

EXECUTIVE SUMMARY



Mustafa Mat Deris received PhD from University Putra Malaysia in 2002. He is a professor of computer science in the Faculty of Computer Science and Information Technology, UTHM, Malaysia. He has successfully supervised nine PhD students and currently he is supervising seven PhD students and published more than 170 papers in journals and conference proceedings with h-index = 8 in Scopus. He has appointed as *editorial board member* for Journal of Next Generation Information Technology, JNIT, Korea, and Encyclopedia on Mobile Computing and Commerce, Idea Group, USA, **Guest editor** of International Journal of BioMedical Soft Computing and Human Science for Special Issue on “Soft Computing Methodologies and Its Applications” a *reviewer* of several international journals such as IEEE Transaction on Parallel and Distributed Computing, Journal of Parallel and Distributed Databases, Journal of Future Generation on Computer Systems, Elsevier, Journal of Cluster Computing, Kluwer, and Journal of Computer Mathematics, Taylor & Francis, UK.

He has served as a *program committee member and co-organizer* for numerous international conferences/workshops including Grid and Peer-to-Peer Computing, (GP2P 2005, 2006), Autonomic Distributed Data and Storage Systems Management (ADSM 2005, 2006,2007), and Grid Pervasive Computing Security, **organizer** for workshops on Rough and Soft Sets Theories and Applications (RSAA 2010), Fukuoka, Japan, and Soft Computing and Data Engineering (SCDE 2010, 2011, Korea, SCDE 2012, Brazil)

He is the recipient of “**ICT Excellent Teacher**” award 2006, from Malaysian National Computing Confederation (MNCC).

His research interests include distributed databases, data grid, data mining and soft computing.

Curriculum Vitae

1. **Full Name** : Mustafa bin Mat Deris
 2. **Date of Birth** : 25th November 1958.
 3. **Nationality** : Malaysia
 4. **Home Address** : Kg. Surau Hj. Mat, Seberang Marang,
21600, Marang Terengganu, Malaysia.
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5. CONTACT ADDRESS

Office:

Department of Software Engineering
Faculty of Computer Science and Information Technology
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Home:

No. 34, Jalan Wira Jaya 2,
Taman Wira Jaya, Parit Raja
86400, B.Pahat
Johor.

6. EDUCATION

- | | |
|-----------|--|
| 1976-1979 | Universiti Pertanian Malaysia.
Obtained Dip. Science with Educations, |
| 1979-1982 | Universiti Pertanian Malaysia.
Obtained B.Sc(Hons) (Mathematics) |
| 1988-1989 | University of Bradford, England.
Obtained M.Sc in Computing. |
| 1999-2001 | University Putra Malaysia.
Obtained Ph.D in Computer Science |
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7. EMPLOYMENT POSITION

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| Mei 1984 - Feb. 1985 | Appointed as Product Support System, MESINIAGA Sdn.
Bhd, IBM Sole Dealer/Agent, Malaysia. |
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Mac 1985 - Mac 1986	Appointed as Executive Officer (Computer), TAKAFUL Insurance - developing TAKAFUL System
Mac 1986 - April 1997	Lecturer of computer science, KUSZA. Including one year leave to do M.Sc. degree at University of Bradford England.
Aug. 1987- Sept. 1988	Appointed as Coordinator of Computer Science Programme, KUSZA.
Mei 1998- Feb. 2000	Appointed as Coordinator of Computer Science Programme, Universiti Putra Malaysia Terengganu.
Mac 2000 – April 2001	Appointed as Head, Computer Science Department, Kolej Universiti Terengganu.
Jan 2002 – Mac 2005	Appointed as Head, Computer Science Department, Kolej Universiti Sains dan Teknologi (KUSTEM)
May 2002 – Mac 2005	Promoted as Associate Professor at KUSTEM
April 2005- Mac 2011	Promoted as Professor JUSA C (VK 7) at UTHM.
Mac 2011 – present	Promoted as Professor JUSA B (VK 6: P1T5) at UTHM

8. POSITION

Professor

9. AREA OF INTERESTS

Distributed Databases, Data Grid, Data Mining, and Soft Computing

10. AWARDS

- **Recipient** of Tunku Abd. Rahman Foundation Award for Best Student (1981-1982) .
- **Recipient** of Syed Kechik Award for Best Malay Student 1980.
- Excellence Service Award (vertical) 1996.

