

PARASHAR Shaifali

Postdoctoral Researcher

CVLAB-EPFL, Switzerland

+33-(0)782095677

[Website](#)

32 years (DoB: 30/08/1988), Indian



Work Experience

Postdoctoral Researcher: CVLAB-EPFL, Switzerland

March'19 –

Postdoctoral Researcher: Université Clermont Auvergne, France

Oct'17 – Dec'18

Network Engineer: Ericsson India Pvt. Ltd., India

May'10 – July'12

Education

PhD in Computer Vision: Université Clermont Auvergne, France

Sep'14 – Aug'17

Recipient of 'Prix de Thèse UCAF 2018'

MSc in Computer Vision: Université de Bourgogne, France

Sep'12 – June'14

Recipient of 'Charpak Scholarship of Excellence 2012'

Bachelor in Information And Communication Technology: DA-IICT, India

Aug'06 – May'10

Supervision Responsibilities

Jose Lamarca: PhD student at University of Zaragoza, Spain

Jan Bednarik: PhD student at CVLAB-EPFL

Yuxuan Long: MSc student at CVLAB-EPFL

Paul Gafton: MSc student at CVLAB-EPFL

Publications: Peer-reviewed Journals

DefSLAM: Tracking and Mapping of Deforming Scenes from Monocular Sequences

J. Lamarca, S. Parashar, A. Bartoli and J.M.M. Montiel

TRO: *IEEE Transactions on Robotics*, Accepted in July 2020

GarNet++: Improving Fast and Accurate Static 3D Cloth Draping by Curvature Loss

E. Gundogdu, V. Constantin, S. Parashar, A. Seifoddini, M. Dang, M. Salzmann, and P. Fua

PAMI: *IEEE Transactions on Pattern Analysis and Machine Intelligence*, July 2020

Local Deformable 3D Reconstruction with Cartan's Connections

S. Parashar, D. Pizarro and A. Bartoli

PAMI: *IEEE Transactions on Pattern Analysis and Machine Intelligence*, October 2018

Isometric Non-Rigid Shape-from-Motion Solved using Riemannian Geometry in Linear Time

S. Parashar, D. Pizarro and A. Bartoli

PAMI: *IEEE Transactions on Pattern Analysis and Machine Intelligence*, October 2017

Publications: Peer-reviewed Conferences

Local Non-Rigid Structure-From-Motion From Diffeomorphic Mappings

S. Parashar, M. Salzmann and P. Fua

CVPR: *IEEE Conference on Computer Vision and Pattern Recognition*, 2020

Shape Reconstruction by Learning Differentiable Surface Representations

J. Bednarik, S. Parashar, E. Gundogdu, M. Salzmann and P. Fua

CVPR: *IEEE Conference on Computer Vision and Pattern Recognition*, 2020

3DVFX: 3D Video Editing using Non-Rigid Structure-from-Motion **(Oral)**

S. Parashar and A. Bartoli

Eurographics (Short Papers), 2019

Self-Calibrating Isometric Non-Rigid Structure-from-Motion

S. Parashar, A. Bartoli and D. Pizarro

ECCV: European Conference on Computer Vision, 2018

Isometric Non-Rigid Shape-from-Motion in Linear Time **(Oral)**

S. Parashar, D. Pizarro and A. Bartoli

CVPR: IEEE Conference on Computer Vision and Pattern Recognition, 2016

As-Rigid-As-Possible Volumetric Shape-from-Template

S. Parashar, D. Pizarro, A. Bartoli and T. Collins

ICCV: IEEE International Conference on Computer Vision, 2015

Reviewing Responsibilities

Computer vision conferences (CVPR, ICCV, ECCV, ACCV, 3DV, WACV) and journals (PAMI, IJCV)

Robotics conference IROS and journal I-RAL