

Deutscher Akademischer Austauschdienst German Academic Exchange Service Section ST34 – Asia, Pacific

## Approval Form by German Host (Head of the Department) WISE – Working Internships in Science and Engineering

yould like to involve an Indian student in my research work for the following time period:

nternship period:	01.06.2022 - 05.08.2022
German Supervisor:	
Name:	Prof. DrIng. Jörn Ostermann
Jniversity/ Research Institution	Leibniz Universität Hannover
Address:	Appelstr. 9A, 30167 Hannover
Геlephone & Fax	Tel: +49 511 762-5316 Fax: +49 511 762-5333
Email:	office@tnt.uni-hannover.de
Student Applicant: Name	Anand Kumar
Name Address:	1/34, Adal Nagar, Villupuram, TN, India - 605401
Telephone	+91 89250 81166
Email:	anandknitt@gmail.com
ziliali.	<u>unununue ginameen</u>
Subject/Specialization:	Computer Science / Machine Learning
Title of the research project:	Generative Video Coding using Neural Networks
Brief description of the research possible tasks to be assigned to the research State-of-the-art deep learning-based vide and an additional hyper encoder that estimated using They are typically trained using a	o codecs are based on autoencoders with quantization in the latent space mates and transmits the symbol distribution for more efficient entropy a rate-distortion cost function. Recently, perceptual cost functions
State-of-the-art deep learning-based vide and an additional hyper encoder that estin coding. They are typically trained using a gained a lot of interest, since they better metrics such as PSNR. Unfortunately, lead decompressed images and videos. For de (GANs) have shown to suppress these compressed with a perceptual loss function extended codec is compared to the baseli	ch assistant):  o codecs are based on autoencoders with quantization in the latent space mates and transmits the symbol distribution for more efficient entropy a rate-distortion cost function. Recently, perceptual cost functions match the human quality perception compared to traditional pixel-wise arned perceptual cost functions introduce unwanted artefact to ep learning-based image compression, generative adversarial networks.
State-of-the-art deep learning-based vide and an additional hyper encoder that estin coding. They are typically trained using a gained a lot of interest, since they better metrics such as PSNR. Unfortunately, lead decompressed images and videos. For de (GANs) have shown to suppress these compressed in tasked to re-implementations by the continued with a percentual loss function.	co codecs are based on autoencoders with quantization in the latent space mates and transmits the symbol distribution for more efficient entropy a rate-distortion cost function. Recently, perceptual cost functions match the human quality perception compared to traditional pixel-wise arned perceptual cost functions introduce unwanted artefact to ep learning-based image compression, generative adversarial networks impression artefacts.  Then the action of the extended with a GAN and in e.g. MS-SSIM or LPIPS. For the evaluation, the performance of the
State-of-the-art deep learning-based vide and an additional hyper encoder that estin coding. They are typically trained using a gained a lot of interest, since they better metrics such as PSNR. Unfortunately, lead decompressed images and videos. For de (GANs) have shown to suppress these compressed with a perceptual loss function extended codec is compared to the baseli	co codecs are based on autoencoders with quantization in the latent space mates and transmits the symbol distribution for more efficient entropy a rate-distortion cost function. Recently, perceptual cost functions match the human quality perception compared to traditional pixel-wise arned perceptual cost functions introduce unwanted artefact to ep learning-based image compression, generative adversarial networks impression artefacts.  Then the action of the extended with a GAN and in e.g. MS-SSIM or LPIPS. For the evaluation, the performance of the

Date, stamp and signature of the German Host

(Head of the department)