THOMAS MONOTH

CURRICULUM VITAE

PERSONAL DATA

Born   :   30/09/1974, Kozhikode,Kerala, India.

Married, Two Children

Citizen of India.

Passport Number   :   J2659160, Valid till 27/07/2020.

OFFICE ADDRESS

Department of Computer Science

Mary Matha Arts and Science College (Kannur University)

Vemom Post, Mananthavady-670645, Wayanad, Kerala, INDIA.

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EDUCATIONAL BACKGROUND

Degree	Year	University	Subject
Ph.D. (Doctor of Philosophy)	2012	Kannur University	Computer Science
M.Phil. (Master of Philosophy)	2008	Bharathiar University	Computer Science
M.Sc.(Master of Science)	2001	Bharathiar University	Computer Science
B.Sc. (Bachelor of Science)	1998	Calicut University	Computer Science

EMPLOYMENT HISTORY

Lecturer	:	Dept. of Computer Science	Nov. 2001 – Dec. 2006
		Mary Matha Arts Science College	
		Mananthavady, Kerala, India 670654	
Asst. Prof.	:	DO	Jan. 2007 - Oct. 2015
Assoc. Prof.	:	DO	Nov. 2015- Present (Promotion due)
Head	:	DO	Nov. 2001- Present

FELLOWSHIPS AND AWARDS

TITLE	:	SRF (Summer Research Fellowship)-2015
SPONSOR	:	Indian Science Academies (IAS, INSA and NAS).
PROGRAMME	:	Post-Doctoral Work.
INSTITUTE	:	IITM (Indian Institute of Technology, Madras), Chennai, India.
SUPERVISOR	:	Prof. C. Pandu Rangan

TITLE	:	FDP (Faculty Development Programme)
SPONSOR	:	UGC (University Grants Commission), Govt. of India.
PROGRAMME	:	Ph.DWork.
INSTITUTE	:	Kannur University, Kerala, India.
SUPERVISOR	:	Dr.Babu Anto P

AREAS OF INTEREST

Visual Cryptography

Secret Sharing

Digital Image Forensic

Digital Image Steganography

COURSES TAUGHT

(Under Graduate and Post Graduate level)

Information Security

Computer Networks

Visual Cryptography

Programming Languages (C, C++)

PROFESSIONAL VISITS ABROAD

Nanyang Technological University (NTU), Singapore, Participate and present paper in the International Conference on Cyber Worlds (CW 2010). Visited National University of Singapore (NUS), Singapore.

SPONSORED RESEARCH PROJECTS

1. TITLE : Analysis of Digital Image Encryption Based on Cryptographic - Techniques.
SPONSOR : UGC (University Grants Commission), Govt. of India.
DURATION : 2 Years, (2013-2015).
STATUS : Completed.
MY ROLE : Principal Investigator.

2. TITLE : Online in Information Security Based on Visual Secret Sharing-Schemes.
SPONSOR : UGC, Govt. of India.
DURATION : 2 Years, (2008-2010).
STATUS : Completed.
MY ROLE : Principal Investigator.

3. TITLE : E-teaching and E-learning
SPONSOR : UGC, Govt. ofIndia.
DURATION : 2 Years, (2006-2008).
STATUS : Completed.
MY ROLE : Principal Investigator.

CONFERENCES AND WORKSHOPS ORGANIZED

TITLE   : National Workshop on Emerging Research Trends in Computer Science.

SPONSOR   : UGC (University Grants Commission), Govt. of India.

DATE   : October 15 – 17, 2015

MY ROLE   : Convener & Organizing Secretary

TITLE   : National Conference on Recent Advances in Information Security

SPONSOR   : UGC (University Grants Commission), Govt. of India.

DATE   : June 14 – 15, 2007

MY ROLE   : Convener & Organizing Secretary

PUBLICATIONS

I. Refereed International Journals

1. Lisha A and **Thomas Monoth,** *"Analysis of cryptographic Algorithms Based on Vedic Mathematics",* International Journal of Applied Engineering Research, Volume -13, Issue 3, pp.68-72, 2018,(Research India Publications, ISSN 0973-4562).

