

## PROFILE

- 1 Name** : **Dr. V. P. ARUNACHALAM**
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- 4 Date of Birth & Age** : 10-06-1947, 61 Yrs
- 5 Educational Qualifications** :

Sl. No.	Academic Qualification	Specialization	Institution	Year of Passing	Class Obtained
1	B.E.	Mechanical Engineering	Coimbatore Institute of Technology, Coimbatore - 14	1971	I
2	M.E.	Machine Tool Engineering	P.S.G. College of Technology, Coimbatore - 04	1973	I
3	Ph.D.	Mechanical Engineering (Analysis and Control of Mechanical Systems using Block Pulse Functions and Single Term Walsh Series)	Government College of Technology, Coimbatore -13	1988	-

- 6 Teaching Experience** : UG - 32 Years  
PG - 25 Years
- 7 Research Experience** : 24 Years  
In the field of Analysis and Control of Mechanical Systems using Computers, CAD, CAM, Robotics, Quality Control, Composite Materials and Soft Computing.
- 8 Papers Published** : 1. International Journals - 32  
2. National Journals - 13  
3. International Conferences - 22  
4. National Conferences - 41
- 9 Number of Research Scholars who are pursuing research work leading to Ph.D. Degree under my guidance** : **Number of Research Scholars got Ph.D Degree**  
Bharathiar University - 10  
Anna University, Chennai - 2
- Number of Research Scholars pursuing research work in Anna University, Coimbatore - 5

**10 Summer and Winter Schools :**  
**Attended**

Sl.No	Name	Place	Date
1	Advanced Analysis and Design of Production System	College of Engg., Guindy, Chennai-25	29.06.77 To 25.07.77
2	Fatigue Design	Indian Institute of Technology, Chennai-36	01.05.78 To 14.05.78
3	Low Cost Automation	Coimbatore Institute of Technology, Coimbatore -14.	01.06.81 To 14.06.81
4	Oil Hydraulics and Pneumatics	PSG College of Technology, Coimbatore-4	09.05.82 To 23.05.82
5	Computer Integrated Manufacturing Systems	PSG College of Technology, Coimbatore-4	08.05.83 To 22.05.83
6	Computer Aided Production System Design	College of Engineering, Anna University, Chennai-25.	19.12.83 To 30.12.83
7	Hydraulics and Pneumatics in Manufacturing	Indian Institute of Technology, Chennai-36	04.06.84 To 15.06.84
8	Workshop on ' Computer Applications in Mechanical Engineering'	Indian Institute of Technology, Chennai-36	18.06.84 To 22.06.84
9	Instructional Design And Delivery System	T.K.M. College of Engineering, Kollam, Kerala	11.12.85 To 13.12.85
10	Computer Aided Design and Drafting	PSG College of Technology, Coimbatore-4	14.06.87 To 27.06.87
11	Industrial Applications of Computer Aided Design and Computer Graphics	College of Engineering, Anna University, Chennai-25.	05.06.88 To 18.06.88
12	Design, Manufacture and Testing of Gears	National Institute of Technology, Mysore-8	03.10.88 To 15.10.88
13	Advances in Production Tooling and Manufacturing Technology	PSG College of Technology, Coimbatore-4	07.06.89 To 20.06.89
14	Orientation for Machine Design Educators for future	Institution of Engineers (India) Bangalore	15.03.89 To 18.03.89
15	Factory Automation Technology	PSG College of Technology, Coimbatore-4	03.06.90 To 16.06.90
16	Product Development Technique using Rapid Prototyping Technique, Tooling and Virtual Manufacturing.	PSG College of Technology, Coimbatore-4	01.04.98 To 14.04.98

- 11 Industrial Training** : 3 Months Industrial Training at Madras Machine Tools Manufacturers Ltd, Coimbatore in the field of Machine Tool Design and Manufacturing.
- 12 Active Involvement in the Development of Laboratories** : Involved in the Development of the following laboratories in the Department of Production Engg. (PG) and Mechanical Engg. (UG) at Government College of Technology, Coimbatore –13.

