

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

Curriculum Vitae

Brief Profile:

Myself, P. Asokan have joined as Lecturer in NIT, erstwhile REC in 1991. I contributed for the development of laboratories such as Production Process lab, CNC lab, and CAD/CAM labs subsequently. My area of research during my doctoral studies was Flexible manufacturing systems and continue to guide research scholars in the area of operations management, machining and optimization. I have developed master cam profile for the nearby Small scale industries and BHEL Trichy. Also I worked as coordinator for the defense project titled Sarvatra Bridge and launching mechanism for BHEL, Trichy. I have guided 14 Ph.D scholars and guiding 3 scholars and published 60 international journals. I also worked as Head of the department, Dean (Academic) of our institute from 2009-2013. I have received the best teacher award and distinguished alumni award from NIT Trichy.



1.	Name	:	Dr. P. Asokan
2.	Designation	:	Professor
3.	Office Address	:	Department of Production Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu 620015.
4.	Telephone (Direct) (Optional)	:	0431-2503506
	Mobile (Optional)	:	9443112380
5.	Email (Primary)	:	asokan@nitt.edu
		:	Email (Secondary) :
6.	Field(s) of Specialization	:	Operation Management, Optimization in Manufacturing

7. Employment Profile

Job Title	Employer	From	To
Teaching Assistant	Regional Engineering College, Tiruchirappalli	1988	1991
Lecturer	Regional Engineering College, Tiruchirappalli	1991	1999
Asst. /Assoc. Professor	National Institute of Technology, Tiruchirappalli	1999	2007
Professor	National Institute of Technology, Tiruchirappalli	2007	Till date

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

Examination	Board / University	Year	Division / Grade	Subjects
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Ph.D. Degree	Bharathidasan University, Tiruchirappalli	1998		Production Engineering
Master's Degree	Regional Engineering College, Tiruchirappalli	1990	75% (Honours)	Manufacturing Technology
Bachelor's Degree	Regional Engineering College, Tiruchirappalli	1987	75% (Honours)	Mechanical Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty / Department/ Centre / Institution	From	To
Member-Estate welfare committee	Institution	1997	1999
Hostel Warden	Institution	2002	2004
NIT-T Quarters Committee member	Institution	2003	2011
QIP Co-ordinator	Institution	2008	2009
Chairman Transport In-charge	Institution	2006	2008
Member/Special Invitee, BOG,NITT	Institution	2009	2011
Head of the Department	Department	2009	2012
HAC, Additional Chief Warden	Institution	2012	2012
DAC Member	Institution	Since Jan 2012	
Member Faculty Apportionment Committee	Institution	May 2012	
Dean Academic	Institution	2012	2014
Advisory Committee on Faculty Recruitment (ACoFaR)	Institution	April 2013	
Chairperson, Institute Accreditation Committee	Institution	Jan 2014	

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2007	Best Teacher Award	NITT
2014	Distinguished Alumni Award	NITT

12. Fellowships

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

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13. Details of Academic Work

(i) Curriculum Development

(ii) Courses taught at Postgraduate and Undergraduate levels

- Integrated Materials Management
- CNC Laboratory
- Engineering Practice
- Analysis and Control of Manufacturing Systems

(iii) Projects guided at Postgraduate level : 92

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
A knowledge based simulation of Advanced Manufacturing System	UGC	1994	1995	Completed
Concurrent Engineering Pilot Project (Sarvatra)	AICTE	1994	1995	Completed
Machining work	GKN sons, Trichy	1994	1995	Completed
17.5m Bridge Development for Sarvatra Project	BHEL	1995	1996	Completed
Modeling and Machining of Bottle dies	Prime Engg. Service, Trichy	1998	1999	Completed
Reverse Engg. For cold Isostatic Press& Intensifier Unit and Manufactured Production Drawings	HAPP-Trichy	2002	2003	Completed
Establishment of Reverse Engineering Laboratory	MHRD/TAT	2004	2007	Completed
Fund for Improvement of S & T Infrastructure in Universities and higher Educational Institutions (FIST)	DST	2009	2014	Ongoing
Improvement of surface characteristics of Bio-Degradable magnesium alloys through cryogenic machining	SERB DST	2013	2016	Ongoing
Exploration of Lean tools/techniques enabling sustainability in automotive organizations	DST	2014	2017	Ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
N. Baskar	Optimization of machining variables using Non-Traditional techniques.	Supervisor	2006
J. Jerald	Scheduling of flexible manufacturing systems using Non-Traditional optimization techniques.	Supervisor	2006
R. Christu Paul	Optimization of facility layout problem using Metaheuristics.	Supervisor	2006
S. Satishkumar	Optimal subdivision of depth of cut in CNC machining using evolutionary heuristics.	Supervisor	2006

