

High Dimensional Heterogeneous Data based Animation Techniques for Southeast Asian Intangible Cultural Heritage Digital Content



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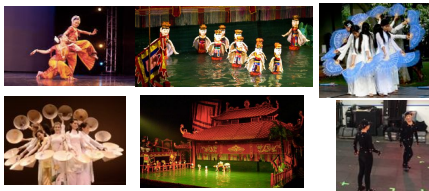
CRIL UMR CNRS 8188 – Université d'Artois

Journée de lancement de la SFR « Numérique et Patrimoine »

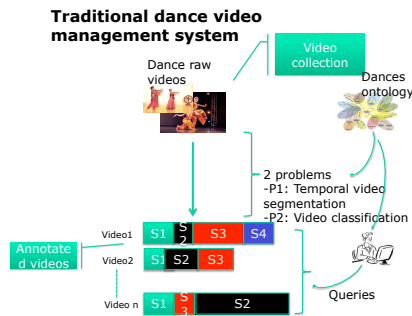
Summary

- Marie Skłodowska-Curie Actions RISE (Research and Innovation Staff Exchange) H2020--MSCA--RISE-2015
- Period: 2016-2019
- Objective: Develop novel techniques and tools to reduce the production costs and improve the level of automation without sacrificing the control from the artists, in order to preserve the performing arts related ICHs of Southeast Asia.

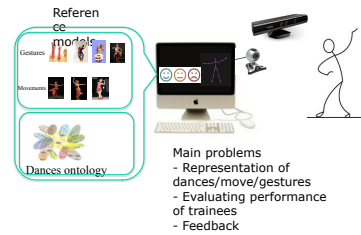
Data



Video management system

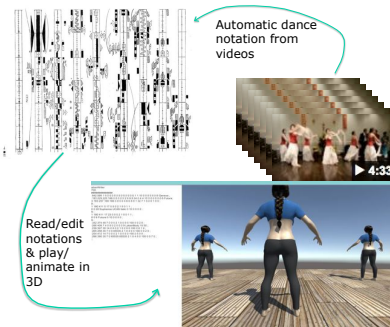


Dance training systems

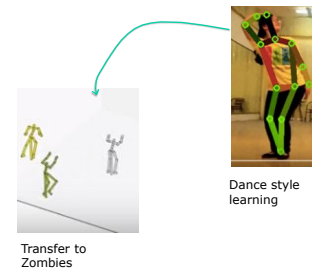


Ob-Orn Muangmoon, Pradom Sureephong and Karim Tabia, **Dance Training Tool using Kinect-based Skeleton Tracking and Evaluating Dancer's Performance**, IEA/AIE 17.

Dance notation & animation



Style learning



<https://hmiuet.wordpress.com/aniage/>

Consortium



CRIL@artois at a glance

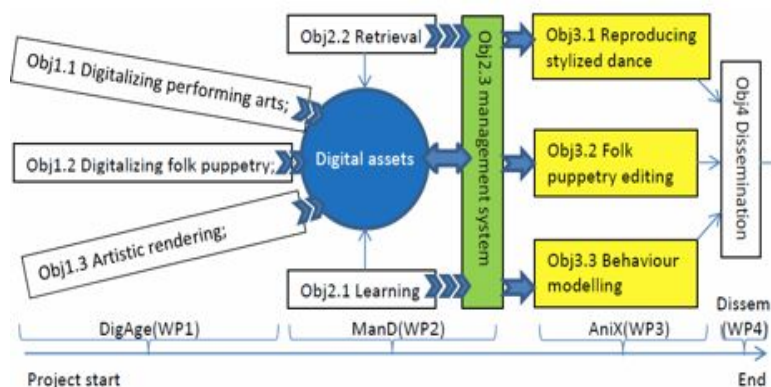
UMR CNRS 8188 - 59 members
Topics: Artificial Intelligence
- Knowledge Representation and Reasoning (RCR)

- Logics for Artificial Intelligence (Description Logics, Epistemic Logics, etc.)
- Uncertainty Models (Graphical Models, Uncertainty Networks, etc.)
- Belief Change (Revision, Update, Merging, etc.)
- Negotiation – Argumentation
- Machine Learning

- Constraints and Algorithms for Inference (AIC)

- Constraint Programming (CSP, MaxCSP, WCSP ...)
 - SAT
 - MUS (Minimal Unsatisfiable Sets)
 - Knowledge Compilation
 - Data Mining
- www.cril.univ-artois.fr

Work-packages



Bibliography

- Annotating Movement Phrases in Vietnamese Folk Dance Videos. IEA/AIE (2) 2017: 3-11
- Dance Training Tool Using Kinect-Based Skeleton Tracking and Evaluating Dancer's Performance. IEA/AIE (2) 2017: 27-32
- Annotating Movement Phrases in Vietnamese Folk Dance Videos. IEA/AIE (2) 2017: 3-11
- Automatic annotation of traditional dance data using motion features, ICDAMT 2017

More information

- AniAge@CRIL
<http://www.cril.univ-artois.fr/aniage/>
- AniAge@BU
<http://www.euh2020aniage.org/>