Sl.No	Name of the Lab	Funding Agency	Amount Received (Rs in Lakhs)
1	Computer Aided Design	DCA	8
2	Robotics Lab	DCA	10
3	Flexible Manufacturing System (FMS) Lab	DCA	5
4	Computer Lab	State Govt.	40
5	CAD / CAM Lab Govt. Engg. Colleges	State Govt.	75
6	CAD/CAM Lab, Vibration analysis Lab	World Bank under TEQIP	105

- 13 Current Field of Interest** : In the field of Automation Production System and Computer Aided Manufacturing
- Computer Aided Design (CAD)
  - Computer Aided Manufacturing (CAM)
  - Computer Integrated Manufacturing (CIM)
  - Flexible Manufacturing System (FMS)
  - Robotics
  - Group Technology
  - Composite Materials
  - Computer Numerical Control (CNC) Systems.
  - Total Quality Management
  - Business Management
- 14 Membership in Professional Bodies** : MIE (M / 050099 / 7)
- 15 Consultancy** :

- ❖ Trailer design verification / validation for M/S. Balmer Lawrie & Co Ltd (A Govt. of India Enterprise), Coimbatore.
- ❖ Determination of type of furnace installed at M/S. CPRM steels, Idigarai, Coimbatore – for the office of Assistant Commissioner of Central Excise.
- ❖ Stability assessment of Giant wheel erected by M/S. Family Fair 2003 at VOC park, Coimbatore.
- ❖ Expert opinion on the functioning of submersible pump sets –Requested by the Deputy Commissioner of Central Excise.
- ❖ Design validation of Air Compressor, design developed by M/S. SEVA sustainable – Agriculture & Environmental Voluntary Action, Madurai.

**16 Other Academic and Administrative activities**

- ❖ Vice Principal, Government College of Technology, Coimbatore, Tamilnadu
- ❖ Professor & Head, Dept. of Mechanical Engineering(UG and PG), GCT, Coimbatore.
- ❖ NBA, Expert Committee Member.
- ❖ AICTE Expert Committee Member to inspect Engineering Colleges.
- ❖ AICTE Staff Selection Committee Member.
- ❖ DOTE Member of Expert Committee to inspect new Institutions / Introduction of Additional Courses / Increase intake in the Existing Institutions. ( B.E. Courses in Engineering Colleges , MBA and MCA in School of Management and Arts Colleges)

- ❖ Anna University Inspection Committee Member to consider the grant of Provisional Affiliation for UG and PG Programmes.
- ❖ Academic Council Member, GCT.
- ❖ Expert for Tamil Nadu Industrial Investment Corporation valuation
- ❖ Expert Member of Staff Selection Committee in various Engineering Colleges.
- ❖ Reviewer of papers submitted for National and International Conferences held at PSG Tech, CIT, GCT and other Colleges.
- ❖ Chairperson of Technical sessions in National and International Conferences held at various Engineering Colleges.
- ❖ Member of Board of Studies for the Department of Mechanical Sciences, Karunya Institute of Technology and Science, Coimbatore.
- ❖ Expert Member of Mock Accreditation Committee to valuate Mechanical Engineering courses at Kumaraguru College of Technology, Coimbatore.
- ❖ Convenor of Screening and Selection Committee for selecting Ph.D / M.S. (by Research) candidates in the Faculty of Mechanical, Production, Metallurgy and Management Sciences under Anna University held at GCT, Coimbatore.
- ❖ Doctoral Committee Member for Ph.D. candidates in the faculty of Production Engineering, National Institute of Technology, Trichy.
- ❖ Chairman / Member of result passing board at Anna University, Madras University and Bharathiar University.
- ❖ Chairman of Mechanical Engineering board for central valuation, GCT, Coimbatore.
- ❖ Member of question paper setters board of Madras University.
- ❖ Chairman / Chief of Mechanical Engineering board for the central valuation, Bharathiar University and Madras University.
- ❖ Vigilance squad member for Anna University, Coimbatore Zone.
- ❖ Chief Superintendent for conducting TNPCEE at GCT, Coimbatore.
- ❖ President, Mechanical & Production Engineering Association, GCT, Coimbatore.
- ❖ Chairman, Board of study of Mechanical and Production Engineering, GCT, Coimbatore.
- ❖ Placement Officer at GCT, Coimbatore for the Period from 01.10.2001 to 30.09.2003.
- ❖ Chairman, Madras University, M.E. courses central valuation.
- ❖ Chairman, Anna University central valuation at GCT Coimbatore for B.E and M.E courses.
- ❖ National Scientific Advisory Committee Member for conducting National and International Conferences at CIT, KCT and AIT
- ❖ Chief Superintendent for the conduct of Autonomous Examinations, GCT, Coimbatore.
- ❖ Expert Team Member, Ministry of Science and Technology, New Delhi to make on the spot assessment of R&D activities and achievement at M/S Sharp Tools, Coimbatore.
- ❖ Selection Committee Member for selecting staff members for the post of Selection Grade Lecturer in various Engg. Colleges.
- ❖ Coordinator for TamilNadu Engineering Admission-2004 at Govt. College of Technology, Coimbatore.
- ❖ Research Advisory Committee Member, PSG College of Technology.
- ❖ Anna University, Chennai Doctoral Committee Member.
- ❖ Anna University Inspection Committee Member to assess facilities requirements as per the norms for giving recognition to the department to carry out research work to acquire Ph.D Degree.
- ❖ Reviewer of International Journal of Business Process Management and TQM Journal
- ❖ Question paper reviewer for Tamilnadu Public Service Commission, Tamilnadu - conducting written test for the selection of staff members for various Engineering Colleges at entry level