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R. Siva Sankar	Optimization of machining parameters for rotation components and its implementation in CAPP.	Supervisor	2007
M. Chandrasekaran	Solving Job Shop scheduling problems and Integration with material requirements planning.	Supervisor	2007
R. Ravikumar	Modeling and optimization of machining parameters for Electro Chemical Machining process.	Supervisor	2008
R.M. Satheesh Kumar	Some evolutionary algorithms for facility layout design in flexible manufacturing systems.	Supervisor	2008
J. S. Senthilkumaar	Machining assessment and optimization of machining parameters for Inconel 718.	Supervisor	2009
V. Srinivasa Raman	Gearbox design optimization using evolutionary computation.	Supervisor	2009
A. Riaz Ahmed	Fabrication of hybrid (Al-SiC-B4C & Al-SiC-Glass) metal matrix composites and investigation on drilling operations.	Supervisor	2010
M. Rajkumar	Solving multi-criteria flexible job shop scheduling problems.	Supervisor	2011
A. Thillaivannan	EDM Machining Optimization	Supervisor	2011
S. Karthikeyan	Solving Flexible Job Shop Scheduling Problems using Nature Inspired Metaheuristic Optimization Approach	Supervisor	2015

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

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
Jun 1989	Non Destructive testing	National			REC, Trichy
Jun 1990	Recent Developments in factory Automation Technology	National			PSG, Coimbatore
1992	Computer Integrated Manufacturing	National			PSG, Coimbatore
2003	Dimensional Engineering and Tolerance Analysis	National			REC, Trichy
2003	Safety and Environment Management Emerging Trends	National			REC, Trichy
2004	Emerging Trends in Energy Management and Non-Conventional Energy	National			NITT
2004	Conference on Advances in Materials and Manufacturing Technology (CAMMT)	National			IIT, Madras

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2008	The Seven Habits of Highly Effective People	National			Munnar/NITT
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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National / Local)	Date (s)	Role	Venue
CNC Programming and its Operations	National	Mar 9-20, 1998		REC Trichy
Modeling and Simulation of Manufacturing Systems	National	Dec 1999		REC Trichy
Recent Trends in Modeling and Analysis of Manufacturing Systems	National	Dec 16-27, 2002		REC Trichy
National Conference on Modeling and Analysis of Production Systems	National	Jan 22 -23, 2004		NIT Trichy
Emerging Trends in CAD/CAM- Theory and Practice	National	Dec 20-31, 2004		NIT Trichy
Computer Aided Manufacturing	National	Dec 2-3, 2005		NIT Trichy
Optimization Algorithms for Manufacturing Applications	National	Jun 9 – 10, 2006		NIT Trichy
Sixth International Conference on Supply Chain Management and Information Systems	International	Dec 8 – 10, 2008		NIT Trichy
Innovative Product Design and Rapid Manufacturing Strategies	National	Apr 12-13, 2012		NIT Trichy
Micro Manufacturing	National	Mar 14-15, 2014		NIT Trichy
Agile Manufacturing	National	Mar 28-29, 2014		NIT Trichy
Optimization and its Applications	National	Oct 27-28, 2014		NIT Trichy
International Conference on Advances in Design and Manufacturing	International	Dec 5-7, 2014		NIT Trichy
International Conference on Advances in Production and Industrial Engineering	International	Jan 23-24, 2015		NIT Trichy
Recent Trends in Manufacturing Technology	National	Sep 26- Oct 1, 2016		NIT Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization

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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	ISTE	LM 31313 / 2001
Life Member	IPE	SLF3016 / 2006
Life Member	Institution of Engineers	IE1141216

20. Academic Foreign Visits

Country	Duration of Visit	Programme
NUS, Singapore	1 month (2007)	Micromachining Training

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Year	Page numbers	Impact Factor of the Journal (Optional)
P.Asokan, P.Subramaniam	Flexible Manufacturing	The Journal of Manufacturing Technology and Management, Indian Institute of Production Engineers, Bangalore	1(2)	1997	9-13.	
P.Asokan, M. Sitaram Prasad, M.Sachithanandam	Optimization of FMS layout using Genetic Algorithm	Industrial Engineering Journal, Mumbai	XXVII(1)	1998	12-19.	
R.Saravanan, P. Asokan , M.Sachithanandam	Comparative analysis of Conventional and Non-Conventional optimization techniques for CNC turning processes	International Journal of Advanced Manufacturing Technology	17	2001	471-476.	
P. Asokan , G.Prabhakaran, G.Satheesh Kumar	Machine Cell grouping in cellular manufacturing systems using non traditional optimization	International Journal of Advanced Manufacturing Technology	18	2001	140-147.	

