

International Workshop on Diff-CV: Differential Geometry in Computer Vision for Analysis of Shapes, Images and Trajectories

In conjunction with the 26th British Machine Vision Conference (BMVC 2015)

Swansea, UK, September 10, 2015

<http://www-rech.telecom-lille.fr/diff-cv2015/>

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Riemannian geometric computing has received a lot of recent interest in the computer vision community. In particular, Riemannian geometric principles can be applied to a variety of difficult computer vision problems including face recognition, activity recognition, object detection, biomedical image analysis, and structure-from-motion to name a few. Besides their nice mathematical formulation, Riemannian computations based on the geometry of underlying manifolds are often faster and more stable than their classical counterparts. Over the past few years, the popularity of Riemannian algorithms has increased several-fold. Some of the mathematical entities that benefit from a geometric analysis include rotation matrices, medial representations, subspace comparisons, symmetric positive-definite matrices, function spaces, and many more. The topics of interest include, but are not limited to:

- Shape representation
- Riemannian metrics in computer vision
- Curve, surface, trajectory and image registration
- Statistical analysis of shapes, trajectories and images
- Feature-based representations
- Shape detection, tracking and retrieval
- Symmetry analysis
- Applications: medical imaging, graphics, biometrics, activity recognition, bioinformatics, etc.

Original papers related to the topics of interest listed above can be submitted through the workshop webpage. Papers covering theory and/or application areas of computer vision are invited for submission. All papers will be reviewed under the double blind review process. Authors should submit a workshop paper with a **minimum of 4 pages and maximum of 9 pages (excluding references)**. It should follow the same formatting style as a BMVC conference paper.

IMPORTANT DATES

- July 4th, 2015 Deadline for workshop paper submission
- July 20th, 2015 Paper reviews due
- July 24th, 2015 Decisions released to authors
- July 31st, 2015 Deadline for submitting camera-ready papers

FOR MORE INFORMATION: <http://www-rech.telecom-lille.fr/diff-cv2015/>