- Excellence Service Award (2000)
- Excellence Service Award (2002)
- **Gold medal:** 33rd International exhibition of Inventions New techniques Products, Geneva, (Muhammad Suzuri Hitam, Wong Siew Leng, Liew Hock Chark, **Mustafa Mat Deris**, Md. Yazid Mohd Saman,” Automatic Recognition and Estimation of Coral Reefs From Underwater Video Images”), 6-10 April, 2005.
- **Bronze medal:** 33rd International exhibition of Inventions New techniques Products, Geneva, (Muhammad Suzuri Hitam, Wan Nurul Jawahir Wan Yusof, **Mustafa Mat Deris**“ StaRS: Smart Trademark Retrieval System), 6-10 April, 2005.
- **Recipient of “ICT Excellent Teacher” award 2006**, Malaysian National Computing Confederation (MNCC).
- **Recipient Anugerah Penerbitan Universiti 2008**, Kategori Makalah Terbaik, Universiti Tun Hussein Onn Malaysia.
- **Recipient University Researcher’s Award, 2008**, Universiti Tun Hussein Onn Malaysia
- **Recipient University Researcher’s Award, 2009**, Universiti Tun Hussein Onn Malaysia
- **Recipient University Publication Award 2009**, Universiti Tun Hussein Onn Malaysia

11. MANAGEMENT EXPERIENCE

Head Publication Office (Sept. 2011- today)

Universiti Tun Hussein Onn Malaysia
B. Pahat, 86400, Johor.

Deputy Director (Feb. 2010 – Jan. 2011)

Research and Innovation Centre,
University Tun Hussein Onn Malaysia
B. Pahat, 86400, Johor.

Dean (Nov. 2005 – Nov 2009)

Faculty of Information Technology and Multimedia
University Tun Hussein Onn Malaysia,
B. Pahat, 86400, Johor

Head (April 2000-Mac 2005)

Department of Computer Science
College University Science and Technology Malaysia,
Mengabang Telipot,
21030, K. Terengganu
Terengganu

12. PROFESSIONAL ACTIVITIES

Reviewer for Scientific Journals and proceedings

- **Journal of Intelligent Manufacturing**, Springer,2012 (1 paper)
- **Journal of Knowledge-Based Systems**, Elsevier, 2012 (2 papers)
- **Transaction on Parallel and Distributed Systems**, IEEE, 2012 (1 paper)
- **Journal of Future Generation of Computer Systems**, Elsevier, 2011 (1 paper)
- **Journal of Knowledge-Based Systems**, Elsevier 2011 (3 papers)
- **Journal of Computer Mathematics with Applications**, Elsevier 2011 (2 papers)
- **Journal of Mathematics and Computer Modeling**, Elsevier 2011 (1 paper)
- **Journal of Bio-Medical Systems**, Springer 2010 (2 papers)
- **Journal of knowledge-based Systems**, Elsevier 2010 (2 papers)
- **Journal of Information Technology and Decision Making**, WorldScientific 2010 (1 paper)
- **Journal of Networks and Computer Applications**, Elsevier 2010 (1 paper)
- **IEEE Transactions of Parallel and Distributed Computing**, 2009 (1 paper)
- **Journal of Knowledge-Based systems**, Elsevier, 2009 (3 papers)
- **Journal of Parallel and Distributed Computing**, Elsevier 2009 (1 paper)
- **12th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2008** (2 papers)
- **Journal of Parallel and Distributed Computing**, Elsevier 2008 (1 paper)
- **Journal of Intelligent Manufacturing**, Springer, 2008 (2 paper)
- **The 2008 International Symposium on Ubiquitous Multimedia Computing**, Hobart, Australia (October,2008) (2 papers)
- **International Conference on Information Systems Analysis and Synthesis**, 2008, Orlando, Florida (1 paper)
- **Journal of Networks and Computer Applications**, Elsevier, 2008 (1 paper)
- **Journal of Future Generation of Computer Systems**, Elsevier, 2008 (3 papers)
- **International Symposium on Data Mining and Information Retrieval**, Niagara Fall, Canada, 2007 (3 papers)
- **International Conference on Intelligent Systems Design and Applications**, Rio de Janeiro, Brazil, Oct. 2007 (5 papers)
- **Journal of Computers and Electrical Engineering**, Elsevier, 2007 (1 paper)
- **International Conference on Intelligence Systems Design and Applications (ISDA)** Shandong, October 2006, China
- **Journal of Computer Mathematics**, Taylor & Francis, UK, 2006 (special issue)
- **International Workshop on Grid Computing Security and Resource Management (GSRM'06)**, May 2006, held in Reading, UK. (2 papers)
- **Fourth International Workshop on Autonomic Distributed Data and Storage Systems Management Workshop**, May 2006, held in Reading, UK (ADSM 2006) (4 papers)
- **IASTED International Conference on Databases**, Cancun, Mexico, Dec. 2005 (2 papers)

- **WSEAS Conference on computers**, July 2005, Greece (6 papers)
- **International Workshop** on Grid Computing Security and Resource Management (GSRM'05) , May 2005, held in Atlanta. (3 papers)
- **International workshop on Autonomic Distributed Data and Storage Management**, May 2005, held in Atlanta,(3 papers)
- **International workshops on Grid and Peer-to-Peer Computing**, May 2005, held in Singapore.(4 papers)
- **Journal of Cluster Computing (special issue)**, Kluwer, 2003 (2 papers)
- **IEEE Conference, Cluster and Grid Computing**, Chicago, April 2004 (3 papers)
- **Journal of Parallel and Distributed Databases** (special issue) Elsevier, 2004 (2 papers)
- **PERTANIKA Journal** of Science and Technology (4 papers)
- **National Science Foundation** (5 proposals)