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	techniques- A comparative study					
R.Saravanan, P. Asokan , M.Sachithanandam	A multi Objective Genetic Algorithm (GA) approach for optimization of surface grinding operations	International Journal of Machine tools and Manufacture	42	2002	1327-1334.	
R.Saravanan, P. Asokan , K.Vijayakumar	Machining Parameters Optimization for turning cylindrical stock into continuous finished profile using Genetic Algorithm (GA) and Simulated Annealing (SA)	International Journal of Advanced Manufacturing Technology	21	2003	1-9.	
K.Vijayakumar, G.Prabhakaran, P. Asokan , R.Saravanan	Optimization of Multi-pass turning operations using ant colony system	International Journal of Machine Tools & Manufacture	43	2003	1633-1639.	
N.Babu, N.Baskar, P.Asokan, R.Saravanan	Selection of optimum machining parameters for surface grinding operations using simulated annealing algorithm	Journal of Manufacturing Technology Today, CMTI	3 (2)	2004	12-18.	
N.Baskar, P.Asokan, G.Prabhakaran, R.Saravanan,	Optimization of machining parameters for multi-tool milling operations using Memetic Algorithm	Journal of Manufacturing Technology Today, CMTI, Bangalore	3 (4)	2004	6-11.	
J.Jerald, P.Asokan, R.Saravanan, A.DelphinCarolinaRani	Simultaneous Scheduling of Parts and AGVs in an FMS Using Genetic Algorithm	Journal of Manufacturing Technology Today, CMTI, Bangalore	3 (12)	2004	8-11.	
S.Balan, P.Asokan, Pradeep Kumar	Vehicle routing in Supply Chain Management	Productivity	44 (4)	2004	606 - 612.	
N.Baskar, R.Saravanan, P. Asokan , G.Prabhakaran	Ants Colony algorithm approach for multi-objective optimization of surface grinding operations	International Journal of Advanced Manufacturing Technology	23	2004	311-317.	
G. Prabhakaran, P. Asokan , P. Ramesh, S. Rajendran	Genetic-algorithm-based optimal tolerance allocation using a least-	The International Journal of	24	2004	647-660.	

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	cost model	Advanced Manufacturing Technology				
R.Siva Sankar, P.Asokan, S.Kumanan, T.Selvaraj,	Adaptive Genetic Algorithm approach for optimization of Multipass turning operations	Manufacturing Technology Today, CMTI, Bangalore	4 (5)	2005	12-16.	
T.Pannerselvam, G.Karthikeyan, N.Baskar, R.SivaSankar, P.Asokan,	Economical machining parameters for milling operations by Ants Colony Algorithm	Manufacturing Technology Today, CMTI, Bangalore	4 (9)	2005	8-12.	
J.Jerald, P. Asokan , G.Prabhakaran, R.Saravanan	Scheduling Optimization of Flexible Manufacturing Systems using Particle Swarm Optimization algorithm	International Journal of Advanced Manufacturing Technology	25	2005	964-971.	
Muruganandam, G.Prabhakaran, P. Asokan , V. Baskaran	A Memetic algorithm approach to the cell formation problem	International Journal of Advanced Manufacturing Technology	25	2005	988-997.	
N.Baskar, P. Asokan , R.Saravanan, G.Prabhakaran	Optimization of machining parameters for milling operations using Non-conventional methods	International Journal of Advanced Manufacturing Technology	25	2005	1078-1088.	
P. Asokan , N.Baskar, K.Babu, G.Prabhakaran, R.Saravanan	Optimization of Surface Grinding operations using Particle Swarm Optimization Technique	ASME Journal of Manufacturing Science and Engineering	127	2005	885-892.	
R.Saravanan, R.Siva Sankar, P. Asokan , K.Vijayakumar, G.Prabhakaran	Optimization of Cutting conditions during continuous finished profile machining using non-traditional techniques	International Journal of Advanced Manufacturing Technology	26	2005	30-40.	
G. Prabhakaran, P. Asokan , B.S. Girish, A. Muruganandam	Machine cell formation for cellular manufacturing systems using an ant colony system approach	The International Journal of Advanced Manufacturing Technology	25	2005	1013-1019.	
G. Prabhakaran, P.	Sensitivity-based	The	25	2005	516-526.	

