Brief Biodata

Name: Dr. Nitin Kumar	

Designation:	Scientist and Assistant Professor (AcSIR)	
DP No. and Name:	3.01 and Atmospheric Sciences & Metrology	
DU No. and Name:	3 and Environmental Sciences & Biomedical Metrology	
Email:	nitinkumar@nplindia.org	
Date of Joining CSIR-NPL:	09 November 2020	
Phone (*office*)	+91-11-45609363	

Research Area/ Interest

Upper Atmosphere (Ionosphere), Underwater Imaging and Computer Vision

Educational Qualifications
(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
Ph.D.	Underwater Video Processing	AcSIR, CSIR-CSIO, Chandigarh	2019
M.Tech	Computer Science & Engineering	NIT, Jalandhar	2012
B.Tech	Computer Science & Engineering	Kurukshetra University	2010

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
Scientist	CSIR-NPL	November 2020	Till date	Ionosphere and Underwater Imaging
Assistant Professor	JUIT, Waknaghat	November 2017	December 2019	Computer Graphics, Image Processing and Operating Systems
Lecturer	NIT Hamirpur	August 2017	November 2017	Artificial Intelligence and Information Security
Senior Project Fellow	CSIR-CSIO, Chandigarh	August 2012	March 2017	R&D in Underwater Robotics project
Teaching assistantship	NIT Jalandhar	July 2010	January 2012	Taught operating system, data structures, object oriented programming, computer graphics

No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
04	-	-	-	04

Selected Publications

1. Nitin Kumar, C. Ghanshyam, and Ajay K. Sharma. "Effect of multi-path fading model on T-ANT clustering protocol for WSN." Wireless Networks 21.4 (2015): 1155-1162.

2. Nitin Kumar, H K Sardana and S N Shome, "Saliency based shape extraction of objects in unconstrained underwater environment," Multimedia Tools and Applications, vol. 78, pp. 15121-15139, 2019

3. Nitin Kumar, H K Sardana, S N Shome and Neerja Mittal, ""Saliency Subtraction Inspired Automated Event Detection in Underwater Environments," Cognitive Computation, vol. 12, pp. 115-127, 2020.

4. Nitin Kumar, H K Sardana and S N Shome, "Shape-based Classification of Objects in Unconstrained Underwater Environments", Multimedia Tools and Applications (2020): 1-17.

Patents

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Current Activities
(Not more than 100 words)

- Presently involved in the study of short & long term variability of ionospheric parameters
- Modelling of Reference Ionosphere for low-mid latitude Delhi and its surroundings

Honour(s)/Award(s)/ Fellowship(s)

1. Gate Fellowship (2010-2012)
2. CSIR - Senior Project Fellow (2012-2017)

Contributions to AcSIR

Working as Assistant Professor in AcSIR

Membership of Professional Societies/ Institutions

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Any other Information
(Not more than 100 words)

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