

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

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| 1. Name: | Dr. K. Sankaranarayanan |
| 2. Designation: | Professor |
| 3. Office Address: | Department of Mechanical Engg. |
| 4. Telephone (Direct) (Optional): | |
| Telephone : | Extn (Optional): 3403 |
| Mobile (Optional): | 9486001114 |
| 5. Email (Primary): ksnsamy@nitt.edu | Email (Secondary) :
ksnsamy@yahoo.com |
| 6. Field(s) of Specialization: | Mechanical Engg. / Design & Industrial
Safety |

7. Employment Profile

Sl. No.	Name of the Employer/ Institution	Period		Designation
		From	To	
1.	REC / NIT Tiruchirappalli	May2000	Till Date	Professor
2.	REC Tiruchirappalli	May 1992	May2000	Assistant Professor
3.	REC Tiruchirappalli	Aug 1989	May 1992	Lecturer
4.	Bharath Electronics Ltd. Bangalore	July 1983	July 1985	Deputy Engineer

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	I.I.T. Madras	1989	Highly Commendable	Gear Manufacturing
M. Tech.	I.I.T. Madras	1983	8.7 CGPA	Production Engineering
B.E.(Hons)	Madras University	1981	Honours	Mechanical Engineering
P U C	Madurai University	1976	78.8%	Maths, Physics, Chemistry

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

9. Academic/Administrative Responsibilities within the University

- Head of the Department of Mechanical Engineering at REC / NIT Tiruchirappalli from 2000 to 2004 & 2008 to 2010
- Member Board of Governors NITT 2013-2015
- Dean Planning & development at N I T Tiruchirappalli from Sep 2010 to June 2011
- Dean Students' Welfare at N I T Tiruchirappalli from March 2011 to Sep 2013
- Senate member of N I T Tiruchirappalli since 2004
- President of faculty Association of NITT for two years
- Founder President of Joint Council for faculty of NITs
- Special Invitee for PRSG committee for the project Development of Artificial Intelligence based Technology for Laser Welding (WRI).
- Coordinator of M. Tech. in Industrial Safety Engineering since 2000
- Organized Safety Auditing of small scale Industries in and around Tiruchirappalli through the PG students of Industrial Safety Engineering
- Faculty Advisor for SAE INDIA Collegiate Club at N I T Trichy
- Initiated research based consultancy at NITT by taking up projects from BHEL Trichy and NLC Neyveli
- Helped small entrepreneurs in design and development of huge material handling equipment and repair
- Improved quality of life at N I T Trichy hostels by bringing in better systems for hostel and mess management
- Chief coordinator for Festember, an all India students' cultural event 2010 - 2013

10. Academic/Administrative Responsibilities outside the University

- Board of Studies Member of Mechanical Sciences for Anna University 2000 to 2004 & 2011 to present
- Academic Council Member for KSR College of technology, Tiruchengodu since 2010
- Board of Studies Member of Mechanical Engineering / Industrial Safety Engineering for KSR College of Technology Tiruchengodu, Kongu Engineering College Perundurai, Bannari Amman Institute of Technology Bannari, Karpagam University Coimbatore
- Board of Studies member for Sri Ramachandra Medical University Chennai
- Conducted academic audit for PSG College off Tech. Coimbatore and Karunya University

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Curriculum Development

B.Tech Mechanical Engineering
M.Tech Industrial Safety Engineering
M.Tech Engineering Design

(ii) Courses taught at Postgraduate and Undergraduate levels

UG

Design of Machine Elements
Design of Mechanical Drives
Optimization in Engineering Design
Kinematics of Machinery
Dynamics of Machines
Machine Drawing
Computer Aided Design
Design of Gears and Cams
Industrial Safety Engineering
Production Drawing and Cost estimation
Engineering Mechanics
Basic Mechanical Engineering

PG

Safety in Material Handling
Welding safety in Construction Environment
Safety in Construction Industries
Design of Pressure Vessels
Inspection and Tooling
CNC Technology

(iii) Projects guided at Postgraduate level

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

(iv) Other contribution(s)

MEMBER OF Section Committee of BIS, ETD 44 for Safety of Machinery-
Electrotechnical