13. **INTERNATIONAL ACTIVITIES (JOURNAL/CONFERENCE/ WORKSHOP)**

Guest Editor

1. **Journal of BioMedical Systems and Human Sciences.**

Editorial Board Membership:

- **International Journal of Next Generation Information Technology**, JNIT, Korea.
- **International Journal of Autonomous and Adaptive Communication Systems (IJAACS)** on “Service Oriented and Pervasive Technologies”, (Special Issue), Inderscience.
- **Journal of Information and Communication Technology**, UUM.
- **Natural and Applied Sciences**, World Enformatika Society
- **International Journal of Applied Science, Engineering and Technology** (IJSET), World Academy of Science, Engineering and Technology (WASET).
- **International Journal of Electrical, Computer, and Systems Engineering (IJECS)**, World Academy of Science, Engineering and Technology (WASET).
- **International Journal of Applied Mathematics and Computer Sciences (IJAMCS)**
- **Encyclopedia of Mobile Computing and Commerce**, Idea Group Pub. USA.
- **Editor-in-Chief of Journal of Science and Technology**, UTHM, until 2010

Organizer:

- **3rd International Workshop** Soft Computing and Data Engineering (SCDE) Salvador, Brazil, June. 2012
- **2nd International Workshop** Soft Computing and Data Engineering (SCDE) Korea, April. 2011
- **International Workshop** on Rough and Soft Set Theory with Applications (RSAA) Fukuoka, Mac. 2010
- **International Workshop** Soft Computing and Data Engineering (SCDE) Korea, November. 2010
- **International Workshop** Distributed Data and Storage Systems Management , (DDSM07).
- **International Workshop** Grid and Pervasive Computing Security (GPCS'07) Korea.

Scientific Committee Membership:

- **Technical Committee** International Conference on Internet and Distributed Computing Systems (IDCS 2012)
- **Technical Committee** of International Workshop on Internet and Distributed Computing Systems, Melbourne, Australia, Oct. 2011
- **Technical Committee** of International Conference on Emerging Intelligent data and Web technologies, Tirana, Albania, Sept. 2011
- **Technical Committee** of 3rd International Conference on Intelligent Information and Database Systems, Korea, April, 2011
- **Technical Committee** of International Conference Information Integration on Web Based Applications and Services, Dec. 2009
- **Technical Committee** of International Arab Conference of Information Technology , Tunisia, December 16,2008
- **Technical Committee of** The 2008 International Symposium on Ubiquitous Multimedia Computing, Hobart, Australia,October 2008.
- **Technical Committee** of KnowledgeGrid Malaysia, MIMOS Bhd, 2007
- **Scientific Committee** of 4th International Conference on Software Engineering, Vienna, May 25-27, 2007 (ISCE07)
- **Program Committee** of 7th International Conference on Intelligent Systems Design and Applications, Rio de Janeiro, Brazil, Oct. 2007
- **Program Committee** of the International Symposium on Data Mining and Information Retrieval, Niagara Fall, Canada, 2007
- **Technical Committee** of WSEAS International Conference on E-Activities, Venice, Italy, 20-22 November 2006
- **Scientific Committee** of International Conference on Computer Science, Budapest, May, 2006
- **Scientific Committee** of International Conference on Knowledge Mining (ICKM) Prague, 2006

- **Technical Committee**, International Workshop on Grid Computing Security and Resource Management (GSRM'06), Reading, UK, May 2006,
- **Technical Committee** of 4th International Workshops on Autonomic Distributed Data Storage Systems management, Reading,UK, May, 2006
- **Technical Committee** of 2nd International Workshops on Grid and Peer-to-Peer Computing, Singapore, 9-12 May 2005
- **Technical Committee** of 3rd International Workshops on Autonomic Distributed Data Storage Systems Management, Atlanta,USA, 22-25 May, 2005
- **Technical Committee** of the 9th WSEAS International Conference on Computers, (Special Session on Distributed Database and Storage Management), Athens, Greece, July 2005
- **Technical Committee** on Databases, International Association of Science and Technology (**IASTED**, centered in Calgary) –2003

14. TEACHING EXPERIENCE

i. Topic taught

Advanced Calculus, Linear Algebra, Complex Analysis, Programming (Pascal and C), Software Engineering, Database Management, Discrete Structure ,Logic and Functional Programming, Database Systems, Computer System Modeling and Simulation, Special Topics (Data mining), Analysis and Design of Algorithms, Theory of Computer Science, Research Methodology.

ii. Supervisor & Co-supervisor for MSc by research and PhD in Computer Science

Number of Postgraduate Students Supervised:

Program	Status	As a Chairman	As a Member
PhD	Graduated	7	2
	Ongoing	7	-
Masters (with thesis)	Graduated	11	4
	Ongoing	-	-
Masters (without thesis)	Graduated	-	-
	Ongoing	-	-

iv) Local Project Supervisor for MBA Programme

Title : Local Supervisor
Name of Student : Zulkifli bin Mohamad
Title of The Dissertation: IT- A Means of Improving State Land Administration
Programme : MBA
Year : 1994 (graduated) (Awarded by University of Hull, England).

v) