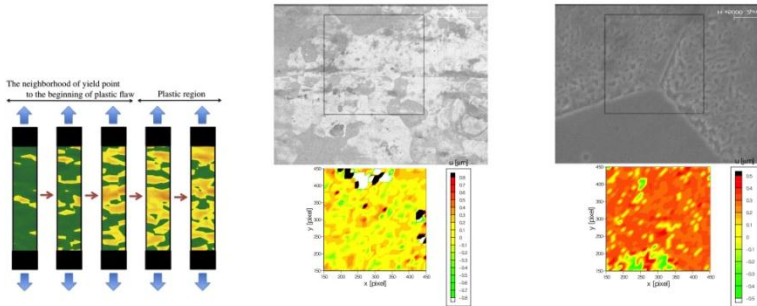
# Multi-scale Deformation Behavior for Smart Materials & Structures

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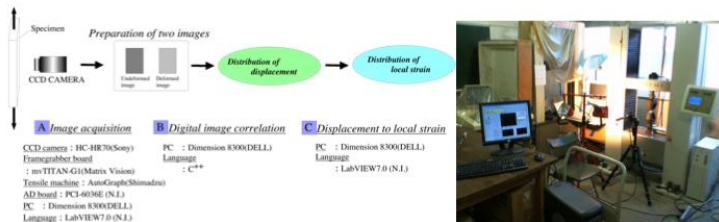
Macro-scale      Meso-scale      Micro-scale



## Visualization of strain distribution



## Measurement System of Strain Distribution



## Contents :

The evaluation of deformation behavior arising in solid materials is very important in engineering fields. Then, their deformation behaviors appear at multi-scale, and show inhomogeneous nature at several scales, in general .

In our lab, a lot of novel measurement methods are now constructed on the basis of Digital Image Correlation (DIC) which is the new measurement method for the distribution of deformation arising in materials. Furthermore, we are evaluating the mechanism of deformation behavior by using their techniques, especially for smart materials & structures.

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