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Design and Development of low cost weeding machine and its implements 2001-2003	MHRD	2001-2004		Completed
Process Modeling and Online Monitoring of Laser Beam Welding	DST	2007-2009		Completed
Design of Bipod, Quadrapod and Retort Repairing Stand	ATS CHEM Equipments Pvt. Ltd., Namakkal (Subcontractor of The Kerala Minerals and Metals Limited, Kerala)	2009 1 Month		Completed
Support System for CFBC FBHE Coils and Back Pass Surfaces on CFBC boilers	BHEL, Trichy	September 2009 – May 2011 (2 years)		Completed
Distribution of Load Transfer Pattern and Stress Distribution with Large openings in the furnace walls of CFBC boilers		2010 - 2011 (1 year)		Completed
Study of Operational issues of drag link feeder in existing CFBC boilers and issuing guidelines for improvement		2010 – 2011 (1 year)		Completed
Failure analysis of High pressure feed water heaters of TPS I Expansion		2012 (2 Months)		Completed
Stress analysis of the existing pipe loop including test section, design and suggest improved long lasting pipe joint options for Supercritical Boiler Test Facility		2012 (6 Months)		Completed
Design, Analysis and		2016		Waiting for approval

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

Development of Metallic Liners for Spherical Gas Bottle for Aerospace Application	RESPOND		
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15. Number of PhDs guided

Sl. No.	THESIS TITLE	NAME	YEAR	UNIVERSITY/ INSTITUTION	Status
1.	Extraction of manufacturing features from a wire frame model using CAD data as input	V. Dhanalakshmi	2004	Madurai Kamaraj University	Completed
2.	Fracture criteria in the design of Aerospace Pressure Vessels	T. Christopher	2005	Manonmaniam Sundaranar University	Completed
3.	Fracture criteria in the Aerospace Pressure Vessels	K. Muthurajan	2007	Manonmaniam Sundaranar university	Completed
4.	Investigations on process parameters, Modeling and Weld Characterization for laser joining of thin section stainless steel	K.R.Balasubramanian	2008	NIT, Tiruchirappalli	Completed
5.	Computer Simulation and Experimental investigation on liquid flow through Labyrinths	S.P.Asok	2009	Manonmaniam Sundaranar University	Completed
6.	A study on Tolerance Synthesis and Analysis of Assembled Products	Karthick Jayaram J	2011	NIT, Tiruchirappalli	Completed
7.	Some studies in hand transmitted and whole body vibration on tracked excavator with breaker	M.S. Alphin	2012	NIT, Tiruchirappalli	Completed
8.	Investigations on temperature distribution in laser beam welding using Finite Element simulation and experimental analysis of laser weld for AISI 304 stainless steel sheets	N. Siva Shanmugam	2012	NIT, Tiruchirappalli	Completed
9.	Occupational Health and Ergonomic aspects of CNC Machine operation	K. Muthukumar	2012	NIT, Tiruchirappalli	Completed
10.	CFD analysis of laser keyhole welding process	T. Suthakar	2013	NIT, Tiruchirappalli	Completed
11.	Experimental Investigation on Mechanical and Thermal Properties of Composites	J. Ronald Aseer	2014	NIT, Tiruchirappalli	Completed

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

	Panel made from Municipal Solid Waste-Banana Fiber				
12.	Some Studies on Property Evolution of Commercially Pure Aluminium Processed Through Conventional and New ECAP Dies	S. Surendarnath	2015	NIT, Tiruchirappalli	Completed

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

- Member of Organizing committee (Exhibition Committee) for Workshop on Occupational Health & Safety Management conducted by Institution of Engineers (India) on 20th October 2001 at BHEL, Trichy.
- Conducted a Two week special Programme on Advanced Safety Engineering for DRDO Scientists during 9th-20th December 2003 at NIT, Trichy.
- Conducting Training on Industrial safety to Employees (Scientists, Supervisors and Workers) of IGCAR for 10 to 15 days per year since 2009 at IGCAR. (Three years of Programme Completed).
- Organized Two week Special Lecture session on Composite Materials and nano Composites for faculty and Research Scholars by Prof. R. Prabakaran Visiting Professor from ODU, Virginia on TEQIP Program. 16th- 29th January 2008.
- Organized Two days' Workshop on Composite Materials for Faculty Members of Other Engineering Colleges during week end on 19th& 26th January 2008. Under TEQIP.
- Organizing committee member for International Symposium on Joining of Materials, 2012 (Chairman- Finance Committee) 18th-21st January, 2012.
- Prepared offsite emergency plan for Karur District