#### **17 Refresher Courses / Workshops / Seminars / Conferences Organized**

- ❖ Design and Manufacture of Machine Tools, 27.12.78 to 12.01.79 at GCT, Coimbatore –13.
- ❖ Modelling and analysis of Structures using ANSYS Software, 20.08.03 to 02.09.03 at Govt. College of Technology, Coimbatore – 13.
- ❖ Educational utilization of standards programme on “Standardization, Product Certification and Quality Management Systems”, July 19-20, 2003, jointly organized by Bureau of Indian Standards, NewDelhi and Govt. College of Technology, Coimbatore.
- ❖ Faculty Development and Training Programme on ANSYS , 26-11-2005 to 02-12-2005 , Jointly organized by ACTIVE , Bangalore and the Department of mechanical Engineering , Govt. College of Technology ,Coimbatore

- ❖ National Seminar on Strategies for world class Manufacturing , April 28-29-2006 , at Mechanical Engineering Department , Govt. College of Technology Sponsored by Technical Education Quality Improvement Programme (TEQIP)
- ❖ National Workshop on Application of ANSYS for Global Product Design , May 20 , at Mechanical Engineering Department , Govt. College of Technology Coimbatore sponsored by TEQIP and ANSYS India , Bangalore

**INTERNATIONAL JOURNALS**

1. Palanisamy K.R., and Arunachalam V.P., **A Simple Method of Walsh Spectra Multiplication**, International Journal of Control Vol No. 39, pp.611- 613, 1984.
2. Palanisamy K.R., and Arunachalam V.P., **Analysis of Time Varying and Nonlinear Networks via Single Term Walsh Series**, International Journal of Electronics, Vol.57, No.2, pp.259-265,1984.
3. Palanisamy K.R., and Arunachalam V.P., **Solution of Variational Problems using Block Pulse Functions**, International Journal of Systems Science, Vol.16, No.2., pp.257-267, 1985.
4. Palanisamy K.R. and Arunachalam V.P., **Analysis of Bilinear Systems via Single Term Walsh Series**, International Journal of Control, Vol.41, No.2, pp.241-257,1985.
5. Palanisamy K.R. and Arunachalam V.P., **Analysis of Smoothing Circuits via Single Term Walsh Series** International Journal of Electronics, Vol.59, No.2, pp. 225-230, 1985.
6. Palanisamy K.R. and Arunachalam V.P **Analysis of vibrating systems via Single Term Walsh Series Approach** International Journal of Systems Science, Vol.18, No.8, pp.1457-1466, 1985.
7. Palanisamy K.R. and Arunachalam V.P., **Generation of Block Pulse Series for Certain Input Functions**, AMSE Periodicals, Advances in Modeling & Simulation, Vol.2, No.4, pp.29-37, 1985.
8. Palanisamy K.R., and Arunachalam V.P., **Solution of Riccati Equation via Single Term Walsh Series Approach**, AMSE Periodicals, Advances in Modelling &Simulation, Vol.3, No.3, pp. 17-28, 1985.
9. Palanisamy K.R., and Arunachalam V.P., **Optimal Control of Linear Systems with Varying Time Delay via Single Term Walsh Series**, AMSE Periodicals, Advances in Modelling & Simulation, Vol.5, No.4, pp.39-55, 1985
10. Palanisamy K.R., and Arunachalam V.P., **Analysis of Neutral System via Single Term Walsh Series**, AMSE Periodicals, Advances in Modelling & Simulation, Vol.5, No.2, pp.27-40, 1986.
11. Palanisamy K.R., and Arunachalam V.P., **Single Term Walsh Series Solution of Second-Order State-Space Formulations - Mechanical Vibratory Systems**, AMSE Periodicals, Advances in Modelling &Simulation, Vol.11, No.2, pp.39-52, 1987.
12. Arunachalam V.P Palanisamy K.R., and Kothandaraman W.G., **Computer Aided Design of Worm and Wheel for Speed Reducers**, AMSE Periodicals, Advances in Modelling, Simulation and Control, Vol.18, No.4, pp.55-64, 1988.
13. Thanushkoti K., Palanisamy S., Palanisamy K.R. and Arunachalam V.P., **Single Term Walsh Series Solution of Second-Order State-Space Systems**, AMSE Periodicals, AMSE Review, Vol.9, No.2, pp.15-22, 1988.
14. Palanisamy K.R, Raghunathan K.G, and Arunachalam.V.P. **Analysis of Time -Varying Sampled Data System via Single-Term Walsh Series**, AMSE Review, AMSE Press, Vol. 19, No.1, pp.15-23, 1991.
15. Rajakumar S., Arunachalam V.P. and Selladurai V., **Work Flow Balancing Strategies in Parallel Machine Scheduling**, International Journal of Advanced Manufacturing Technology, Vol. No. 23, pp.366-374, 2004.