2. Jisha T E and **Thomas Monoth**, *"Cheating Prevention in Active Digital Image Forensics based on Visual Cryptography Scheme"*, International Journal of Applied Engineering Research, Volume -13, Issue 3, pp.117-120, 2018,(Research India Publications, ISSN 0973-4562).

3. Neetha Francis and **Thomas Monoth**, *"An Analysis of Hybrid Cryptographic Approaches for Information Security"*, International Journal of Applied Engineering Research, Volume -13, Issue 3, pp.124-127, 2018,(Research India Publications, ISSN 0973-4562).

4. Lisha A and **Thomas Monoth,** *"Analysis of Digital Signal Processing Algorithms Based on Vedic Mathematics",* International Journal of Computer Sciences and Engineering, Volume 6, Issue 6, pp. 142-144, 2018, (ISSN: 2347- 2693).

5. Anjali Maria Paul, Jisha T E and **Thomas Monoth**, *"Translation of Paniya Language in Wayanad to Malayalam using Lexical Analysis"* International Journal of Computer Science Trends and Technology (IJCST), Volume 5, Issue 2, , pp. 534-539, 2017, (ISSN : 2347- 8578).

6. Jisha T E and **Thomas Monoth,** *"Identification of Multiword Expressions: A Comparative Literature Study"* International Journal of Computer Science Trends and Technology (IJCST), Volume 5, Issue 2, , pp. 528-533, 2017, (ISSN : 2347-8578).

7. **Thomas Monoth** and Babu Anto P, *Contrast-Enhanced Visual Cryptography Schemes Based on Perfect Reconstruction of White Pixels and Additional Basis Matrix,* Advances in Intelligent Systems and Computing(AISC): 412, pp.361-368, 2016. (Springer Science, Germany, ISSN :2194-5357).

8. **Thomas Monoth** and Babu Anto P, *Visual Cryptography Schemes With Perfect Reconstruction of White Pixels*, Mathematical Science International Research Journal, Vol. 3, pp.706-709, 2014 (Global Publishing Company, USA, ISSN : 2278-8697).

9. **Thomas Monoth** and Babu Anto P, *Security-Enhanced Visual Cryptography Schemes Based on Recursion*, Communications in Computer and Information Science (CCIS): 140, pp. 255-262, 2011. (Springer-Verlag, Germany, ISSN : 1865-0929).

10. **Thomas Monoth** and Babu Anto P, *Tamperproof Transmission of Fingerprints Using Visual Cryptography Schemes,* Journal of Procedia Computer Science, Vol. 2, pp. 143-148, 2010. (Elsevier, Netherlands, ISSN : 1877-0509).

11. **Thomas Monoth** and Babu Anto P, *Achieving Optimal Contrast in Visual Cryptography Schemes Without Pixel Expansion*, International Journal of Recent Trends in Engineering (IJRTE), Vol.1, No.1, pp. 468-471, 2009. (Academy Publisher, Finland, ISSN: 1787-9617).

12. **Thomas Monoth** And Babu Anto P, *An Improved 'n-out-of-n' Visual Cryptography Schemes,* International Journal of Computer Science and Information Technology (IJCSIT), Vol.1, No.2, pp. 125-129, 2008. (Serials Publications, New Delhi, ISSN : 0974-8385)

II.   Refereed International Book Chapters

13. **Thomas Monoth** and Babu Anto P, *Data Encryption and Decryption Based on Matrix Ciphers and Visual Cryptography*, Mathematical and Computational Models: Recent Trends, pp. 394-399, 2010. (Narosa Publishing House, New Delhi, ISBN : 978-81-8487-042-8).

III.   Refereed International Conferences

14. **Thomas Monoth** and Babu Anto P, *Contrast-Enhanced Visual Cryptography Schemes Based on Additional Pixel Patterns*, Proc. of the IEEE International Conference on Cyber Worlds (CW 2010), NTU, Singapore, pp. 171-178, 2010. (IEEE Computer Society, ISBN : 978-0-7695-4215-7).

15. **Thomas Monoth** and Babu Anto P, *Optimal Contrast '3-out-of-3' Visual Secret Sharing Scheme Using Additional Matrices*, Proc. of the IEEE International Conferences on Emerging Trends in Computing(ICETiC 2009), Madurai, Tamil Nadu, pp.47-50, 2009.

16. **Thomas Monoth** and Babu Anto P, *"Applications of Binary Matrices in Information Security Based on Visual Cryptography"*, Proceedings of the International Conferences on Mathematics and Computer Science(ICMCS 2009),Chennai, Tamil Nadu, India, Vol.2.pp. 416-419, 2009. (Scitech Publications(India) Pvt. Ltd, Chennai, ISBN : 978-81-8371-195-1).

17. **Thomas Monoth** and Babu Anto P, *Reconstruction of Secret Image in Recursive Visual Cryptography Based on XNOR Operation*, Proc. of the International Conference on Cognition and Recognition (ICCR 2008), Mysore, Karnataka, pp. 175 – 178, 2008.(Serials Publications, New Delhi, ISBN : 978-81-8424-307-9).

18. **Thomas Monoth** and Babu Anto P, *Improved Contrast in '3-out-of-3' Visual Secret Sharing Scheme using Additional Matrix*, Proc. of the International Conferences on Managing Next Generation Software Applications (MNGSA 2008), Coimbatore, Tamil Nadu pp.1109–1115,2008.(Shri Garuda Publications, Coimbatore, ISBN : 978-81-907870-0-0).

19. **Thomas Monoth** and Babu Anto P, *Recursive Visual Cryptography*, Proc. of the International Conferences on Advances in Computer Vision and Information Technology (ACVIT-07), pp.1170-1174, 2007. (I.K International Publishing House Pvt. Ltd. New Delhi, ISBN : 978-81-89866-74-7).

20. **Thomas Monoth** and Babu Anto P. *Recursive Visual Cryptography Using Random Basis Column Pixel Expansion,* Proc. of the IEEE International Conference on Information Technology (ICIT), Rourkela, Orissa, pp. 41-43, 2007. (IEEE Computer Society, ISBN : 0-7695-3068-0).

21. **Thomas Monoth** and Babu Anto P, *Recursive Visual Secret Sharing Scheme*, Proc. of the International Conference on Advances in Information and Communication Technology (ICICOT 2007), Manipal, Karnataka, pp.151-154, 2007. (Macmillan India Ltd., New Delhi, ISBN : 0230-63437-0).

22. **Thomas Monoth** and Babu Anto P, *Trends and Developments in E-teaching and E-learning*, Proc. of International Confernce on Frontier Technologies Need for the Industry, Business and Education, Hosur, Tamil Nadu, pp.297-303, 2006.

IV.   Refereed National Conferences

23. Jisha T E and **Thomas Monoth,** *"Identification of Multiword Expressions: A Literature Study"* Proc. of the National Conference on Computational Methods, Communication Techniques & Informatics (NCCCI 2017) Gandhigram Rural Institute-Deemed University ,Tamil Nadu, India, pp. 385-389, 2017(ISBN : 978-81-933316-1-3).

24. Anjali Maria Paul, Jisha T E **and Thomas Monoth,** *"Translation of Paniya Language in Wayanad to Malayalam using Lexical Analysis"* Proc. of the National Conference on Computational Methods, Communication Techniques & Informatics (NCCCI 2017) Gandhigram Rural Institute-Deemed University ,Tamil Nadu, India, pp.45-49, 2017(ISBN : 978-81-933316-1-3).

25. **Thomas Monoth** and Babu Anto P, *"E-documents Encryption using Visual Cryptography based on XNOR Operation"*, Proc. of the National Conference on Image Processing(NCIMP 2010), Gandhigram, Tamil Nadu, pp. 184-186, 2010.(Allied Publishing Pvt. Ltd, New Delhi, ISBN : 978-81-8424-574-5).