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
FDP on Applications of Finite Element Methods in Academic and Industrial Research	National	06.06.2013 to 08.06.2013	coordinator	NIT, Trichy
Faculty Development Programs on ANSYS	National	6-8, June 2014	coordinator	NIT, Trichy
Faculty Development Programs on Engineering Graphics	National	19-22, June 2014	coordinator	NIT, Trichy
International Conference on Advances in Design & Manufacturing (ICAD&M'14)	International	December 5 – 7, 2014	Convener	NIT, Trichy

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

Research Scopes in Micro Engineering	National	28-30, April 2016	coordinator	NIT, Trichy
Research Trends in Mechanical Engineering	National	29.08.2016 – 03.09.2016	coordinator	NIT, Trichy

18. Invited Talks delivered

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Fellow Member	Institution of Engineers (India)	
Life Member	Indian Society For Technical Education (ISTE)	
Member	Society of Automotive Engineers (SAEINDIA)	
Life Member	Indian Welding Society (IWS)	

20. Academic Foreign Visits

- China in 1988
- USA in 2002
- Malaysia in 2004
- Slovakia in 2011
- Singapore 2013

21. Publications

(A) Refereed Research Journals:

Sl. No.	Details
1.	Karpagaraj, A, Siva Shanmugam, Nallathambi, Sankaranarayanan, K (2016) Studies on Mechanical Behavior and Microstructural Analysis of Tailor Welded Blanks of Ti-6Al-4V Titanium Alloy Sheet, Journal of Materials Research – Accepted for Publication
2.	V Dhinakaran, NS Shanmugam, K Sankaranarayanan (2015) Some studies on temperature field during plasma arc welding of thin titanium alloy sheets using parabolic Gaussian heat source model, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, doi: 10.1177/0954406215623574
3.	A Karpagaraj, N Siva shanmugam, K Sankaranarayanan (2015) Some studies on mechanical properties and microstructural characterization of automated TIG welding of thin commercially pure titanium sheets, Materials Science and Engineering: A 640, 180-189.
4.	Kuruva Gopanna, K. Sankaranarayanan, A.K. Ganguli, K. Muthukumar. (2015). Evaluation of Forklifts for Operator Comfort. International Journal of Engineering Innovation & Research,

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

	V6, No.4 pp19-24.
5.	Surendarnath, S., K. Sankaranarayananasamy, B. Ravisankar (2014) "Workability study on 99.04 % pure aluminum processed by ECAP" Materials and manufacturing Processes", 29 (6), 1-6.
6.	Kuruva Gopanna, K. Sankaranarayananasamy, A.K. Ganguli, K. Muthukumar. (2014). Musculoskeletal Discomfort Analysis in Forklift Operations. International Journal of Vehicle Structures & Systems, v4, no1 pp124-127.
7.	Surendarnath, S., K. Sankaranarayananasamy, B. Ravisankar (2014) "Experimental investigation on performance of New equal Channel Angular Pressing Die". IOP Conference Series- Materials Science and Engineering, 63, 1-8.
8.	Surendarnath, S., K. Sankaranarayananasamy, B. Ravisankar (2014) "A Comparative Study of commercially Pure Aluminium Processed by ECAP Using Conventional and New Die" Materials and manufacturing Processes, 29 (10), 1172-1178
9.	Surendarnath, S., K. Sankaranarayananasamy, B. Ravisankar (2014) "Finite Element Simulation of Pure Aluminum Processed by ECAP Using New Die Design". Neural Computing and Applications, 146-147, 1737-1740.
10.	K. Muthukumar, K. Sankaranarayananasamy, A.K. Ganguli,(2014) "Analysis of frequency, intensity and interference of Discomfort in CNC Machine Operations", Human factors and Ergonomics in Manufacturing & Service Industries,24(2), 131-138
11.	J. Ronald Aseer, K. Sankaranarayananasamy, P. Jayabalan (2013) Effect of chemical treatment on mechanical properties of municipal solid waste and banana fiber reinforced polymer composites, Advanced Materials Research vol. 871, 253-258.
12.	J. Ronald Aseer, K. Sankaranarayananasamy, P. Jayabalan (2013) "Morp.hological, Physico-Mechanical and Thermal properties of banana plant fibers (Musa sapientum)", Applied Polymer Composites Vol. 1(3), 125-134.
13.	T. Suthkar, K.R.balasubramanian,K. Sankaranarayananasamy, G. Buvanasekaran "Studies on weld shape formation and Marangoniconvection in Nd:YAG laser welding" Int. J. Mechatronics and Manufacturing Systems, Vol. 5, Nos. 3/4, 2012 pp226-246.
14.	K. Muthukumar, K. Sankaranarayananasamy, A.K. Ganguli, "Discomfort Analysis in CNC Machine Operations", Safety and Health at Work, Vol. 3, 2012, pp. 146-153.
15.	K. Muthukumar, K. Sankaranarayananasamy, A.K. Ganguli, "Occupational Health and ergonomic aspects of CNC machine operation", International Journal of Occupational Safety and Ergonomics – Accepted for Publication.
16.	J. Jaise, N. B. Ajay Kumar, N. Siva Shanmugam, K. Sankaranarayananasamy and T. Ramesh, (2013) "Power system: a reliability assessment using FTA", International Journal of Systems Assurance Engineering and Management, 4(1). 78-85.
17.	J. Ronald Aseer, K. Sankaranarayananasamy, P. Jayabalan, R.Natarajan, Priya K. Dasan (2013) "Morphological, physical and thermal properties of chemically treated banana fiber", Journal of Natural Fibers, vol. 10:4, 365-380.
18.	J. Ronald Aseer, K. Sankaranarayananasamy, P. Jayabalan, R.Natarajan, Priya K. Dasan, (2013) "Morphological and mechanical properties of chemically treated municipal solid waste (MSW)/ banana fiber and their reinforcement in polymer composites", Science and Engineering of Composite Materials, DOI 10.1515/secm-2013-0203.
19.	J. Ronald Aseer, K. Sankaranarayananasamy, P. Jayabalan, R.Natarajan, Priya K. Dasan, (2013) "Mechanical and water absorption properties of municipal solid waste and banana fiber reinforced urea formaldehyde composites", Environmental Progress and Sustainable Energy,