16. Nataraj M., Arunachalam V.P. and Suresh KG., **Optimizing Planer Cam Mechanism in Printing Machine for Quality Improvement using Taguchi Method: Risk Analysis with Concurrent Engineering Approach**, International Journal of Computer Applications in Technology, Vol. 26 , No.3, pp.164-173, 2006.
17. Rajakumar S. and Arunachalam V.P., **Simulation of Workflow Balancing in Assembly Shop Floor Operations**, International Journal of Manufacturing Technology Management ,Vol.16 , No.3 , pp.265 – 281.
18. Nataraj M., Arunachalam V.P. and Ranganathan G., **Risk Analysis to find the near Optimum Combination of Design Parameters using Taguchi's Robust Design method for Quality Improvement and Functional reliability: A Case Study with Concurrent Engineering Approach on an Auto Electrical Part**, Accepted for Publication in International Journal of Advanced Manufacturing Technology.
19. Charles S. and Arunachalam V.P., **Property Analysis and Mathematical Modelling of Machining Parameters of Aluminum Hybrid Composites Fabricated by Powder Metallurgy**, Accepted for Publication in International Journal of Advanced Materials.
20. Amirthagadeswaran K.S. and Arunachalam V.P., **Improved Solutions for Job Shop Scheduling Problems through Genetic Algorithm with a Different Method of Schedule Deduction**, International Journal of Advanced Manufacturing Technology, Vol.28 , pp.532-540.
21. Vijian.P. and Arunachalam V.P., **Experimental Study of Squeeze Casting of Gunmetal**, International Journal of Materials Processing Technology, Vol-170, pp.32-36
22. Vijian.P and Arunachalam.V.P '**Optimization of Squeeze casting process parameters un\sing Taguchi Analysis**', the International Journal of Advanced Manufacturing Technology, Online version published in 19<sup>th</sup> April 2006. (DOI 10.1007/s00170-006-0550-2).
23. Vijian.P and Arunachalam.V.P '**Optimization of Squeeze cast parameters of LM6 aluminium alloy for surface roughness using Taguchi method**', Journal for material Processing Technology, Online version published in 7<sup>th</sup> July 2006. (DOI information 10.1016/j.jmatprotec.2006.05.016).
24. Charles S. and Arunachalam V.P., '**Characterization of properties of cryogenically treated Al-SiC composites fabricated by powder metallurgy**', International Journal of Materials and Manufacturing processes, Vol.21, pp.1-7 , 2006.
25. Rajakumar S., Arunachalam V.P. and Selladurai V., **Work Flow Balancing Strategies in Parallel Machine Scheduling with Precedence Constraints using Genetic Algorithm**', International Journal of Manufacturing Technology Management , Vol. 17 No. 2, pp.239-254, 2006.
26. Rajakumar S., Arunachalam V.P. and Selladurai V., **Work Flow Balancing Strategies in Parallel Machines through Genetic Algorithm**', International Journal of Advanced Manufacturing Technology, DOI 10.1007/s00170-006-0553-z.
27. Gunasekaran.N., Arunachalam V.P., and Vinu Selva Kumar. A ., '**Web Enabled Integration of Voice Customer for Continuous Improvement and Product Development**', International Journal of Services and Operations Management, Vol.2 , No.1, pp. 78-94, 2006.
28. Gunasekaran.N., Arunachalam V.P., and Devadasan.S.R ., '**TISIT : A Model for Integrating TQM with software and Information Technologies**', The TQM Magazine Vol.18 , No.2. pp.118-130, 2006.

29. Nataraj M., Arunachalam V.P. and Ranganathan G., 'Using risk Analysis and Taguchi's method to find the optimal conditions design parameters: A case study ', International Journal of Advanced Manufacturing Technology, Vol. 27, Issue 5-6, pp.445-454, Jan 2006.
30. Nataraj M., Arunachalam V.P., 'Optimizing impeller geometry for performance of centrifugal pump using Taguchi quality concept ', International Journal of Power and Energy: Proceedings of the Institution of Mechanical Engineers (Part A), Vol.220, pp.765-782, 2006.
31. Nataraj M., Arunachalam V.P., 'A Practical approach to optimize the coating parameters to win customer confidence ', under review for journal of Engineering Manufacture: Proceedings of the Institution of Mechanical Engineers (Part B) , 2006
32. Amirthagadeswaran K.S. and Arunachalam V.P., 'Enhancement of Performance of Genetic Algorithm for Job shop scheduling problems through Inversion operator', International Journal of Advanced Manufacturing Technology, Published online in March 2006.

#### NATIONAL JOURNALS

1. Charles S. and Arunachalam V.P., **Effect of Particle Inclusions on the Mechanical Properties of the Composites Fabricated by Liquid Metallurgy**, Indian Journal of Engineering and Materials Sciences Vol-10, Aug-2003, pp.301-304.
2. Charles S and Arunachalam V.P., **Property analysis and Mathematical Modeling of Machining Properties Aluminum Alloy Hybrid (Al –alloy / SiC / flyash) Composites produced by Liquid Metallurgy and Powder Metallurgy Techniques**, Indian Journal of Engineering and Materials Sciences, Vol. 11 December. 2004, pp.473-480.
3. Nataraj M. and Arunachalam V.P., **Modelling and Synthesizing of Drum Cam Mechanism for Printing Machine**, Indian Journal of Manufacturing Technology Today, Vol.3, Issue 8, 2004.
4. Nataraj M., Arunachalam V.P. and N.Dhandapani, **Optimizing Diesel Engine Parameters for Low Emissions Using Taguchi Method: Variation Risk Analysis Approach – Part I**, Indian Journal of Engineering and Materials Sciences, Volume 12 June 2005 pp 169-181.
5. Gunasekaran N. and Arunachalam V.P., 'A Software based- QFD Model for Continuous Improvement', Indian Journal of Industrial Engineering, Vol.XXXIV, No.7, pp 4-10, 2005.
6. Charles S. and Arunachalam V.P., **Property Analysis and Mathematical Modelling of the Machining Properties of Aluminum Hybrid Composites Produced by two Different Methods**, Accepted for Publication in Indian Journal of Engineering and Material Science.
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8. Charles S. and Arunachalam V.P., **Modelling of Machining Parameters of Al – SiC Composites**, Accepted for Publication in the Periyar Journal of Research and Development.
9. Gunasekaran N., Arunachalam V.P., Shanmugaraja M., and Devadasan S.R., '**Improving Quality and Productivity Using Six Sigma Methodology: A Case Study**', (Accepted for Publication in National Productivity Journal).
10. Nataraj M., Arunachalam V.P. and N. Dhandapani, **Optimizing Diesel Engine Parameters for Emission Reduction Using Taguchi Method: Variation Risk Analysis Approach – Part II** ', Indian Journal of Engineering and Materials Sciences, Volume. 12 , Dec 2005 pp.505-514.

