PROFILE

1. Name **:** G. RANGA JANARDHANA

2. Designation **:** Professor

3. Department **:** Mechanical Engineering

4. Date of Birth **:** 23rd June 1964

5. Date of Joining in JNTU service **:** 02-11-1992

6. Residential Address **:** Plot No.:148, Sasikanth Nagar, Near RTO,
Kakinada-533 005, AP, India

7. Phone No. **:** Mobile: +91-94401 51031, Res: +91-94913 87231, Off:

8. E-main id **:** ranga.janardhana@gmail.com

9. Blood Group **:** O+

10. Educational Qualifications **:**
B.Tech. (Mech Engg) - 1983-1987
M.E. (Production Engg) – 1989-1991
Ph.D. (Mechanical Engg) – 1998-2001
Post Doc. (Production Engg) – 2007-2008

11. Experience **:**

a) Teaching **:**

Since April 2006	:Professor, JNTUCE Kakinada
November 2001- April 2006	:Associate Professor, JNTU Hyderabad
November 1992 - October 2001	:Assistant Professor, JNTUCE Anantapur
March 1988- July 1989	:Teaching Assistant, JNTUCE Anantapur

b) R & D **:**

March 2007 - February 2008 : Post Doctoral Program, Hoseo University, Republic of Korea (South Korea)

c) Industrial **:**

February 1991 - October 1992 : Chief Train Examiner, Southern Railways, Chennai (Madras), India

12. Field of Specialization : Manufacturing Engineering

13. Subjects of interest (teaching):

Intelligent Manufacturing Systems
Automation in Manufacturing
Nano Technology (Nano-Materials, Coatings and Machining)
Mechatronics
Micro Electro Mechanical Systems (MEMS)
CAD/CAM
Modern Machining Methods
Production Technology
Metrology and Machine Tools
Operations Research
Production Planning and Control
Industrial Engineering
Robotics

14. No. of Scholars :

a) Awarded with Ph.D. : 4
b) Working for Ph.D. : 13

15. No. of M.Tech Project guided : 14

16. Awards received : Certificate and Cash Prize for First Rank in II BTech (Mechanical Engineering)

17. Titles of books authored : -

18. Membership of professional bodies :

- **Fellow** of Indian Institute of Production Engineers (FIIPE), Bangalore.
- **Member** of Indian Institute of Foundry-men (MIIF), Kolkata.
- **Life Member** of Indian Society for Technical Education, New Delhi.

19. Member curriculum development (BOS) :

- 2004, 2005 - BOS Member, Mechanical Engineering Branch (Both Under Graduate and Post Graduate courses offered in all the affiliated

colleges), Jawaharlal Nehru Technological University, Hyderabad, India.

- 2002 to 2005 - BOS Member, M.Tech. (Mechanical Engineering Branch) "Advanced Manufacturing Systems" specialization Course offered at the College of Engineering, an Autonomous college of Jawaharlal Nehru Technological University, Hyderabad, India.

20. Any other distinctions :

- **Stood FIRST** in 4 year B.Tech Course
- **Chair-Person** in 2 Conferences
- **Reviewer for Peer Journal*:*** Reviewed few research papers of International Journals.
- **Expert member** to finalize and approve the Pre PhD syllabi in the field of Industrial Engineering and Mechanical Engineering for the academic years 2003, 2004 and 2005 in Jawaharlal Nehru Technological University, Hyderabad, India.
- **Officer-in-charge of Academic Section**, JNT University College Engineering, Anantapur for 5 years(1996-2001)
- **Convener** for Mechanical Engineering Students' Association, JNT University College Engineering, Anantapur for 3 years (1993-1995)
- **Coordinator** for Placement and Training Cell, JNT University College Engineering, Anantapur for 2 years (1994-1995)
- **Additional Controller of Examinations**, Jawaharlal Nehru Technological University, Hyderabad for 5 years (2001-2006)
- **Vice-President** for Jawaharlal Nehru Technological University Main Campus Teachers' Association in the year 2005
- **President** for Jawaharlal Nehru Technological University Main Campus Teachers' Association in the year 2006.
- As a **member** in Two-Member Committee, visited MICO-BOSCH Company in Bangalore City situated in South India on 18th and 19th January, 2006 to identify the needed technology to establish some programs and to take up research activities in collaboration with the company.
- **Financial support** from APCOST (Andhra Pradesh State Council of Science & Technology), Government of Andhra Pradesh, Hyderabad, India was provided for B.Tech. Students' Project Work (under my guidance) titled 'Analysis of Machine Idle Time in Various Industries in

Anantapur District' in the year 1993.

- Actively participated as ***member*** and discharged the duties of ***treasurer*** in the years 2000 and 2001 in **NSS – Netha Samkshema Sangham**, which is a registered welfare association formed by the professionals and officials of Anantapur District, Andhra Pradesh

21. No. of Conferences/Workshops organized as Coordinator/Chairman: 3

22. Publications :

I. Journals

a. ***National*** ***:*** 20

b. ***International*** ***:*** 8

II. Conferences

a. ***National*** ***:*** 29

b. ***International*** ***:*** 17

23. Course/Conferences attended

a. ***Refresher courses*** ***:*** 7

b. ***Orientation courses*** ***:*** 1

c. ***Conferences*** ***:*** 8

24. R & D Projects :

Coordinator for the following two AICTE Projects:

- Modernization of Workshops under MODROB (Modernization of Labs) – worth of the project is Rs. 7.5 lakhs (Rupees 7, 50, 000).
- CAD/CAM Center under TAPTEC (Thrust Areas) worth Rs.12 lakhs (Rupees 12, 00, 000).

25. Countries visited on academic activity ***:*** Republic of Korea (South Korea)
Worked as Exchange Professor in Hoseo University, Asan City, Republic of Korea during March 2007 to February 2008.

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Item 21:

Coordinator for the following THREE Refresher Courses sponsored by UGC and conducted at Academic Staff College, Jawaharlal Nehru Technological University, Hyderabad.

Advanced Production Systems	- 2002-2003
Advanced Operations Management and Techniques	- 2003-2004
Intelligent Manufacturing Systems	- 2004-2005

Item 22:- I.a.

NATIONAL JOURNALS:

1 MV Sathish Kumar, CSP Rao, **G Ranga Janardhana**, "Simultaneous Scheduling of Machines and Material Handling System in a Flexible Manufacturing Environment using Differential Evolution Approach", accepted for publication in **IJOM - ICFAI Journal of Operations Management**, Vol.VII, No.3, August, 2008, pp.46-63.

2 K Srinivasulu Reddy, **G Ranga Janardhana**, D Hanumantha Rao, "Neuro-Fuzzy technique to predict the properties of aluminum-silicon eutectic alloy subjected to modification and vibration during solidification", **FOUNDRY Journal**, Vol.XX, No.4, July/August 2008.

3 K. Srinivasulu Reddy, **G Ranga Janardhana**, Kim S Kun, "CANFIS model to predict the properties of aluminum silicon eutectic alloy – Modified and vibrated during solidification", ***Manufacturing Technology Today***, CMTI Publication, Vol.7, No.7, July, 2008, pp.17-23.

4 Y.P.Reddy, **G. Ranga Janardhana** and Kim S Kun, "Performance Evaluation of a Multi Product Production System Using Timed Event Graph and Max- Plus Algebra", ***Journal of Manufacturing Engineering***, Vol.3, Issue 2, June, 2008

5 P Nanda Kumar, **G Ranga Janardhana**, Kim S Kun, "Prediction of high accuracy surface roughness in turning process through ANN approach", ***i-manager's Journal on Future Engineering & Technology*** Vol.3, No.2 November 2007-January 2008, pp.7-15.

6 D Hanumantha Rao, GRN Tagore, **G Ranga Janardhana**, Kim S Kun, "Development of optimized ANN model through Genetic Algorithm to predict the microstructural parameters of aluminum alloy castings", ***i-manager's Journal on Future Engineering & Technology*** Vol.3, No.2 November 2007-January 2008, pp.55-61.

7 YP Reddy, **G Ranga Janardhana**, "Modeling and performance evaluation of a multi product production system using timed Petri nets and max- plus algebra", Accepted for publication in ***i-manager's Journal on Engineering & Technology***

8 P. Nanda Kumar, **G Ranga Janardhana**, "Development of Empirical Model for Prediction of surface Roughness in CNC End Milling", i-manager's ***Journal on Future Engineering & Technology***, August-October, 2007, pp.65-70

9 K. Meera Saheb G. Venkateswara Rao & **G. Ranga Janardhana**, "Free Vibration Analysis of Timoshenko Beams using coupled Displacement Field Method", ***Journal of structural Engineering,*** Vol.34, No.3, August-September, 2007, pp.233-236.

10 K. Srinivasulu Reddy, **G Ranga Janardhana**, "Study on Porosity, Fluidity and Fatigue Strength in Aluminum-Silicon Eutectic Alloy Modified and Vibrated during Solidification", ***FOUNDRY Journal***, March/April 2007.

11 YP Reddy, **G Ranga Janardhana**, "Modeling a robotic assembly cell with timed Petri nets and in Max-Plus algebra", ***i-manager's Journal on Engineering & Technology***, Vol.2, No.2, Nov.06-Jan. 2007, pp.63-69.

12 K. Meera Saheb, G. Venkateswara Rao & **G. Ranga Janardhana**, "Coupled Displacement Field formulation for the Buckling analysis of shear flexible columns", ***Journal of Structural Engineering,*** Vol.33, No.5, December 2006-

January 2007, pp.413-418.

13 D Hanumantha Rao, GRN Tagore, **G Ranga Janardhana, "**Determination of Optimum Casting Process Parameters in Product Development through Solidification Simulations", ***Journal of Machine Tool Technology***, November. 2006.

14 D Hanumantha Rao, GRN Tagore, **G Ranga Janardhana,** "Solidification Simulation Coupled with Neural Networks for Prediction of Secondary Dendrite Arm Spacing in Sand Castings", ***i-manager's Journal on Engineering and Technology***, Vol 2 No.1, August/October, 2006, pp 42-49

15 D Hanumantha Rao, GRN Tagore, **G Ranga Janardhana**, "Process Simulation of 'Aluminum Alloy Casting Solidification for Controlled Porosity and Cooling Rate" ***Indian Foundry Journal*** Vol 52, No 5, May 2006, pp 26-34

16 P. Nanda Kumar, **G Ranga Janardhana**, "Prediction of Surface Roughness in Milling by Using Multiple Regression", ***i-manager's Journal on Engineering and Technology,*** Vol.1, No.3, February 2006-April 2006, pp.69-74.

17 G Janardhana Raju, D Ravikanth, C Subba Rao, **G Ranga Janardhana**, "A Case Study on Maintenance Executive Information System in a Thermal Power Plant", ***Industrial Engineering Journal***, vol. XXXV, No.1, January, 2006, pp.16-20.

18 K. Srinivasulu Reddy, **G Ranga Janardhana**, "Properties of Aluminum-Silicon Eutectic Alloy Subjected to Modification and Vibration During Solidification" **–** ***Indian Foundry Journal,*** vol. 51, No.10, October, 2005, pp.23-30.

19 G Sankaraiah, **G Ranga Janardhana**, BDattatreya Sarma, 'Failure Data Analysis", Engineerig Today, July 2004, pp.15-16

Item 22:- I.b.

INTERNATIONAL JOURNALS:

1 YP Reddy, **G Ranga Janardhana**, Kim S Kun, "Modular modeling and performance evaluation of manufacturing systems using Max-Plus Algebra", Accepted for publication in ***Int. J. Industrial and Systems Engineering***, Inderscience Publications.

2 G Krishna Mohana Rao, **G Ranga Janardhana**, D Hanumantha Rao, M Srinivasa Rao, "Development of Hybrid Model and Optimization of Metal Removal Rate in Electric Discharge Machining using Artificial Neural Networks and Genetic Algorithm", ARPN Journal of Engineering and Applied Sciences, Vol 3, No.1, February, 2008, pp.19-30.

3 G. Venkateswara Rao, K. Meera Saheb, **G. Ranga Janardhana**, "Simple formula to Study the large Amplitude free Vibrations of Beams & Plates", ***Journal of Applied Mechanics (ASME),*** Vol.75, Issue 1, January, 2008. pp.14505-08.

4 G. Venkateswara Rao, K. Meera Saheb & **G. Ranga Janardhana**, "Large

Amplitude Free Vibrations of Uniform Timoshenko Beams-A Novel Formulation", ***American Institute of Aeronautics and Astronautics Journal***, Vol. 45, No.11, November, 2007, pp.2810-2812.

5 D. Hanumantha Rao, G.R.N. Tagore, **G Ranga Janardhana**, "Estimation of Porosity in Aluminum Alloy Casting Through Solidification Simulations and Artificial Neural Networks", ***Manufacturing Technology & Research – an International Journal,*** Jan-June, 2007, vol.3, No.1&2, pp.79-85.

6 Eswar Prasad K, Krishna R, **Ranga Janardhana G**, Raju A and Nahavandi S, "Experimental Investigation and Finite Element Analysis for the Study of Residual Stresses in Roller Burnished Components", ***International Journal of Applied Engineering Research,*** Vol 1, No 3, 2006, pp. 427-436.

7 G. Venkateswara Rao, K. Meera Saheb, **G. Ranga Janardhana**, "Fundamental Frequency for large amplitude vibrations of uniform Timoshenko beams with central point concentrated mass using coupled displacement field method", ***Journal of Sound and Vibrations (Elsevier – Science Direct)***, Vol.298, No.1-2, 2006, pp.221-232.

8 G. Venkateswara Rao, K. Meera Saheb, **G. Ranga Janardhana**, "Concept of Coupled Displacement Filed for Large Amplitude Free Vibrations of Shear Flexible Beams"***, Journal of Vibration and Acoustics (ASME),*** April, 2006, Vol.128, Issue 2, pp.251-255.

Item 22:- II.a.

NATIONAL CONFERENCES:

1 **G Ranga Janardhana**, P Nanda Kumar, Kim S Kun, "Surface Roughness Prediction in Milling Using Artificial Neural Networks", ***National Conference on Advances in Mechanical Engineering NCAME-2008***, PVPS Institute of Technology, Vijayawada, 11-12 January, 2008.

2 M V Satish Kumar, **G Ranga Janardhana** and CSP Rao, "Application of Differential Evolution Algorithms for Simultaneous Scheduling Problems – A Case Study" 23rd National Convention of Mechanical Engineers and National Seminar on Emerging Trends In Manufacturing Systems And Technologies, Institution of Engineers, Hyderabad, September 10-12, 2007, 619-623.

3 YP Reddy, **G Ranga Janardhana**, "Modeling and performance evaluation of a serial production system using timed event graphs and Max-Plus algebra", ***National Conference on Factory Automation, Robotics and Soft Computing (FARSC),*** National Institute of Technology (NIT), Warangal, Andhra Pradesh, pp.201-206, 18 – 19th Jan. 2007.

4 Y.P.Reddy, **G Ranga Janardhana**, 'Modeling, synthesis and performance evaluation of production systems using modular t-timed Petri nets', ***Proc. of Intl. Conference on Advances in Mechanical Engineering (AME 2006)***, BBSB Engg. College, Fatehgarh Sahib, Punjab, India, pp.121-126, 1-3 Dec. 2006.

5 G. Venkateswara Rao, RK Gupta & **G. Ranga Janardhana,** "Relatively Simple FE Formulation for the large amplitude free vibrations of uniform slender isotropic beams", ***National Conference on Recent Advances in Computer Aided Engineerting,*** RACE'06 held during March 3-4, 2006

6 K.Eshwara Prasad, P. Valan Arasu, **G. Ranga Janardhana**, Dr. S. Venkatesh and S. Satyanarayana, "Analysis of Contact Elastic-Plastic Strains during the Process of Burnishing", ***National Conference on Design for Product Life Cycle,*** DPCL-2006, BITS, Pilani, February, 17-18, 2006.

7 Y Prasannatha Reddy, **G Ranga Janardhana**, "Analysis of Manufacturing Systems Using Timed Petri Nets", ***National Conference on Advances in CAD/CAM***, organized by the Department of Mechanical Engineering, JNTU College of Engineering (Autonomous), Kakinada, February, 27 – 28, 2006, pp. 153 – 157

8 P Nanda Kumar, **G Ranga Janardhana**, K Prahlada Rao, "Prediction of cutting force for given cutting conditions using multiple regression method", ***National Conference on Computer Applications in Mechanical Engineering – CAME-2005***, organized by the Department of Mechanical Engineering, JNTU College of Engineering, Anantapur, December, 21, 2005, pp.210-215.

9 G Janardhana Raju, CS Rao, **G Ranga Janardhana**, "A study on management information system for selective inventory control in a cement manufacturing unit", ***National Conference on Computer Applications in Mechanical Engineering – CAME-2005***, organized by the Department of Mechanical Engineering, JNTU College of Engineering, Anantapur, December, 21, 2005, pp.196-201.

10 K. Meera Saheb, G. Venkateswara Rao & **G. Ranga Janardhana, "**Evaluation of Large Amplitude Free Vibration Behavior Through Coupled Displacement Field", ***National Conference on Technological Advancements in Mechanical Engineering***, organized by the Department of Mechanical Engineering, Sreenidhi Institute of Science and Technology, Hyderabad, December, 2-3, 2005, pp. 242-247

11 G. Venkateswara Rao, K. Meera Saheb & **G. Ranga Janardhana,** 'Evaluation of Non-linear Static Response through large amplitude free vibration behavior of uniform beams', ***National Conference on Advances in Mechanical Engineering***, organized by the Department of Mechanical Engineering, Vasavi College of Engineering, Hyderabad, May, 13 - 14, 2005, pp. D69 – D72.

12 B Karuna Kumar, K Prahlada Rao, **G Ranga Janardhana**, "Selective Laser Sintering and Stereo Lithography – Different Technologies for Different Applications", ***National Conference on State of the Art of Technologies in Mechanical Engineering (NCSAME-2004),*** organized by the Department of Mechanical Engineering, JNTU College of Engineering (Autonomous), Hyderabad, on June, 29 - 30, 2004, pp. 151 – 160.

13 L Siva Rama Krishna, **G Ranga Janardhana**, CSP Rao, "Development of Web Based Integrated Material Planning and Machine Scheduling", ***National Conference on Advanced Materials and Manufacturing Techniques (AMMT 2004)***, organized by the Department of Mechanical Engineering, JNTU College of Engineering (Autonomous), Hyderabad, March, 8 -9, 2004, pp. 243 – 247.

14 G Sankaraiah, **G Ranga Janardhana**, BDattatreya Sarma, "Failure Data Analysis", National Conference on Emerging Trends in Engineering, Technology and Management, Adhyiyamman College of Engineering, Hosur, TN, September 8-9, 2003.

15 P Nanda Kumar, **G Ranga Janardhana, "**Prediction of Tool Life for given cutting conditions using multiple regression method', ***National Conference on Advanced Trends in Mechanical Engineering – Research and Development –***

MINAC-2002, organized by the Department of Mechanical Engineering, JNTU College of Engineering, Anantapur, December, 21, 2002, pp.117-124.

16 **G Ranga Janardhana,** H Sudarshana Rao, R Kotaiah, P Dananjaya Rao, "Production of Sound Aluminum-Copper Alloy Casting using ANN Model', ***National Seminar on Recent Advances in Automation in Manufacturing***, organized by the Institution of engineers (I), Managalore, held at NMAM Institute of Technology, Nitte, February, 16, 2002

17 **G Ranga Janardhana,** H Sudarshana Rao, R Kotaiah, P Dananjaya Rao, "Neural Network Technique for Predicting the Quality of Aluminum-Silicon Alloy Casting", ***89th Indian Science Congress,*** held at Lucknow, January, 3-7, 2002.

18 **G Ranga Janardhana,** H Sudarshana Rao, R Kotaiah, P Dananjaya Rao, "ANN model for predicting soundness of aluminum alloy casting', ***25th National Systems Conference on Systems Engineering Approach to Sustained Growth,*** held at PSG College of Technology, Coimbatore, December, 13-15, 2001, pp. 95-99.

19 **G Ranga Janardhana,** K Prahlada Rao, H Sudarshana Rao, R Kotaiah, P Dananjaya Rao "Neural Networks for Improvement of the Quality of Aluminum Alloy Castings", ***XVI National Conference on Engineering and Seminar on Future Trends in Mechanical Engineering, Research and Development,*** held at University of Roorkee, Roorkee, September, 29-30, 2000, pp. 366-369

20 **G Ranga Janardhana,** H Sudarshana Rao, R Kotaiah, P Dananjaya Rao, "Development of an Artificial Neural Network Model for predicting the properties of Aluminum alloy castings", ***National Seminar on Software Development in Mechanical Engineering (MECHSOFT 98),*** held at Dayananda Sagar College of Engineering, Bangalore, December, 30-31, 1998, pp. 9 (souvenir).