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

	DOI 10.1002/ep.11966.
20.	Georgekutty S Mangalathu, N. Siva Shanmugam, K. Sankaranarayananasamy, T. Ramesh & K. Muthukumar, (2012) "System safety in LPG fired furnace – A Multi Criteria Decision Making Technique", <i>Advances in Production Engineering and Management</i> , 7(2), 123-134.
21.	P.Velmurugan, L.A. Kumaraswamidhas, K. Sankaranarayananasamy, (2012) "Influence of road surfaces on whole-body vibration for suspended cabin tractor semi-trailer drivers", <i>Journal of Low Frequency Noise, Vibration and Active Control – Accepted for Publication</i> .
22.	T. Suthakar, K. Sankaranarayananasamy, K.R. Balasubramanian, G.Buvashekarana, K. Krishnamurthy, "Effect of Peclet Number on the thermo capillary convection and molten pool shape formation during laser welding using CFD", <i>Advanced Materials Research</i> , Vols 383-390 (2012) pp 6231-6235.
23.	K.R. Balasubramanian, T. Suthakar, K. Sankaranarayananasamy, G.Buvashekarana, "Laser welding simulations of stainless steel joints using finite element analysis", <i>Advanced materials research</i> , Vols 383-390 (2012) pp 6225-6230
24.	P.Velmurugan, L.A.Kumaraswamidhas, K. Sankaranarayananasamy (2012), "Measurement of whole-body vibration exposure from tractor semi-trailers", <i>Human Factors and Ergonomics in Manufacturing and service industries</i> , Vol. 22(6), 481-486.
25.	N. Siva Shanmugam, G. Buvashekarana and K. Sankaranarayananasamy, "Some studies on weld bead geometries for laser spot welding process using finite element analysis", <i>Materials & Design</i> , Volume 34, February 2012, Pages 412-426.
26.	P.Velmurugan, L.A. Kumaraswamidhas, K. Sankaranarayananasamy, "Whole Body Vibration Analysis for Drivers of Suspended Cabin Tractor Semitrailer", <i>Experimental Techniques</i> , DOI: 10.1111/j.1747-1567.2011.00786.x.
27.	C. Hemalatha, K. Sankaranarayananasamy and T. Radhakrishnan (2011), "Ducting Optimization – A Case Study", <i>International Journal of Applied Research in Mechanical Engineering</i> , 1(2), 31-36.
28.	P.Velmurugan, L.A. Kumaraswamidhas, K. Sankaranarayananasamy, "Optimization of whole body vibration analysis for suspended cabin tractor semi-trailer", <i>International Journal of Vehicle Noise and Vibration</i> , Vol. 8, No. 2, 2012, pp. 150-165.
29.	L.A.Kumaraswamidhas, P.Velmurugan and K. Sankaranarayananasamy, "Optimization of Human Comfort Reaction for Suspended Cabin Tractor Semitrailer Drivers", <i>World Academy of Science, Engineering and Technology</i> , Vol. 81 (2011), pp. 816-822.
30.	P.Velmurugan, L.A. Kumaraswamidhas, K. Sankaranarayananasamy, "Investigation on Influence of stiffness and hydro-pneumatic suspension for Dynamic Analysis of a Heavy Truck using ADAMS Simulation", <i>International Journal of Human Factors Modelling and Simulation</i> , Vol. 2, No. 3, 2011.
31.	Alphin.M.S, K. Sankaranarayananasamy "Finite Element Analysis to predict the Dynamic Characteristics of Human Trunk-Neck-Head for Whole Body Vibration " <i>International Journal of Human Factors Modelling and Simulation</i> , Vol. 2, No.1/2, 2011, pp. 14 – 25.
32.	Georgekutty S Mangalathu, N. Siva Shanmugam, K. Sankaranarayananasamy & T. Ramesh, "Decision Making in Risk Assessment of Producer Gas Furnaces: An Integrated Approach with AHP & Promethee Techniques" <i>International Journal of Manufacturing Engineering</i> , 2011, Vol. 10, Issue 1, pp. 49-54.
33.	Alphin.M.S, K.Sankaranarayananasamy, S.P.Sivapirakasam "Segmental Vibration characteristics of seated occupant from lumped parameter models" <i>Journal of Vibration and control</i> , DOI: 10.1177/1077546311423065
34.	Alphin.M.S, K. Sankaranarayananasamy, S P Sivapirakasam "Experimental Investigation to study the Influence of Handle Diameter on Low Frequency Hand Arm Vertical Vibration" <i>Human Factors and Ergonomics in Manufacturing & Service Industries</i> , DOI: 10.1002/hfm.20306
35.	Alphin.M.S, K. Sankaranarayananasamy and S.P.Sivapirakasam, "Experimental Evaluation of Whole Body Vibration exposure from Tracked Excavators with Hydraulic Breaker Attachment

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

	in Rock Breaking operations", Journal of Low Frequency Noise, Vibration And Active Control, Volume 29 Number 2 2010, Pp.101-110.
36.	N. Siva, Shanmugam , G., Buvanashakaran , K., Sankaranarayananasamy , S. Ramesh, Kumar "A transient finite element simulation of the temperature and bead profiles of t-joint laser welds " Materials & Design, Volume 31, Issue 9, October 2010, Pages 4528-4542.
37.	N. Siva Shanmugam, G. Buvanashakaran, and K. Sankaranarayananasamy , “ Experimental and finite element simulation of Laser Beam Welding of AISI 304 Stainless steel sheet ”, Experimental Techniques, Volume 34, Issue 5, pages 25–36, September/October 2010.
38.	K.R. Balasubramanian, K. Sankaranarayananasamy, T. Suthakar and S.P. Sivapirakasam "Mathematical modelling and optimisation of laser welding of butt joints" Int. J. Computational Materials Science and Surface Engineering, Vol. 3, No. 4, 2010.
39.	Muthu P, V. Dhanalakshmi and K. Sankaranarayananasamy, "Design and manufacturing tolerances optimization with quality loss functions", Int. J. Advanced Operations Management, Vol. 2, Nos. 1/2, 2010
40.	S.Sivakumar, V Dhanalakshmi, K Sankaranarayananasamy, “Interaction of CAD/CAI through feature extracted from STEP File”, Journal of manufacturing Technology Today, Vol. 08, Issue 12, pp.20-27, Dec 2009.
41.	P.Muthu, V.Dhanalakshmi, and K. Sankaranarayananasamy “Optimal tolerance design of assembly of minimum quality loss and manufacturing cost using metaheuristic algorithms”, Int J AdvManufTechnol, Volume 44, Numbers 11-12, 2009, pp. 1154-1164.
42.	G. Buvanashakaran, N. Siva Shanmugam, K. Sankaranarayananasamy & R. Sabarikanth, “A Study on Laser Welding Modes with varying Beam Energy Levels”, Proceedings of the Institution of Mechanical Engineers (IMEchE), Part C, Journal of Mechanical Engineering Science, Vol. 223, No. 5, pp. 1141-1156, 2009.
43.	KarthickJayaram J and K Sankaranarayananasamy, “Influence of 3PL in tolerance synthesis of an assembly: a successive case study, International Journal on services technology and Management, Vol. 12, pp.81, 2009.
44.	N. Siva Shanmugam, G. Buvanashakaran, K. Sankaranarayananasamy and K. Manonmani, “Influence of Beam Incidence Angle in Laser Welding of Austenitic Stainless Steel Using Finite Element Analysis”, Journal of Multidiscipline Modeling in Materials and Structures, Volume 5, 2009, pp. 257-262.
45.	S. P. Asok, K. Sankaranarayananasamy, T.Sundararajan, P. Starwin, R. Kalieswaran and M. Dinesh, “Pressure Drop Characteristics of water flow through Static Angular and Triangular Cavity Labyrinth Seals”, Engineering Applications of Computational Fluid Mechanics Vol. 2, No. 4, pp. 482–495, 2008.
46.	N. Siva Shanmugam, G. Buvanashakaran, K. Sankaranarayananasamy & K. Manonmani, “Some Studies on temperature profiles in AISI 304 stainless steel sheet during laser beam welding using FE simulation”, International Journal of Advanced Manufacturing Technology, Volume 43, Numbers 1-2, 2008, pp.78-94.
47.	S. P. Asok, K. Sankaranarayananasamy, T.Sundararajan, ANDR.Manivanan, “Effect of Labyrinth Cavities on cavitation reduction in a conical Valve”, International journal of Fluid Mechanics Research Vol. 35, No. 5, pp. 395–416, 2008.
48.	K.Jayaram, K. Sankaranarayananasamy, S.Arunachalam, T.Page, “Tolerance Synthesis and cost Optimization in Assembly: A Neural Network Approach”, Journal on Future Engineering and Technology, Volume 3, No.4, 2008.
49.	K.R. Balasubramanian, N. Siva Shanmugam, G. Buvanashakaran and K. Sankaranarayananasamy, “Numerical and experimental investigation of laser beam welding of AISI 304 stainless steel sheet, Advances in Production Engineering & Management”, Journal, Vol 3, No. 2, pp 93 – 105, 2008.
50.	S.P. Asok, K. Sankaranarayananasamy, T. Sundararajan, K. Rajesh and G. SankarGaneshan, “Neural network and CFD-based optimization of square cavity and curved cavity static labyrinth

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

	seals”, Tribology International, Vol 20, pp 1204-1216, 2007.
51.	KarthickJayaram and K Sankaranarayanasy, “Tolerance Synthesis of Robot Dynamic Parameters Using Artificial Neural Network”, Journal on Manufacturing Engineering, Issue 4, pp56-60, 2007.
52.	K.R. Balasubramanian, G. Buvanashakaran and K. Sankaranarayanasy, “Mathematical and ANN modeling of Nd:YAG laser welding of thin SS sheets” , Journal on Manufacturing Engineering, Issue 2, pp56-60, 2007.
53.	K.R. Balasubramanian, K. Sankaranarayanasy and G. Buvanashakaran, "Analysis of Laser welding parameters using artificial neural network" International Journal for the Joining of Materials, Volume 18 No. 3/4, pp99-104, December 2006.
54.	G.Buvanashakaran K.R.Balasubramanian,and K. Sankaranarayanasy, "Characterization of process parameters for Laser welding of stainless steel" WRI JOURNAL, Volume 27 No.2, pp 14-21, April - June 2006.
55.	K.G.Muthurajan, K. Sankaranarayanasy, S.B. Tiwari, and B. NageswaraRao, "Finite element modelling of adhesively bonded joints", Trends in Applied Science Research, Vol.1 (1), pp 25-40, 2006.
56.	K.G. Muthurajan, K. Sankaranarayanasy, S.B. Tiwari, and B. NageswaraRao., "Post-buckling of a thin film strip in a composite laminate", Trends in Applied Science Research, Vol.1 (1) pp 46-60, 2006.
57.	K.G. Muthurajan, K. Sankaranarayanasy, S.B. Tiwari, and B. NageswaraRao., "Evaluation of Carbon/Epoxy delamination fracture toughness", Trends in Applied Science Research, Vol.1 (2), pp144-1554, 2006.
58.	V. Dhanalakshmi, K. Sankaranarayanasy, S. Arunachalam, and S. C. L. Koh "Extraction of simple and concatenated features from a wire frame model using IGES data" Intl. J. Manufacturing Technology and Management, Volume 9, Issue ¾, pp 350 – 371, 2006
59.	V. Dhanalakshmi, K. Sankaranarayanasy, Subramaniam Arunachalam, S.C.LennyKoh , "Creating agility by simplifying product flow in a multiproduct assembly line", International Journal of Enterprise Network Management, vol.1, No.2, pp.166-178, 2006.
60.	B.Suresh, G.Chandramohan, J.N.Prakash, V.Balusamy and K.Sankaranarayanasy, "The Role of Fillers on friction and slide wear characteristics in Glass-Epoxy Composite systems" Journal of Minerals and Materials Characterization and Engineering Vol.5, pp 87-101, 2006.
61.	T. Christopher, K. Sankaranarayanasy and B. NageswaraRao, "Failure assessment of flawed steel cylinders tested under internal pressure", Steel Grips, Vol. 3, pp.130-137, 2005.
62.	S. Arunachalam, Tom Page, K. Sankaranarayanasy and V.Dhanalakshmi, "A Novel approach to part family formation in cellular Manufacturing using Fuzzy Analysis in CAD/CAM". SME Technical paper, ID TP05PUB67, 12 pp, 2005.
63.	T. Christopher, K. Sankaranarayanasy and B. NageswaraRao, "Correlating cryogenic fracture strength using a modified two-parameter method". Engineering Fracture Mechanics Vol 72 pp 475-490,2005.
64.	K.G. Muthurajan, K. Sankaranarayanasy, S.B. Tiwari, and B. NageswaraRao., "Nonlinear vibration analysis of initially stressed thin laminated rectangular plates on elastic foundations" Journal of sound and vibration Vol 282, pp 949-969, 2005.
65.	T. Christopher, K. Sankaranarayanasy and B. NageswaraRao, "Failure assessment of tensile cracked specimens of Aluminum alloys" Trans. ASME Vol. 126, pp 404-406, Aug 2004.
66.	K.G. Muthurajan, K. Sankaranarayanasy, S.B. Tiwari, and B. NageswaraRao, "Determination of elastic constants from measured natural frequencies of specially orthotropic cantilever plates". Material Science and Technology Vol. 20, pp 1303-1309, Oct 2004.
67.	V. Dhanalakshmi, K. Senthilkumaran, K. Sankaranarayanasy, S. Arunachalam and T. Page "Automatic evaluation of alternate tool access directions (TADs) using STEP for minimal setup changes" SME 2004 TP04PUB315.
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