3D Visualization of Uncertainty in Minoan Archaeological Reconstructions

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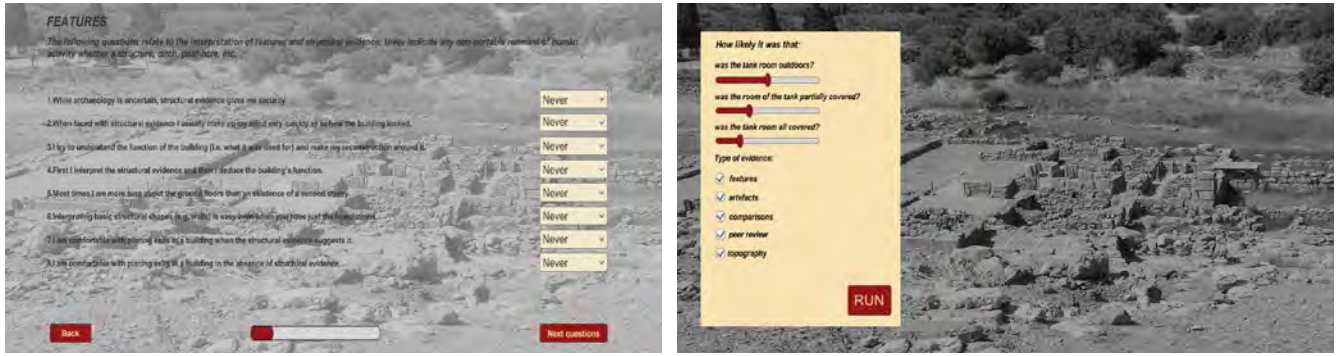
TEAM SURREAL, http://graphics.tuc.gr

Implementation

- **Archaeologists' input**

  1. **Answers to a questionnaire.**
  2. **Insertion of their belief.**
  3. **Selection the type of evidence.**



Archaeologists' Input

- **System's Output**

  1. **3D preview of PDF (Probability Density Function).**
  2. **Creation of random values from Dirichlet Distribution.**
  3. **Different colour visualizations of the uncertainty, depending on the point of the Simplex.**

System's Output

Visualization

- **Multiple uncertainty levels.**
- **Multiple reconstructions of certain points of Zakros Palace.**
- **Colour visualization was used.**

Visualization of Uncertainty for three possible reconstructions of the Basin Hall, Palace of Zakros, Crete

3D Reconstruction

- **Information about every point of the Palace**
- **Archaeologists' interaction with the environment.**

3D Reconstruction of the Palace

Thank you!