

## **Prof. N.K. Jain**

### (A) Book (1)

1. Kapil Gupta, **NK Jain** and R F Laubscher (2015), “**Hybrid Machining Processes: Perspectives on Machining and Finishing**” Springer International Publishing AG, Switzerland (ISBN: 978-3-319-25922-2).
- 2.

### (B) Publications in Refereed International Journal (3)

1. Kapil Gupta, R F Laubscher, J P Davim, **N K Jain** (2015), “Recent Developments in Sustainable Manufacturing of Gears: a Review” **Journal of Cleaner Production**(DOI: [10.1016/j.jclepro.2015.09.133](https://doi.org/10.1016/j.jclepro.2015.09.133)) (**Impact factor: 3.84**)
2. Kapil Gupta, **N K Jain**, R F Laubscher (2015), “Spark-erosion Machining of Miniature Gears: a Critical Review”, **International Journal of Advanced Manufacturing Technology**, 80(9), 1863-1877 Oct 2015 (DOI: 10.1007/s00170-015-7130-2) (**Impact Factor: 1.43**)
3. J H Shaikh, **N K Jain**, V C Venkatesh (2013), "Precision Finishing of Bevel Gears by Electrochemical Honing" **Materials and Manufacturing Processes**, 28(10), 1117-1123 (DOI: 10.1080/10426914.2013.811737). (**Impact factor: 1.63**)

### (C) Publications in Refereed International Conference Proceedings (1)

1. Kapil Gupta, **N K Jain**, R F Laubscher, (2015) “Experimental Investigations on Manufacturing of High Quality Miniature Gears by Wire Electric-Discharge Machining“ Proceedings of **International Conference on Gear Production, Garching (Germany)**, Oct. 5-7, 2015, 1471-1481, **VDI Verlag GmbH, Dusseldorf 2015 (ISBN: 978-3-18-092255-3)**
- 2.

## **Dr. Santhakumar**

### Journals

1. M.Santhakumar and Jinwhan Kim (2015) Coordinated motion control in task space of an autonomous underwater vehicle - manipulator system, *Ocean Engineering* 104, 155-167, (IF: 1.34)
2. M.Santhakumar and Jinwhan Kim, (2014) Robust adaptive tracking control of autonomous underwater vehicle-manipulator systems, *ASME Journal of Dynamic Systems, Measurement and Control*, 136(5), 054502, 1-10. (IF: 1.039)
3. Yonghyun Kim, M.Santhakumar and Jinwhan Kim, (2014) Task Space - based Control of an Underwater Vehicle-Manipulator System for Position Keeping in Ocean Currents. *Advanced Robotics*, 28(16), 1109-1119. (IF: 0.572)

4. M.Santhakumar and Jinwhan Kim, (2012) Indirect adaptive control of an autonomous underwater vehicle-manipulator system for underwater manipulation tasks, Ocean Engineering 54, 233-243. (IF:1.34)

#### Conferences

1. M.Santhakumar and Jinwhan Kim, Robust Nonlinear Proportional Integral Derivative Control for Position Tracking of an Underwater Manipulator, IEEE/ASME International Conference of Advances in Mechatronics (AIM 2015), Busan, ROK, July 2015.
2. M.Santhakumar and Jinwhan Kim, A Robust Task Space Position Tracking Control of an Underwater Vehicle Manipulator System, Advances in Robotics, Goa, India, July 2015.
3. M. Santhakumar and Jinwhan Kim, Indirect Adaptive Control for Autonomous Underwater Vehicle-Manipulator Systems, the 22nd International Offshore (Ocean) and Polar Engineering (ISOPE 2012) Conference Rhodes, Greece, June 17 to 22, 2012.
4. M.Santhakumar, Yonghyun Kim and Jinwhan Kim, Power efficient trajectory tracking control of underactuated autonomous underwater vehicle-manipulator systems, IEEE / MTS OCEANS 2012, Yeosu, ROK, May 2012 .

#### Dr. I. A. Palani

1. T Dixit, A Bilgaiyan, **IA Palani**, D Nakamura, T Okada, V Singh, [Influence of Potassium Permanganate in the Anisotropic Growth and Enhanced UV Emission of ZnO Nanostructures using Hydrothermal Process for Optoelectronic Applications](#), Journal of Sol-Gel Science and Technology, 2015.
2. G.Amutha, **I.A.Palani**, N.J.Vasa, M.Singaperumal, T.Okada, " Investigations on nano- and pico-second laser based annealing combined texturing of amorphous silicon thin films for photovoltaic applications "Journal of Solid Mechanics and Materials Engineering Vol 7, 2013, 206-218.
3. **I.A.Palani**, D. Nakamura, K. Okazaki, M. Highasiata, T. Okada, "Structural and optical properties of SbAl co-doped ZnO nanowires synthesized using Nanoparticle Assisted Pulsed Laser Deposition (NAPLD) with Sb as catalyst", Journal of Alloys and Compounds, Volume 527, 25 June 2012, Pg,112-116.

Dr. Bhupesh Lad

List of joint publications of Industrial Engineering Research Group (IERG), IIT Indore and Industrial and Logistics Systems, French Institute for Advanced Mechanics, Clermont-Ferrand, France.

1. Ringard J., Purohit B. and Kumar Lad Bhupesh, Integrated Operations Planning for a Multicomponent Machine Subjected to Stochastic Environment. Proceedings of the 5th International Conference on Simulation and Modelling Methodologies, Technologies and Applications (SIMULTECH-2015), July 21-23, 2015. Colmar France, pp. 55-62, DOI: 10.5220/0005496500550062
2. Purohit B., Ringard J and Kumar Lad Bhupesh, An Integrated Approach for Supply, Production and Maintenance Planning, International Journal of Industrial Engineering: Theory, Applications and Practice (IJIETAP). Communication date: 8th July'15, Status: under Review.