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Asokan, S. Rajendran	conceptual design and tolerance allocation using the continuous ants colony algorithm (CACO)	International Journal of Advanced Manufacturing Technology				
J.Jerald, P. Asokan, R.Saravanan, A.Delphin Carolina Rani	Simultaneous Scheduling of Parts and AGVs in an FMS using Nontraditional Optimization Techniques	International Journal of Applied Management Technology	3	2005	1	
G. Prabhakaran, B. Shahul Hamid Khan, P. Asokan, M. Thiyagu	A Particle swarm optimization algorithm for permutation flowshop scheduling with regular and non-regular measures	International Journal of Applied Management and Technology	3(1)	2005	171-182	
S.Sathish Kumar, P. Asokan, S.Kumanan	Optimization of depth of cut in multi-pass turning using nontraditional optimization techniques	International Journal of Advanced Manufacturing Technology, UK	29	2006	230-238.	
P.Asokan, S.Kumanan, S.SatishKumar,	Selection of Optimal conditions for CNC Multi- Pass Face Milling System Using Evolutionary Computation	Manufacturing Technology Today, CMTI, Bangalore	5 (7)	2006	26-30.	
V. Srinivasa Raman, K.Bharathi Raja, P.Asokan and S.Kumanan,	Metaheuristic Approach for Multi-Objective Gear Box Design Optimization	Journal of Manufacturing Engineering	1 (1)	2006	29-40.	
R.Christu Paul, P. Asokan, V.I.Prabhakar	A solution to the facility layout problem having passages and inner structure walls using Particle Swarm Optimization	International Journal of Advanced Manufacturing Technology	29	2006	766-771.	
J.Jerald, P. Asokan, R.Saravanan, A.Delphin Carolina Rani	Simultaneous Scheduling of Parts and AGVs in an FMS environment using Adaptive Genetic Algorithm	International Journal of Advanced Manufacturing Technology	29	2006	584-589.	
M.Chandrasekaran, P. Asokan, S.Kumanan,	Solving Job Shop Scheduling problems	International Journal of	31	2006	580-593.	

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T.Balamurugan, S.Nickolas	using Artificial Immune System	Advanced Manufacturing Technology				
N.Baskar, P. Asokan , G.Prabhakaran, R.Saravanan	Selection of Optimal Machining Parameters for Multi Tool Milling Operations Using a Memetic Algorithm	Journal of Materials Processing Technology	174	2006	239-249.	
M. Chandrasekaran , P. Asokan , S.Kumanan, T.Balamurugan	Sheep Flocks Heredity Model Algorithm for Solving Job Shop Scheduling Problems	International Journal of Applied Management and technology	4(1)	2006	79-100	
J.Jerald, P. Asokan , G.Prabhakaran, R.Saravanan	Scheduling of Parts and AS/RS in an FMS Using Genetic Algorithm	International Journal of Applied Management and technology	4(1)	2006	25-34	
R.Siva Sankar, P. Asokan , R.Saravanan, S.Kumanan, G.Prabhakaran	Selection of machining parameters for constrained machining problem using evolutionary computation	International Journal of Advanced Manufacturing Technology	32	2007	892-901	
Shahul Hamid Khan G. Prabhakaran, and P. Asokan	A grasp algorithm for m-machine flowshop scheduling problem with bicriteria of makespan and maximum tardiness	International Journal of Computer Mathematics	84	2007	1731-1741	
G. Prabhakaran, R. Ramesh, and P. Asokan	Concurrent optimization of assembly tolerances for quality with position control using scatter search approach	International journal of production research	45(21)	2007	4959-4988	
C.P. Jesuthanam, S. Kumanan, and P. Asokan	Surface roughness prediction using hybrid neural networks	Machining science and technology	11(2)	2007	271-286	
M.Chandrasekaran, P. Asokan , S.Kumanan	Application of Selective Breeding Algorithm for Job Shop Scheduling Problems	International Journal of Manufacturing Science and Technology	9(1)	2007	103-118	
M.Chandrasekaran, P.	Multi Objective	International	9(2)	2007	47-54	

