Dr. ANIL KUMAR SONI

Assistant Professor
Electronics and Communication Engineering, SoS (E&T).

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Educational Qualification

Ph. D. (NDT Instrumentation and Image Processing), 2016
Indira Gandhi Centre for Atomic Research, Kalpakkam, (HBNI-BARC, Mumbai)

M. Tech. (Digital Communication Engineering), 2009
R. V. College of Engineering, Bangalore, (VTU, Belgaum)

B. E. (Electronics & Telecommunication Engineering), 2006
Chouksey Engineering College, Bilaspur,(Guru Ghasidas Vishwavidyalaya, Bilaspur)

Work Experience

Assistant Professor, Guru Ghasidas Vishwavidyalaya Bilaspur (February 2020-Present)

Sr. Assistant Professor, Madanapalle Institute of Technology and Science, Madanapalle (April 2018 – February 2020)

Assistant Professor , Lakhmi Chand Institute of Technology, Bilaspur (January 2017–April 2018)

Assistant Professor , Central College of Engineering and Management, Raipur (February 2016–January 2017)

DGFS Ph.D Fellow, Indira Gandhi Center for Atomic Research, Kalpakkam (February 2011–January 2016)

Lecturer, Lakhami Chand Institute of Technology, Bilaspur (February 2010 – February 2011)

Lecturer, Dr. C. V. Raman University, Bilaspur (July 2009 – January 2010)

Technical Skills

Software languages:

- Matlab
- LabVIEW
- COMSOL
- CST STUDIO SUIT
- CIVA

Area of interest:

- Sensor Development
- Instrumentation Development
- NDT Image Processing
- Signal Processing
- Absorber design

Course Taught:

- Automatic Control System
- Signal and System
- Network Analysis
- Instrumentation and measurement
- Communication System

Awards

- Top Performing Mentor by NPTEL, Swayam, MHRD, Govt. of India, 2019.
- Best Paper Award by OPJU, Raigarh, 2019.
- DGFS-Ph.D. Fellowship by DAE, Govt. of India, 2011.
- GATE Scholarship by MHRD, Govt. of India, 2007

List of publications

Journal Publications (SCI/Scopus Indexed):

[1].**Anil Kumar Soni,** Ranjeet Kumar, and Shrawan Kumar Patel, 'Development of image fusion methodology for image enhancement of sub-surface defect in eddy current non-destructive testing', Defects and Diffusion Forum, 2019. (In Press)(Scopus Indexed)

[2].Ranjeet Kumar, **Anil Kumar Soni**, and B. Ramachandra Reddy, 'Analysis of Histogram-based Image Enhancement Techniques for Steel Surface and Defects Images', Defects and Diffusion Forum, 2019. (In Press) (Scopus Indexed)

[3].**Anil Kumar. Soni** and B. Purna Chandra Rao, 'Lock-in Amplifier Based Eddy Current Instrument for Detection of Sub-surface Defect in Stainless Steel Plates', Sensing and Imaging, Vol. 19, No.32, August 2018. (Scopus Indexed)

[4].**Anil Kumar Soni**, B. Sasi, S. Thirunavukkarasu and B. Purna Chandra Rao 'Development of eddy current probe for detection of deep sub-surface defects', IETE Technical Review, Vol. 33, No. 4, pp. 386-395, November 2015. (SCI Indexed Impact factor: 1.618)

[5].**Anil Kumar. Soni**, S. Thirunavukkarasu, B. Sasi, B. Purna Chandra Rao, T. Jayakumar, 'Development of a high sensitive eddy current instrument for detection of sub-surface defects in stainless steel plates', Insight-Non-Destructive Testing & Condition Monitoring, Vol. 57, No. 9, pp. 508-512, September 2015. (SCI Indexed Impact factor: 0.49)

Journal Publications (UGC Listed):

[6].S. Thirunavukkarasu, B.P.C. Rao, **Anil Kumar Soni**, S. Shuaib Ahmed, T. Jayakumar, 'Comparative performance of image fusion methodologies in eddy current testing', Research Journal of Applied Sciences, Engineering and Technology, Vol. 4, No 24, pp. 5548-5551, 2012.

List of Conference Presented

[1].**Anil Kumar Soni**, S Shuaib Ahmed, S. Thirunavukkarasu, B P C Rao and T Jayakumar, 2013, 'Multi-Sensor Image Fusion for Enhanced Detection of Sub-Surface Defects by Eddy Current Testing', 14th Asia Pacific conference on Non-destructive Testing, Mumbai.

[2].**Anil Kumar Soni**, B P C Rao, B. Sasi, Saji Jacob George, T Jayakumar, 2013, 'Development of a Low Frequency Eddy Current Instrument for Non-destructive Evaluation', National Symposium on Instrumentation (NSI-38), Hubli.

[3].**Anil Kumar Soni,** C.S. Angani, K. Sambasiva Rao, Jaskaran Singh Grover, S. Thirunavukkarasu, B.P.C. Rao, T. Jayakumar, 2012, 'Development of Pulsed Eddy Current System and Model Based Optimization', National Seminar on NDE-2012, New Delhi.

List of FDP and workshop attended

[1].NPTEL-AICTE Faculty development programme on 'Principles of Human Resource Management' April 2019.

[2].Two days National Level Workshop on Outcome base learning in NBA/NAAC Evaluation conducted by Madanapalle Institute of Technology and Science, Madanapalle, India, 30 November- 1 December, 2018.

[3]. Three days workshop on Artificial Intelligence and Deep Learning conducted by leadingindia.ai, Bennett University, Greater Noida, India, 21-23, June 2018.

[4].Eddy current Testing Level-II certification course conducted by Indian Society of Nondestructive Testing, August 2015.

[5].Five days course on Spatial Statistical tools in data processing and analysis conducted by Indian Statistical Institute Bangalore, November 2012.

[6]. Two Days Faculty Training Programme conducted by Chhattisgarh Swami Vivekananda Technical University, Bhilai, August 2010.

Academics Activity

- **NBA Coordinator** for Department of ECE in MITS Madanapalle.
- **NAAC Coordinator (criteria-1)** for Department of ECE in MITS Madanapalle.
- **Program Co-coordinator** for AICTE sponsored two-weeks FDP on embedded with wireless for IoT.
- **Newsletter Coordinator** for Department of ECE in MITS Madanapalle.

Academic Identity

- **Web of Science ResearcherID:** J-9379-2018
- **Orcid Id:** 0000-0003-1612-6161
- **Scopus Id:** 55497653400

Journal Reviewer

- **Measurement**, Elsevier.
- **Journal of Testing and Evaluation**, ASTM International.
- **Insight - Non-Destructive Testing & Condition Monitoring**, The British Institute of Non-Destructive Testing.
- **Sensing and Imaging**, Springer.

(**Dr. Anil Kumar Soni**)