PROFILE

A) GENERAL INFORMATION

a) Name	:	**Dr. M. HEMAMALINI**
a) Date of Birth	:	08.07.1976
b) Address for Communication		
Official Address	:	Department of Computer Science, A.V.C College (Autonomous), Mannampandal, Mayiladuthurai- 609305
Residential	:	No. 39, Chinna Kannara Street, Mayiladuthurai - 609 001 Nagapattinam District, Tamil Nadu.
d) Designation	:	Assistant Professor
e) Contact Number	:	Land Line : 04364 241451
		Mobile : 9442389661
f) Area of Specialization	:	Grid Computing
g) Date of Appointment	:	12th October, 2013
h) Mail ID	:	maliniavcce@gmail.com

B) ACADEMIC QUALIFICATIONS

Degree	College/university	Year of passing	Class
B.Sc., (Physics)	Seethalakshmi Ramaswami College, Bharathidasan University, Triruchirappalli	1996	First Class
M.C.A,	A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai, Bharathidasan University, Triruchirappalli	1999	First Class
M.Phil., (Computer Science)	Bharathidasan University, Triruchirappalli	2005	First Class With Distinction
Ph.D. (Computer Science)	STET Women's College, Sundarakkottai, Bharathidasan University, Triruchirappalli	2018	Commended
State Level Eligibility Test (SET)	Bharathiar University , Coimbatore	2012	-

C) RESEARCH EXPERIENCE AND TRAINING

Research Stage	Title of Work/ Thesis	University where the work was carried out
M.C.A.	SHARE PLUS (National Securities Depository Limited)	A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai, Bharathidasan University, Triruchirappalli
M. Phil., (Computer Science)	Minimum Comparison Sorting Using Method Of Wells	A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai, Bharathidasan University, Triruchirappalli
Ph. D. (Computer Science)	Task scheduling Algorithms to improve Resource Utilization in Grid Computing Environment	STET Women's College, Sundarakkottai,Mannargudi, Bharathidasan University, Triruchirappalli
Research Guidance	M.C.A. : Awarded = 20; M.Phil.: Awarded = 06; Guiding = 3	

D) DETAILS OF PUBLISHED WORK

S. No.	Type of Publication	Number	
		International	**National**
a	**Research Papers** Papers in Journals Papers in Conference Proceedings	10 02	01 -
b	Abstract of papers presented in Conferences/seminar	-	07

a) *Research Papers Published*

Papers in Refereed Journals

International level

1. Brindha, R. and **Hemamalini, M.** 2017. Lossless Reversible data hiding in Encrypted images with public key cryptography: A Review. *International Journal of Computer Science and Mobile Applications* 5(9): 32-38. ISSN: 2321-8363 Impact Factor: 4.123.
2. **Hemamalini, M**. and M.V.Srinath. 2016. An Outlook on Applications of Big Data Analytics in Health Care System. *Scientific Transactions in Environment and technovation* 9(3): 166-168.

3. **Hemamalini, M**. And M.V.Srinath. 2016. Response Time Minimization task scheduling Algorithms. *International Journal of Computer Applications* 145(1): 9-14. ISSN: 0975-8887,Impact factor: 3.12.

4. Meena, G. and **Hemamalini, M**. 2016. A Secure Mobile Banking scheme based on cryptography: A Review. *International journal of Commerce, Management and Computer Application.* 2(3):29-32. ISSN:2395-2091.

5. Nahomiyal, A. and **Hemamalini, M**. 2016. Firewalls and their roles in computer network security. *International journal of Commerce, Management and Computer Application.* 2(3):25-28. ISSN:2395-2091.

6. Rubavathi, V. and **Hemamalini, M**. and 2016. Review on Routing Protocols for vehicular ad hoc network. *International journal of Commerce, Management and Computer Application.* 2(3):16-18. ISSN:2395-2091.

7. **Hemamalini, M**. and M.V.Srinath. 2015. Memory Constrained Load Shared Minimum Execution Time Grid Task Scheduling Algorithm in a Heterogeneous Environment. *Indian Journal of Science and Technology.* 8(15). ISSN 0974-5645.

8. **Hemamalini, M**. and M.V.Srinath. State Of The Art: Task Scheduling Algorithms In A Heterogeneous Grid Computing Environment. *Elysium Journal of Engineering Research and Management.* 1(1). ISSN : 2347-4734

9. **Hemamalini, M.** 2012. Review on Grid Task Scheduling in Heterogeneous Distributed Environment. *International Journal of Computer Applications.* 40(2): 24-30. ISSN 0975 -8887.

10. Nagarathinam, A. and **Hemamalini, M.** 2009. A Personalized Web Search for improving retrieval effectiveness using re-ranking. *The Technology World.* 5(1): 246-248. ISSN 2180 -1614.

National level

1. Nagarathinam, A. and **Hemamalini, M.** 2011. Impact of Green Computing On Environmental Sustainability. *Lab Experiments. (A Journal of Laboratory Experiments)* 11(1): 331-334. ISSN: 0972-6055.

b) *Symposia Papers Presented and Abstracts Published*
   International level

1. **Hemamalini, M**. and M.V.Srinath. 2016. Applications of Big Data Analytics in Health Care System. International Conference on Big Data Science and Analytics – (ICBDSA-2016) held at Sengamala Thayaar Educational Trust Women's College, Sundarakkottai, Mannargudi on 4.3.2016.

2. **Hemamalini, M**. and M.V.Srinath. 2014. Balanced Minimum Execution Time Grid task scheduling Algorithm in a Heterogeneous Distributed Environment in IEEE International Conference on Advances in Engineering and Technology. Held at E.G.S.Pillay Engineering College on 2.5.14 & 3.5.14.

National level

1. Saravanan, R. and **Hemamalini, M**. 2018. Key reduction Self Encrypting Algorithm in National Conference on Software Engineering – (NCSE-2018) on 27th March 2018 Organized by Dhanalakshmi Srinivasan Engineering College, Perambalur.

2. Tamilselvi, R. and **Hemamalini,M.** 2018. Mapping Model for Information Security in the National Conference on Software Engineering – (NCSE-2018) on 27th March 2018 Organized by Dhanalakshmi Srinivasan Engineering College, Perambalur.

3. Nagarathinam, A. and **Hemamalini, M.** 2009. An Elegant Approach to a Personalized Search in the National conference on Advanced computing and communication Technologies(NCACCT'09) held at E.G.S.Pillay Engineering College on 28.2.09.

4. **Hemamalini, M.,** D. Suganthy and M.Kamarajan. 2008. Acquisition of Knowledge and new formalism of Knowledge Representation. P. 162-165. In**:** the National Conference, Proceedings On "Soft Computing and Intelligent System (SCIS) 08" (Eds. Prof N.Venkatesan, Mr.V.K.Nagappan) organized by Bharathiar College of Engineering and Technology , Karaikkal, 165pp.

5. Nagarathinam, A. and **Hemamalini, M.** 2009. Personalization Based on Web Content and Users navigational Behavior. P. 26-29. In: the National Conference Proceedings on " National Conference on Computing NCC '09 " organized by Bharathiar College of Engineering and Technology , Karaikkal on 17th & 18th March, 2009.

6. Suganthy, D. and **Hemamalini, M.** 2007. Software Project management supported by Software Agent technology in the National Conference on Middleware Technologies, organized by Department of MCA, V.M.K.V Engineering College, Vinayaka Missions Univeristy, Salem on 5.4.2007.

7. Suganthy, D. and **Hemamalini, M.** 2007. Sorting Techniques: Least Demarcation by Well's Method in the National Conference on Emerging Trends in Information Technology held at Vivekanandha Institute of Information and Management Studies on 3.3.07**.**

c) *Article in In-house News Letter*

1. **Hemamalini, M.** 2013. "Grid Computing Vs Cloud Computing" in CAS News Letter, A.V.C College of Engineering, Mannampandal, Mayiladuthurai. 3(15):1-3.

2. **Hemamalini, M.** 2011. "Security Issues in Cloud Computing" in CAS News Letter, A.V.C College of Engineering, Mannampandal, Mayiladuthurai. 2(15):1-3.

3. **Hemamalini, M.** 2010. "Enhancements f Oracle 10G" in CAS News Letter, A.V.C College of Engineering, Mannampandal, Mayiladuthurai. 2(4):1-3.

4. **Hemamalini, M.** 2009. "Know the today's hot focus in WWW Mining-Web Personalization" in CAS News Letter, A.V.C College of Engineering, Mannampandal, Mayiladuthurai. 1(5):1-3.

E) PARTICIPATION IN SEMINAR, SYMPOSIA, WORKSHOPS

	Name of the Seminar/ Conference/ Symposia/ Workshop	Number
a	Conferences	11
b	Seminars//Symposia Attended	10
c	FDP/ SDP Attended	09
d	Workshops Attended	05
e	Orientation attended	01
f	Refresher attended	02
g	Training programme attended	02
h	Resource Person/ Invited lecture	03
i	Organising committee member	06
j	Other position held in the College	03

a) **Conferences :**

International Level

1. **Hemamalini, M**. and M.V.Srinath. 2016. Applications of Big Data Analytics in Health Care System. International Conference on Big Data Science and Analytics – (ICBDSA-2016) held at Sengamala Thayaar Educational Trust Women's College, Sundarakkottai, Mannargudi on 4.3.2016.

2. **Hemamalini, M**. and M.V.Srinath. 2014. Balanced Minimum Execution Time Grid task scheduling Algorithm in a Heterogeneous Distributed Environment in IEEE International Conference on Advances in Engineering and Technology. Held at E.G.S.Pillay Engineering College on 2.5.14 & 3.5.14.

National level

1. Saravanan, R. and **Hemamalini, M**. 2018. Key reduction Self Encrypting Algorithm in National Conference on Software Engineering – (NCSE-2018) on 27th March 2018 Organized by Dhanalakshmi Srinivasan Engineering College, Perambalur.

2. Tamilselvi, R. and **Hemamalini,M.** 2018. Mapping Model for Information Security in the National Conference on Software Engineering – (NCSE-2018) on 27th March 2018 Organized by Dhanalakshmi Srinivasan Engineering College, Perambalur.

3. Nagarathinam, A. and **Hemamalini, M.** 2009. An Elegant Approach to a Personalized Search in the National conference on Advanced computing and communication Technologies(NCACCT'09) held at E.G.S.Pillay Engineering College on 28.2.09.

4. **Hemamalini, M.,** D. Suganthy and M.Kamarajan. 2008. Acquisition of Knowledge and new formalism of Knowledge Representation. P. 162-165. In**:** the National Conference, Proceedings On "Soft Computing and Intelligent System (SCIS) 08" (Eds. Prof N.Venkatesan, Mr.V.K.Nagappan) organized by Bharathiar College of Engineering and Technology , Karaikkal, 165pp.

5. Nagarathinam, A. and **Hemamalini, M.** 2009. Personalization Based on Web Content and Users navigational Behavior. P. 26-29. In: the National Conference Proceedings on " National Conference on Computing NCC '09 " organized by Bharathiar College of Engineering and Technology , Karaikkal on 17th & 18th March, 2009.

6. Suganthy, D. and **Hemamalini, M.** 2007. Software Project management supported by Software Agent technology in the National Conference on Middleware Technologies, organized by Department of MCA, V.M.K.V Engineering College, Vinayaka Missions Univeristy, Salem on 5.4.2007.

7. Suganthy, D. and **Hemamalini, M.** 2007. Sorting Techniques: Least Demarcation by Well's Method in the National Conference on Emerging Trends in Information Technology held at Vivekanandha Institute of Information and Management Studies on 3.3.07**.**

b) **Seminar/ Guest Lecture Attended**

1. Participated in the One day National level Seminar on "Research Trends in Information Technology" organized by Department of Computer Science, Computer Application and Information technology, Sengamala Thayaar Educational Trust Women's College, Sundarakkottai, Mannargudi on 20.09.2017.

2. Participated in the One day National level Seminar on "Recent Trends in BIG DATA Analytics" organized by PG and Research Department of Computer Science held at Sir Issac Newton Arts and Science college, pappakovil, Nagappattinam on 17.09.2016.

3. Participated in the One day UGC Aided Seminar on "Recent Trends in Information Technology" organized by Department of Computer Science, A.V.C College(Autonomous) on 7.10.2014.

4. Participated in the One day National level Seminar on "Cloud Computing" organized by Department of MCA, Sengamala Thayaar Educational Trust Women's College, Sundarakkottai, Mannargudi on 26.09.2014.

5. Participated in one day Seminar on "Research Methodology" organized by Centre for Research,Anna University, Tiruhirappalli on 27.08.2011.

6. Participated in one day National Seminar on "Research Areas in Software Engineering" organized by the Department of Computer Science and Engineering, Oxford Engineering College, Tiruchirappalli on 15.12.2010.

7. Participated in one day Seminar on "Distributed System" organized by Department of Master of Computer Applications, Dhanalakshmi Srinivasan Engineering held on 19.08.2010.

8. Participated in the One day National level Seminar on "Web based Systems : Development and Applications" organized by Department of Information Technology & Precision Info Matics, Shri Angalamman College of Engineering on 21.02.2009.

9. Participated in the One day National Seminar on "Advances in optical Networking" sponsored by AICTE organized by Department of Electronics and Communication Engineering , Sri Manakula Vinayagar Engineering College, Puducherry on 26.07.2007 and 28.07.2007.

10. Participated in the UGC Sponsored Seminar on "Cyber Impact on Society" organized by Department of Computer Science, Seethalakshmi Ramaswami College, Tiruchirappalli on 11.2.2004 and 12.2.2004.

c) FDP/SDP Attended

1. Participated in one day "Faculty Refreshment Programme" organized by Internal Quality Assurance Cell(IQAC), A.V.C.College (Autonomous), Mannampandal, Mayiladuthurai held on 24.01.15.

2. Participated in one day State level FDP on "Research Directions in Cloud Computing" organized by Department of Computer Applications, A.V.C College of Engineering held on 24.09.2011.

3. Participated in one day Staff Development Programme on "Frontiers of intelligent computing" sponsored by AICTE organized by Bharathiyar college of engineering technology, Karaikal from 21.7.2009 to 3.8.2009.

4. Participated in one day FDP on "FOSS" organized by Department of Computer Applications, A.V.C College of Engineering on 21.02.2008.

5. Participated in one day FDP on "Virtual Class Room" organized by Department of Computer Applications, A.V.C College of Engineering on 23.01.2008.

6. Participated in SDP on "Computing : Information , Knowledge and Business Intelligence" organized by Sri Manakula Vinayagar Engineering College, Puducherry from 3.1.2008 to 13.1.2008.

7. Participated in two days FDP on "Web Development Tools" organized by IBM and Department of Computer Science & Engineering A.V.C College of Engineering on 4.10.2007 and 5.10.2007.

8. Participated in Staff Development Programme on "Advances in Embedded & Wireless Technology" organized by Sri Manakula Vinayagar Engineering College, Puducherry from 18.1.2007 to 28.1.2007.

9. Participated in ten-day Staff Development Programme on "Computational Intelligence for System Automation and Communication" organized by Sri Manakula Vinayagar Engineering College, Puducherry from 18.12.2006 to 28.12.2006.

d) Workshops Attended

1. Participated in one day Workshop on "Scientific Writing" organized by Internal Quality Assurance Cell(IQAC) and R&D Cell, A.V.C.College(Autonomous), Mannampandal, Mayiladuthurai held on 11.10.2014.

2. Participated in four day National Level Workshop on "Open Source-Cloud Computing Solutions" organized by Department of Computer Applications, A.V.C.College of Engineering, Mannampandal, Mayiladuthurai from 22.7.2013 to 25.7.2013.

3. Participated in one day Workshop on "Personality Development Programme" organized by ISTE Staff chapter, A.V.C.College of Engineering, Mannampandal, Mayiladuthurai held on 19.11.2010.

4. Participated in one day Workshop on "Research Methodology" organized by R&D Cell, A.V.C.College of Engineering, Mannampandal, Mayiladuthurai held on 10.11.2010.

5. Participated in Two day Workshop on "Innovative skills" organized by Staff Development Committee & ISTE Chapter, A.V.C.College of Engineering, Mannampandal, Mayiladuthurai held on 23.2.2007 and 24.2.2007.

e) Orientation Attended

1. Participated in UGC Sponsored "108th Orientation programme" organized by UGC-HRDC, Bharathiar University , Coimbatore from 6.5.2015 to 2.6.2015 and obtained grade 'A'.

f) Refresher Programme Attended

1. Participated in UGC Sponsored "Refresher Course in Computer Science" organized by UGC-HRDC, Pondicherry University, Pondicherry held from 3.11.2017 to 23.11.2017 and obtained grade 'A'.

2. Participated in UGC Sponsored "Refresher Course in Computer Science" organized by UGC-HRDC, Bharathiar University, Coimbatore held from 13.2.2019 to 5.3.2019 and obtained grade 'A'.

g) **Training Programmes Attended**

1. Participated in three days skill based training programme on "Multi Core Programming" organized by Intel & ICT Academy of Tamil Nadu from 9-03-2011 to 11-03-2011.

2. Participated in one day training programme on "Quality Management System ISO 9001:2008 Review and Discussion" organized by A.V.C.College of Engineering, Mannampandal, Mayiladuthurai on 4.1.2011.

h) **Acted as Resource Person/ Invited Talk**

1. Invited as Chief guest for one day Inter college Symposium at kalaimahal arts and science college, Sembanarkoil on 10-10-18 and deliver a lecture on Computer Technology.

2. Acted as a resource person and delivered a lecture about "Network Security" for the seminar on 'Network Security', organized by Department of Computer Science, Annai College of Arts and Science Kumbakonam, held on 2.8.2018.

3. Acted as resource person and delivered a lecture on "Big data" for the Technical Seminar on "Big data", organized by PG Department of Computer Science & Computer Applications, Bharathidasan University Constituent College for Women, Orathanadu on 4.01.2018.

4. Acted as Chair person for paper presentation and delivered a lecture on "Recent Trends in IT" for the State level Seminar on Recent Trends in computer science and Applications organized by Department of Computer Science and Computer Applications, Shree Raghavendra Arts and Science college, Keezhamoongiladi,chidambaram on 15.2.2017.

i) **Organising Committee Member / Coordinator**

   Coordinator:

1. Organized one day Cloud Literacy day Training Programme on 16-10-18 by ICT Academy of AVC College(Autonomous), Mannampandal.

2. Organized one day workshop on "Development of Mobile Applications using Java and Android Studio" on 24-08-18 by ICT Academy of AVC College(Autonomous), Mannampandal.

3. Organized one day seminar on "BASH SCRIPTS" on 9-3-13 Organized by CSI Student Chapter PG of A.V.C College of Engineering, Mannampandal.

4. Organized workshop on "Hardware and OS Installation" on 21-8-2012 Organized by CSI Student Chapter PG of A.V.C College of Engineering, Mannampandal.

5. Organized Guest Lecture on "Machine Learning" on 1-10-2012 Organized by CSI Student Chapter PG of A.V.C College of Engineering, Mannampandal.

6. Organized one day seminar on "Network Security" on 29-11-2011 Organized by CSI Student Chapter PG of A.V.C College of Engineering, Mannampandal.

7. Organized one day seminar on "Recent Trends in IT" on 8-8-2011 Organized by CSI Student Chapter PG of A.V.C College of Engineering, Mannampandal.

8. Organized one day seminar on "Research Issues in Data Mining" on 31-03-2011 Organized by CSI Student Chapter PG of A.V.C College of Engineering, Mannampandal.

Organising Committee Member:

1. Organizing committee member for the Faculty Development Training Programme Sponsored by Centre for faculty Development Anna University, Chennai, on "Data Warehousing and Data mining" organized by department of computer Application from 3-6-2013 to 9-6-2013.

2. Organizing committee member for the AICTE sponsored four-day workshop on "open source – Cloud Computing Solutions" from 22nd to 25th July 2013 organized by Department of computer Applications.

3. Organizing committee member for the two-day National Level Workshop on "Computer Programming" organized by Department of Computer Applications on 27th and 28th September.

j) Other Positions held in the A.V.C. College (Autonomous)

1. Member in Board of Studies in A.V.C. College and played a major role in revising and incorporation of Job-oriented and innovative syllabus for both UG and PG courses from 2014 to till date.

2. Coordinator of "ICT Academy" from September 2017 to till date.

3. Member in "Academic Council" from June 2016 to till date.

4. Member of annual stock verification committee for Dept. of Botany during 2017-18; for chemistry during 2016-17 and for Mathematics from 2015-2016.

Title of the M.Phil. Projects guided successfully and submitted reports:

1. **Tamilselvi, R. 2018**. Mapping Model for Information Security. M.Phil. dissertation, Bharathidasan University, Tiruchirappalli, India.

2. **Saravanan, R. 2018.** Key Reduction Self Encryption Algorithm. M.Phil. dissertation, Bharathidasan University, Tiruchirappalli, India.

3. **Brindha, R. 2017.** An Enhanced Reserving Room Before Encryption Algorithm Based On Reversible Data Hiding Technique In Image Steganography. M.Phil. dissertation, Bharathidasan University, Tiruchirappalli, India.

4. **Meena, G. 2016.** Enhanced Security System in Mobile Ad-hoc Network. M.Phil. dissertation, Bharathidasan University, Tiruchirappalli, India.

5. **Nahomiyal, A. 2016**. Enhanced Network Security System Using Firewall and Active Response Architecture. M.Phil. dissertation, Bharathidasan University, Tiruchirappalli, India.

6. **Rubavathi, V. 2016**. A Trust-Based Approaches for Secure Routing Dissemination in a vehicular Ad-Hoc Network. M.Phil. dissertation, Bharathidasan University, Tiruchirappalli, India.

F) TEACHING EXPERIENCE

S.No	Name of the Institutions	Designation	Period of Working	Total Experience
1.	A.V.C College (Autonomous)	Assistant Prof.	12.10.13 to till now	5 years 6 Months
2.	A.V.C.College of Engineering	Asst. Prof(Sl.Grade)	01.11.11 to 1.10.2014	1 year 11 Months
3.	A.V.C.College of Engineering	Asst. Prof(Sr.Grade)	01.03.11 to 1.10.11	7 Months
4.	A.V.C.College of Engineering	Lecturer	30.8.06 To 31.02.11	4 Years 6 Months
5.	Seethalakshmi Ramaswami College	Lecturer	28.7.99 To 10.11..04	5 Years 2 Months

G) ACADEMIC ACHIEVEMENTS

1. Awarded Best Faculty Computer Science-Grid computing for the year 2017 by Integrated Intelligence Research (IIR) in the Republic Day Achievers Award 2018.

2. Achieved 100 % academic results in Anna University examinations for five times

S.No	Title of paper	Class	Sem/Year	Result
1	MC9272 – Information Systems	MCA	MAY 2013	100%
2	CA5331 – Software Quality Assurance	MCA	DEC 2011	100%
3	CA5253-Unix and Network Programming	MCA	MAY 2010	100%
4	CA 5302 – Software Project Management	MCA	MAY 2009	100%
5	XSC342 – Personal Software Process , Team Software Process	M.Sc Software Engineering	IX Sem 2008	100%

H) MEMBERSHIP IN PROFESSIONAL BODIES

Agency	Member
ISTE	Life Member

I) DETAILS OF PARTICIPATION IN UNIVERSITY ADMINISTRATION

- Examiner in the U.G. Board (Computer Science), Bharathidasan University, Tiruchirappalli, from 2014 to till date.

- Research advisor for M.Phil., programme in Bharathidasan University, Tiruchirappalli, from 2015 to till date (Ref. No. 30544/M.Phil./R.A./Computer Science/2015/dt.6.10.15).

- have done internal valuation for M.Phil. Computer Science in A.V.C. College (Autonomous), Mannampandal from 2014 - till now.

- Question paper setter for the following institutions:
  - Jamal Mohamed College(Autonomous), Tiruchirappalli
  - Bharathiyar University, Coimbatore
  - Hajee karutha Rowther Howdia College, Uthamapalayam, Theni (Dt).
  - Thiruvalluvar University.

- Anna University Representative for Anna University Theory Examinations in Arasu Engineering College, Kumbakonam from 1.12.2011 to 13.12.2011.

- Examiner in the P.G Board (Computer Science), Anna University, Chennai, from 2006 to 2013.