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Asokan, S.Umamaheswari, C.S.P.Rao	Optimization for Job shop scheduling Using Sheep Flocks Heredity Model Algorithm	Journal of Manufacturing Science and Technology				
S.Sathish Kumar and P. Asokan	Optimal Subdivision of depth of cut in CNC Multi Pass face milling System	International Journal of Manufacturing Science and Technology	9(2)	2007	75-88	
R.Siva Sankar, P. Asokan, G.Prabaharan, Venkata Phani	A CAPP Framework with Optimized Process Parameters for Rotational Components	International Journal of Production Research	46(20)	2008	5561-5587	
R.M.Satheesh Kumar, P. Asokan, S.Kumanan	Design of Loop layout in Flexible Manufacturing Systems using Non-traditional Optimization technique	International Journal of Advanced Manufacturing Technology	38(5-6)	2008	594-599	
P. Asokan, R. Ravi Kumar, R. Jeyapaul, M.Santhi	Development of Multi objective optimization models for Electro Chemical Machining Process	International Journal of Advanced manufacturing Technology	39 (1-2)	2008	55-63.	
M.Chandrasekaran, P. Asokan	Optimization of total holding cost with no tardy jobs in job shop scheduling	International Journal of Manufacturing Science and Technology	10(1)	2008	5-19	
S.Sathish Kumar, P. Asokan	Selection of optimal conditions for CNC multi-tool drilling system using non-traditional techniques	International Journal of Machining and Machinability of Materials	3(1-2)	2008	190 - 207	
P. Asokan, J. Jerald, S. Arunachalam, T.	PageApplication of Adaptive Genetic Algorithm and Particle Swarm Optimisation in scheduling of jobs and AS/RS in FMS	International Journal of Manufacturing Research	3(4)	2008	393 – 405	
R.M. Satheesh Kumar, P. Asokan, S.Kumanan, B.Varma	Scatter Search algorithm for Single row Layout Problem in FMS	Advances in Production Engineering and Management	3(4)	2008	193-204	
J.S.Senthilkumaar, P. Asokan,	Machinability assessment of Inconel	International Journal of	2	2008	71-84	

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R.M.Arunachalam	718 by design of experiment coupled with Genetic Algorithm optimization	Manufacturing Technology				
R.M.SatheeshKumar, P. Asokan , S.Kumanan	Artificial Immune System based algorithm to solve Unidirectional Loop Layout Problem in Flexible Manufacturing System	International Journal of Advanced Manufacturing Technology	40 (5-6)	2009	553-565.	
J.S. Senthil kumaar, R.Saravanan, P.Asokan,	Multiple optimizations for selection of machining parameters of Inconel-718 material turning process	Manufacturing Technology Today, CMTI, Bangalore	7 (2)	2009	3-7.	
R. Ravi Kumar, P. Asokan , J.Jerald , M. Shanthi.	Optimization of Parameters in Electro Chemical Machining using Non- Traditional Techniques	Manufacturing Technology Today, CMTI, Bangalore	7 (2)	2009	7-11.	
R. Ahamed, P. Asokan , S. Aravindan	EDM of hybrid Al–SiCp–B4Cp and Al–SiCp–Glassp MMCs	The International Journal of Advanced Manufacturing Technology	44(5-6)	2009	520-528.	
A. Gnanavelbabu, J. Jerald, A. Noorul Haq, and P. Asokan	Multi objective scheduling of jobs, AGVs and AS/RS in FMS using artificial immune system	Advances in Production Engineering & Management	4(3)	2009	139-150	
P. Asokan , J.S.Senthilkumaar, R.M.Arunachalam	Simultaneous optimization of machining parameters in turning of Inconel 718	Journal of Modern Manufacturing Technology	1 (1)	2009	59-70	
M.Rajkumar, P. Asokan , V.Vamsikrishna, S.Satishkumar	A GRASP algorithm for multi-objective flexible job shop scheduling problems	International Journal Industrial Engineering Practices	1(2)	2009	129-139	
R. Ahamed, P. Asokan , S. Aravindan, M. K. Prakash	Drilling of hybrid Al-5% SiCp-5% B4Cp metal matrix composites	The International Journal of Advanced Manufacturing Technology	49(9-12)	2010	871-877.	