21 K Prahlada Rao, B Anjaneya Prasad, **G Ranga Janardhana,** P Dananjaya Rao, R Kotaiah, , "DSEL: An Intelligent Data Base System for Selection of Die Materials", ***National Seminar on Software Development in Mechanical Engineering (MECHSOFT 98),*** held at Dayananda Sagar College of Engineering, Bangalore, December, 30-31,1998, pp. 8(souvenir).

22 K Prahlada Rao, **G Ranga Janardhana,** R Kotaiah, B Anjaneya Prasad, "CASTOLEX : An Expert System for Tolerance Specification of Metal Castings", ***National Conference on Fuzzy Technique Applications in Manufacturing and Engineering (FTAME 98),*** AU College of Engineering, Vishakhapatnam, March, 20-22, 1998, pp. 37-42.

23 K Prahlada Rao, **G Ranga Janardhana,** R Kotaiah, B Anjaneya Prasad, "Evaluation of Manufacturability Using Fuzzy Logic", ***National Conference on Fuzzy Technique Applications in Manufacturing and Engineering (FTAME 98),*** AU College of Engineering, Vishakhapatnam, March, 20-22, 1998, pp. 108-112.

24 K Prahlada Rao, **G Ranga Janardhana**, G Venkata Subbarao, RNVSS Anil Kumar, "Diagnosis of Bearing Failures : An Analysis through expert systems", ***All India Seminar on condition monitoring and diagnostics of Mechanical Systems,*** Institution of Engineers (India), Lucknow, March, 6-7, 1998, pp. 66-73.

25 **G Ranga Janardhana,** K Prahlada Rao, P Dananjaya Rao, R Kotaiah "Multiple Cooperating Knowledge Sources for Steel Castings", ***National***

conference on Intelligent Manufacturing Systems – A Technology Watch, held at Coimbatore Institute of Technology, Coimbatore, February, 6-7, 1998, pp. S4 (souvenir).

26 R Sivakumar Reddy, **G Ranga Janardhana**, "Useful tool for Fortran users – A TXR", ***IX ISME Conference on Mechanical Engineering,*** held at University of Roorkee, Roorkee, November, 10-11, 1994, pp. 445-447

27 **G Ranga Janardhana**, R Sivakumar Reddy, P Aravindan, "Computerized Project Planning and Control Systems", ***2nd National Conference on CAD/CAM,*** PSG College of Technology, Coimbatore, August, 19-20, 1994, pp. H3.1 – H3.5.

Item 22:- II.b.

INTERNATIONAL CONFERENCES:

1 Ch.V.S.H.S.R. Sastry, **G. Ranga Janardhana**, Kim S. Kun, "Manufacturability of Al-Pb alloys by powder metallurgy for bearing applications", ***International Conference on Powder Metallurgy*** conducted by Powder Metallurgy Association of India at Chennai, 20-21 February, 2008.

2 **G Ranga Janardhana**, P Nanda Kumar, Kim S Kun, "Artificial Neural Network Model For Prediction of Surface Roughness in Turning", ***International Conference on Frontiers in Design & Manufacturing Engineering ICDM-08***, Karuny University, Coimbatore, India, 1-2 February, 2008.

3 K. Meera Saheb, G. Venkateswara Rao & **G. Ranga Janardhana**, "Evaluation

of large amplitude free vibration behavior of uniform Timoshenko beams using coupled displacement field method", ***International Conference on Vibration Engineering & Technology Machinery***, OU College of Engg & BHEL, Hyderabad, India, 17-19 December, 2007

4 L Siva Rama Krishna, V Uma Maheshwar, V Nageswara Rao, **G Ranga Janardhana,** C S P Rao, "Web based on-line Condition Monitoring Systems" ***International Conference on Vibration Engineering & Technology Machinery***, OU College of Engg & BHEL, Hyderabad, India, 17-19 December, 2007.

5 YP Reddy, **G Ranga Janardhana**, Kim S Kun, "Modeling and Performance Evaluation of Modular Manufacturing Systems Using Timed Petri Nets Coupled With Max-Plus Algebra", ***International Conference on Advanced Manufacturing Technologies – ICAMT 2007***, Central Mechanical Engineering Research Institute, Durgapur, India, 29-20 November, 2007, pp.14-23.

6 **G Ranga Janardhana**, G Krishnamohan Rao, Rafiq Ahmad, Kim S Kun, "Characterization of electric discharge machined surface of Ti6Al4V", I***nternational Symposium on Advanced Materials and Processing ISAMP-2007***, Basaveshwar Engineering college, Bagalkot, India, 29-30 October, 2007

7 K Srinivasulu Reddy, **G Ranga Janardhana**, Kim S Kun, "ANN Model to Predict the Properties of Aluminum Silicon Eutectic Alloy Subjected to Modification and Vibration During Solidification", ***International Conference on Total Engineering, Analysis & Manufacturing Technologies – TEAM TECH 2007***, Indian Institute of Science (IISc), Bangalore, India, 4-6 October, 2007.

8 YP Reddy, **G Ranga Janardhana**, Kim S Kun, 'Modeling and scheduling of real time production systems using Max-Plus algebra', ***Proc. of Intl. Conf. on Production and Industrial Engineering*** (CPIE-2007), Dr. B. R. Ambedkar National Institute of Technology (NIT), Jalandhar, Punjab, India, pp.85-91, 22 – 24 March, 2007.

9 YP Reddy, **G Ranga Janardhana**, "Modeling, synthesis and performance evaluation of production systems using modular t-timed Petri nets", ***Proc. of Intl. Conference on Advances in Mechanical Engineering (AME 2006)***, BBSB Engg. College, Fatehgarh Sahib, Punjab, India, pp.121-126, 1-3 Dec. 2006.

10 L Siva Rama Krishna, **G Ranga Janardhana**, CSP Rao, "Development of an Integrated Material Planning and Machine Scheduling Systems for a Multi Product Manufacturing Systems", 22nd ***International Conference on CAD/CAM Robotics and Factories of the Future*** held at VIT, Vellore, India, during 19-22 July 2006, pp 868-875

11 MT Naik, **G Ranga Janardhana**, A Latha, G Srinivasa Rao, "Performance Improvement and Energy Conservation of Combined Cycle Power Plant – A Case Study", Two days ***International Workshop on Challenges and Strategies for Sustainable Energy, Efficiency and Environment,*** UP Technical University, IET Campus, Sitapur Road, Lucknow, India, June 10-11, 2006, 80-87.

12 Sankaraiah .G, **Ranga Janardhana. G**, Dattatraya Sarma .B & Uma Shankar, "An Integrated Reliability Redundant System with Cost Constraint", ***International Conference on Operations Research Applications in Infrastructure Development*** in conjuction with the 2005 Annual Convention of Operations Research Society of India, IISc, Bangalore, December 27-29, 2005.

13 K. Meera Saheb, G. Venkateswara Rao & **G. Ranga Janardhana,** "Use of

Coupled Displacement Field to Evaluate Large Amplitude Free Vibrations Behavior of Shear Flexible Beams", ***International Conference on Advances in Structural Dynamics and Its Applications***, organized by GITAM, Visakhapatnam, December, 7-9, 2005. pp. 174-184

14 G Sankaraiah, **G Ranga Janardhana,** B Dattatraya Sarma, C Uma Shankar . C, "Optimum Behavior of Integrated Reliability Redundant System", ***International Conference on Recent Developments in Statistics and their Applications***, organized by the Department of Statistics, SV University, Tirupati, January, 3-4, 2005.

15 G Janardhana Raju, CS Rao, **G Ranga Janardhana**, D Ravikanth, "Design and Development of Decision Support Sysytems for Material Management Department in a Basic supply Chain Oriented Environment – A Case Study in a Spinning Mill", ***Second International Conference on Logistics Supply Chain Management***, held at PSG College of Technology, Coimbatore, August, 3-5, 2004, pp.85-90.

16 **G Ranga Janardhana**, K Prahlada Rao, H Sudarshana Rao, R Kotaiah, P Dananjaya Rao, "Improvement of the quality of castings – A study on an aluminum alloys using ANN approach", ***International conference on Intelligent Flexible Autonomous Manufacturing Systems (IFAMS 2000),*** held at Coimbatore Institute of Technology, Coimbatore, January, 10-12, 2000, pp. 660-664.

17 **G Ranga Janardhana**, R Sivakumar Reddy, "Password Protection for PC's with MS DOS", ***International conference on Stochastic, Optimization and Computer Applications (ICSOC)*** held at PSG College of Technology, Coimbatore, December, 12-14, 1994, pp. CA20 (Souvenir).