11. Amirthagadeswaran K.S. and Arunachalam V.P., '**Optimization of Scheduling in Job shops under cellular manufacturing environment using Genetic Algorithm**', Journal of the Institution of Engineers (India), Vol.86, pp.39-42.
12. P.Vijayan, V.P.Arunachalam and S.Charles , '**Study of surface roughness in squeeze casting LM6 aluminum alloy using Taguchi method**', Indian Journal of Engineering & Material Sciences, Vol.14, February 2007, pp. 7-11
13. N.Muthusamy, V.P.Arunachalam, and B.Balji, '**A Practical approach to optimize the coating parameters to win customer confidence**' Proc. IMechE Vol. 222 Part B:J.Engineering Manufacture, Decemeber 2007

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2. Palanisamy K.R. and Arunachalam V.P, **Analysis of Posicast Control Systems via Single Term Walsh Series**, Seventh IASTED International Symposium on Robotics and Automation, Lugano, Switzerland, June 24-26,1985.
3. Palanisamy K.R. and Arunachalam V.P., **Analysis of Systems with Multiple Time-Varying Delay via Single Term Walsh Series**, International Conference Modelling & Simulation, ISTANBUL (Turkey), June29-July01, 1988.
4. Kothandaraman W.G, Arunachalam.V.P and Bhavani Shankar, **Interdependence of Surface Roughness Parameters in the Assessment of Surface Texture** AMSE International conference on Signals & Systems, Brighton (U.K.), July12-14, 1989.
5. Arunachalam.V.P, Kothandaraman W.G. and Sarukesi K., **Computer Aided Design and Drafting of Warm Gearing for Industrial Drives**, AMSE International conference on Signals & Systems, Brighton (U.K.), July12-14,1989.
6. Charles S. and Arunachalam V.P., **Review on the Friction and Wear Resistance Properties of Metal Matrix Composites**, 3<sup>rd</sup> International Conference on Industrial Tribology, Tata Steel, Jamshedpur, Nov 27-30, 2001.
7. Vijian P, and Arunachalam V.P., **Experimental Study and Analysis of Squeeze Casting of Gunmetal**, Proceedings of International Conference on Digital Aided Modelling and Simulation (DAMS-2003), CIT, Coimbatore, Abstract pp.47, Jan 5-7, 2003.
8. Amirthagadeswaran K.S. and Arunachalam V.P., **Design of Cellular Manufacturing Systems using Fuzzy Logic Techniques**, Proceedings of International Conference on Digital Aided Modelling and Simulation (DAMS-2003), CIT, Coimbatore-14, pp.4, Jan 6-8, 2003.
9. Vinu Selva Kumar A., Gunasekaran N. and Arunachalam V.P., **A Web Enabled Model for Integration of Voice of Customer with Product Supply Chain**, Proceedings of VII Annual International Conference on the Society of Operations Management, Indian Institute of Management, Indore, Dec 19-21, 2003.
10. Gunasekaran N., Arunachalam V.P and Mani T.P., **Confluence of Software and Information Technology with Total Quality Management**, Proceedings of International Conference on Responsive Supply Chain Management and Organizational Competitiveness (RSC –2004), CIT, Coimbatore and University of Massachusetts, USA, Jan 5-7, 2004.

11. Amirthagadeswaran K.S. and Arunachalam V.P., **Performance Improvement of Genetic Algorithm using Edge Recombination operator for Job Shop Scheduling Problems**, Proceedings of International Conference on Responsive Supply Chain and Organizational Competitiveness (RSC-2004), CIT, Coimbatore, Jan 5-7, 2004.
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17. Gunasekaran.N., Arunachalam.V.P., and Arunachalam.S., **A Framework for Implementing TISIT Model to Integrate TQM with Software and Information Technologies**, Proceedings of SCMS 2006, Taichung, Taiwan .
18. Rajkumar S., Arunachalam V.P. and Selladurai V., **‘Performance measurement in parallel Machine Scheduling’**, Proceedings of International Conference on Digital Aided Modeling and Simulation (An evolutionary approach for optimization), Paper No.111, 2006.
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Instrumentation and Digital Communication systems, Regional Engineering College, Warangal, India, pp.5.01-5.11, August 13-14, 1984.

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3. Kothandaraman W.G., Arunachalam V.P and Bhavani Shankar, **A New Method for the Evaluation of Grinding Wheel Performance**, Proceedings of the 13<sup>th</sup> All India Machine Tool Design and Research Conference, Jadavpur University, Calcutta, pp.C16-20, Nov 1988.
4. Palanisamy K.R. and Arunachalam V.P., **Analysis of Multirate Sampled Data Systems via Single Term Walsh Series**, Proceedings of 12<sup>th</sup> National Systems Conference, PSG College of Technology, pp.47-50, 1988.
5. Palanisamy K.R., and Arunachalam V.P., **Analysis of Microprocessor Controlled Print Wheel Control System via Single Term Walsh Series**, Proceedings of 12<sup>th</sup> National Systems Conference, PSG College of Technology, pp.51-54, 1988.
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**Signature**