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M.Rajkumar, P. Asokan , V.Vamsikrishna	A GRASP algorithm for flexible job shop scheduling with maintenance constraints	International Journal Production Research	48(22)	2010	6821-6836	
P. Asokan , J.S.Senthilkumaar	Intelligent selection of machining parameters in turning of Inconel 718 using multi objective optimization coupled with MADM	International Journal of Machining and Machinability of Materials	8(1/2)	2010	209 – 225	
M.Rajkumar, P. Asokan , T.Page, S.Arunachalam	A GRASP algorithm for Integration of process planning and scheduling in a flexible job shop	International Journal of Manufacturing Research	5(2)	2010	230-251	
R.M. Satheesh Kumar, P. Asokan , S.Kumanan	Artificial Immune System based algorithm to solve Linear and Loop layout Problems in Flexible Manufacturing System	International Journal of Product Development	10(1-3)	2010	165-179	
A. Thillaivanan, P. Asokan , K. N. Srinivasan, and R. Saravanan	Optimization of operating parameters for EDM process based on the Taguchi method and artificial neural network	International Journal of Engineering Science and Technology	2(12)	2010	6880-6888	
Rajkumar, M., P. Asokan , N. Anilkumar, and T. Page	A GRASP algorithm for flexible job-shop scheduling problem with limited resource constraints	International Journal of Production Research	49(8)	2011	2409-2423.	
Padmanabhan, S., V. Srinivasa Raman, P. Asokan , Subramaniam Arunachalam, and Tom Page	Design optimisation of bevel gear pair	International Journal of Design Engineering	4(4)	2011	364-393.	
Panneerselvam, K., K. Pradeep, and P. Asokan	Optimization of end milling parameters for glass fiber reinforced plastic (GFRP) using grey relational analysis	Procedia Engineering	38	2012	3962-3968.	
Padmanabhan, S., M. Chandrasekaran, P. Asokan , and V. Srinivasa Raman	A Performance Study of Real Coded Genetic Algorithm on Gear Design Optimization	In Advanced Materials Research	6(22)	2012	64-68	
Karthikeyan, S., P. Asokan , S. Nickolas,	Solving flexible job-shop scheduling	International Journal of	26(1-4)	2012	81-103.	

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and Tom Page	problem using hybrid particle swarm optimisation algorithm and data mining	Manufacturing Technology and Management				
Karthikeyan, S., P. Asokan , and S. Nickolas	A hybrid discrete firefly algorithm for multi-objective flexible job shop scheduling problem with limited resource constraints	The International Journal of Advanced Manufacturing Technology 72(9-12)	72(9-12)	2014	1567-1579.	
Karthikeyan, S., P. Asokan , and M. Chandrasekaran	A hybrid discrete firefly algorithm for multi-objective flexible job shop scheduling problems with maintenance activity	In Applied Mechanics and Materials	575	2014	922-925	
Karthikeyan, S., P. Asokan , S. Nickolas, and Tom Page	A hybrid discrete firefly algorithm for solving multi-objective flexible job shop scheduling problems	International Journal of Bio-Inspired Computation	7(6)	2015	386-401.	
Dinesh, S., V. Senthilkumar, P. Asokan , and D. Arulkirubakaran	Effect of cryogenic cooling on machinability and surface quality of bio-degradable ZK60 Mg alloy	Materials & Design	87	2015	1030-1036.	
Vinodh, S., R. Ben Ruben, and P. Asokan	Life cycle assessment integrated value stream mapping framework to ensure sustainable manufacturing: a case study	Clean Technologies and Environmental Policy	1	2015	1-17.	
J. Cyril Pilligrin, P. Asokan , J. Jerald, Sumit Kumar, G. Kanagaraj	Experimental Investigation on Performance of Additive Mixed Dielectric during Micro-Electric Discharge Drilling on 316L Stainless Steel	Materials and Manufacturing Processes		Aug 2016		
Dinesh, S., V. Senthilkumar, P. Asokan	Experimental Studies on Cryogenic Machining of Bio-Degradable ZK60 Mg Alloy Using Micro-	Materials and Manufacturing Processes		Aug 2016		

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(B) Conferences/Workshops/Symposia Proceedings