26. **Thomas Monoth** and Babu Anto P, *Tamperproof Preparation and Transmission of Online Documents Using Visual Secret Sharing*, Proc. of the 21st Kerala Science

Congress, Kollam, Kerala, India, pp.392-394, 2009. (KSCSTE, Govt. of Kerala, ISBN : 81-86366-66-0).

27. **Thomas Monoth** and Babu Anto P, *Tamperproof Question Papers Using Visual Cryptography*, Proc. of the 19th Kerala Science Congress, Kannur, Kerala, pp.929-930, 2007. (KSCSTE, Govt. of Kerala).

28. **Thomas Monoth** and Babu Anto P, *E-Learning and its Impact on Higher Education*, Proc. of the National Conference on Computer Science and Communication Technology(NCSCT 2007), Tiruchirappalli, Tamil Nadu, pp. 157-160, 2007.(UGC, New Delhi).

29. **Thomas Monoth** and Babu Anto P, *Recent Trends in Cryptography*, Proc. of the National Conference on Issues and Trends in Advanced Computing (NITAC 2006), Sathyamangalam, Tamil Nadu, India, pp.36-37, 2006.

V.   Conferences Proceedings Edited/Course Materials Prepared

1. Proceedings of the National Workshop on Emerging Research Trends in Computer Science, October 15-17, 2015, Published by UGC (University Grants Commission), Govt. of India.

2. Proceedings of the National Conference on Recent Advances in Information Security, June 14-15, 2007,Published by UGC (University Grants Commission), Govt. of India.

3. Self-Instructional Materials (Course title: Digital Image Processing) for Bachelor of Computer Applications (BCA) of Kannur University Published by School of Distance Education, Kannur University, 2014.

4. Self-Instructional Materials (Coursetitle : Programming in C & C++) for Bachelor of Computer Applications(BCA) of Kannur University Published by School of Distance Education, Kannur University, 2011.

MEMBERSHIP IN ACADEMIC/PROFESSIONAL ORGANIZATIONS

1. Chairman, Board of Studies, Computer Science (PG), Kannur University,2018-Present.

2. Member, Board of Studies, Computer Science (UG), Kannur University, 2018-Prsent.

3. Member, Board of Studies, Computer Science (PG), MG University, 2017—Present.

4. Member, Doctoral Committee, Information Science and Technology(Computer Science), Kannur University, 2016- present

5. Chairman, Board of Examinations, MSc Computer Science, Kannur University, 2015 - 2018.

6. Chairman, Board of Examinations, BCA, Kannur University, 2014 - 2015

7. Chairman, Board of Studies, Computer Science (UG), Kannur University, 2010- 2012.

8. Member, Board of Studies, Computer Science (PG), Kannur University, 2010-2012.

9. Member, Board of Studies, Printing and IT, Calicut University, 2010-2012.

10. Member, Board of Studies, Computer Science (UG), Kannur University, 2008-2010.

11. Chief and Additional Examiner, Board of Examinations, B.Sc. and BCA, Kannur University, 2002-2013.

12. Life member (L/567), Cryptology Research Society of India.

13. Life member (l1501906), Computer Society of India (CSI).

14. Life member (L27799), The Indian Science Congress Association (ISCA).

PROJECT/RESEARCH GUIDANCE

DEGREE	GUIDED	ON GOING
PhD	-	04
M Sc	15	05
BSc	50	02

MAJOR DEPARTMENTAL/INSTITUTE RESPONSIBILITIES

1. Coordinator, IGNOU, Regular Study Centre (83009), June 2015 – Dec.2017

2. Member, College Council, November 2001 - present.

3. Administrator of the College Intranet System, Since 2005-2010.

4. Administrator of the College Website, Since 2004-2010.

MISCELLANEOUS

I. Invited Talk/Resource Person

II. Subject Expert
III. Refresher/Orientation/Short Courses Attended
IV. Question Paper Setter

REFERENCES

1. Dr. Babu Anto P
    Controller of Examinations
    Kannur University
    Kannur-670002, Kerala, India.
    E-mail : bantop@gmail.com
    Mob : 91

2. Dr. Raju G
    Professor
    Department of Computer Science and Engineering
    Christ University, Bangalore.