- C.R.Kandaswamy, P.Asokan, "CAD/CAM Application in Master Cam Profile Generation", AIMTDR Conference, PSG college of technology, Coimbatore, 1992, pp. 54-59.
- P.Asokan, M.Sachithanandam, "Simulation of Manufacturing Systems", Second National Conference on CAD/CAM, PSG College of Technology, Coimbatore, 19-20 August 1994, pp. M2.1-2.2.
- P.Asokan, M.Sachithanandam, "An Interactive Computer modeling and simulation for the evaluation of manufacturing planning and control strategies", National Conference on Quality Engineering in Aerospace Technologies, 27-28 Oct 1995, DRDL Hyderabad, pp H1-H6.
- K.Thanga Durai, P.Asokan, M.Sachithanandam, "A Knowledge based simulation of Flexible Manufacturing System", International Conference on intelligent Robotics System. Nov 1995, Bangalore, pp 524-528.
- P.Asokan, M.Sachithanandam, K. Baskar, S. Sathish Kumar, "Development of an algorithm for controlling AGVs in Flexible Manufacturing System", International Conference on CAD CAM, Automation, Robotics and Factories of Future, Jan 1996, New Delhi, pp159-165.
- P.Asokan, M.Sachithanandam, Sitaram Prasad, "Computer Simulation- An aid for class room instruction on FMS", Advanced simulation Technologies International Conference 1998, The society for Computer Simulation International, Boston, Massachusetts, April 1998, pp 135-138.
- M.Sachithanandam, P.Asokan, J. Antony Grieg, "Analysis of Flexible Manufacturing system using ANOVA", National Conference on intelligent Manufacturing Systems, CIT Coimbatore, 6-7 Feb 1998, pp. I3.1-3.4
- P.Asokan, P.Deivam, M.Sachithanandam, "A combined approach for layout optimization using Genetic Algorithm and Simulation", National Conference on Intelligent Manufacturing Systems, CIT Coimbatore, 6-7 Feb 1998, J 4.1-4.8
- P.Asokan, M.Sachithanandam, "A Comparative study of facility layout in FMS using GA under varying genetic operators", AIMTDR Conference, IIT, Kharagpur, December 1998, pp.555-560.
- N.Baskar, P.Asokan, R.Saravanan, G.Prabhakaran, "Selection of optimal conditions in multipass face milling using Non-Conventional methods", pg 61-69, 20th AIMTDR Conference, 2002.
- N.Baskar, P.Asokan, R.Saravanan and G. Prabhakaran, "Optimization of Machining Parameters for Milling Operations using Particle Swarm Optimization Algorithm", National Conference on Modelling and Simulation in Manufacturing – Mar' 15-16 2003, pages E13 - E19.
- R. Thirumalai, G.Prabhakaran, P.Asokan, "Design Optimization of Cellular Manufacturing Systems using Simulated Annealing algorithm and Genetic Algorithm. ", National Conference on Modelling and Simulation in Manufacturing – Mar'15-16, 2003, pp. D73 - D84

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

- J.Jerald, P.Asokan, G.Prabhakaran, R. Saravanan, "Scheduling of FMS Using Ant Colony Optimization", National Conference on Modelling and Simulation in Manufacturing – Mar' 15-16, 2003, pp.D55 - D61
- P.Asokan, G.Prabhakaran, N.Baskar, R.Saravanan, "Optimization of machining parameters for milling operations using Ant colony algorithm and Genetic algorithm", World class manufacturing, Amrita Institute of technology and science, Coimbatore, 2003, pp 39-46
- Sundara vinayaga murthy, N.Baskar, P.Asokan, "Optimization of machining parameters for multi pass Face milling operation using Particle Swarm Optimization(PSO) Technique, National conference on Modeling and analysis of production systems (MAPS-2004), National Institute of Technology Tiruchirappalli, January 22-23, 2004.
- J.Jerald, P.Satheesh, P.Asokan and G. Prabhakaran, 'Scheduling optimization of FMS using Memetic Algorithm (PSO & TS)', National conference on Modelling and Analysis of Production Systems". (MAPS-2004), National Institute of Technology Tiruchirappalli, January 22-23, 2004.
- P.K. Srividhya, N.Baskar, P.Asokan, 'Optimization of Multipass Milling Operation Via Particles Swarm Optimization". National conference on Modelling and Analysis of Production Systems". (MAPS-2004), National Institute of Technology Tiruchirappalli, January 22-23, 2004.
- P.K. Srividhya, N.Baskar, P.Asokan, 'Optimization of Milling operations using Genetic Algorithms", Conference on Advances Materials and Manufacturing technology, IIT, Chennai, April 2004, 27-28.
- Sundara Vinayaga Murthy, N.Baskar, P.Asokan, "Optimization of Machining Parameters for Multipass Face Milling Operations using Memetic Algorithm", Conference on Advances Materials and Manufacturing technology, IIT, Chennai, April 2004, 27-28.
- K.Babu, N.Baskar, P.Asokan, R.Saravanan, "Optimizing the process parameters of surface grinding operations – A Memetic approach", Conference on Advances Materials and Manufacturing Technology, IIT, Chennai, April 2004, 29-30.
- S.Satish Kumar, P.Asokan, G.Prabhakaran, "Determination of Optimal Sub-division of depth of cut for CNC Multipass turning system with constraints using Simulated Annealing (SA)", 21st AIMTDR, VIT, Vellore, 20-22 December 2004, pp 429-435.
- K.Babu, N.Baskar, P.Asokan, R.Saravanan, "Computerized optimization of process parameters for surface grinding operations using adaptive genetic algorithm (AGA)", International Conference on Responsive Supply Chain and Organizational Competitiveness (RSC –2004), CIT, Coimbatore, Jan' 5-6, 2004.
- J.Jerald, P.Asokan, G.Prabhakaran, P.Satheesh, "Scheduling Optimization of FMS using Memetic Algorithm", International Conference on Responsive Supply Chain and Organizational Competitiveness (RSC –2004), CIT, Coimbatore, Jan' 5-6, 2004.
- S.Satish Kumar, P.Asokan, G.Prabhakaran, "Determination of optimal sub-division of depth of cut for CNC Multipass turning system with constraints using Genetic Algorithm (GA), International

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

Conference on Responsive Supply Chain and Organizational Competitiveness (RSC –2004), CIT, Coimbatore, Jan' 5-6, 2004.

- R.Siva Sankar, P.Asokan, S.Kumanan, “Optimization of cutting parameters for Multipass Turning operation using Particle Swarm Optimization”, ICCES’05, IIT Madras, December 2005. pp 3292-3297.
- R.Siva Sankar, P.Asokan, S.Kumanan, “Optimization of parameters for Turning operations using ANN and Particle Swarm Technique”, International Conference on CAD/CAM, Robotics and Factories of the Future (CARS & FOF), 19-27 July 2006, VIT Vellore.
- M.Chandrasekaran, P.Asokan, S.Kumanan, S.Umamaheswari, “A Hybrid approach for optimization of Multi objective Job shop scheduling problems”, International Conference on Global Manufacturing and Innovation, Coimbatore Institute of Technology, Coimbatore, 27-29 July 2006, pp. 43.
- R.M. Satheesh Kumar, P.Asokan, S.Kumanan, “Design of Loop Layout in Flexible Manufacturing System Using Non-Traditional Optimization Technique”, First international, 22nd All India Manufacturing Technology Design & Research Conference, IIT Roorkee, 21-23 Dec 2006.
- S. Aravindan, M. Thiruvalluvar, and P. Asokan. "APPLICATION OF ANT COLONY OPTIMIZATION FOR EFFECTIVE SCHEDULING OF CLH PROCESSES IN BHEL." In Proceedings of the International Conference on Modeling and Simulation 2006 3–5 April 2006, Kuala Lumpur, Malaysia, p. 6. 2006.
- P.Asokan, S.Satish Kumar, S.Kumanan “Selection of optimal conditions for CNC multi-tool drilling system using Genetic Algorithm”, First international, 22nd All India Manufacturing Technology Design & Research Conference, IIT Roorkee, 21-23 Dec 2006.
- P.Asokan and J. Jerald, “ Integrated Scheduling of Jobs, AGVs and AS/RS in an FMS using Particle Swarm Optimization” National Conference on Factory Automation, Robotics and Soft Computing, 18-19, January, 2007, NIT, Warangal.
- M.Rajkumar, P. Asokan, T.Page “An illustrative study of flexible job shop using GRASP, International conference on Advances in Industrial Engineering Applications, College of Engineering Guindy, Anna University Chennai, Jan’ 2010.
- M.Rajkumar, P. Asokan, “Multi-objective flexible job shop scheduling problems using GRASP, International conference of the Society of Operations Management, NITIE, Mumbai, Dec’ 2010.
- S. Karthikeyan, P. Asokan “A hybrid firefly algorithm for solving bi-criteria flexible job shop scheduling problem”, International Conference on Industrial Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, Nov 2013.
- S. Karthikeyan, P. Asokan, S. Nickolas “A hybrid discrete firefly algorithm for flexible job shop scheduling problem with maintenance activities”, International Conference on Advances in Industrial Engineering, Anna University, Chennai, Jan 2014.

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

- Ben Ruben, S Vinodh, P. Asokan, “Application of ISM for analysis of barriers in an integrated lean sustainable manufacturing environment”, International Conference on Industrial Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, Nov 2015.
- R. Prabhakaran, J. Jerald, J. Cyril Pilligrin, P. Asokan, “An experimental investigation of micro-turning process using coconut oil-water emulsion as a green cutting fluid” International conference on Smart design & Sustainable manufacturing, Alagappa Chettiar College Of Engineering And Technology, Karaikudi.
- P. Udayanand, P. Asokan, “Design modification in mixing sphere of supercritical boiler by plugging the nozzles for hydraulic testing – A case study” International conference on Smart design & Sustainable manufacturing, Alagappa Chettiar College Of Engineering And Technology, Karaikudi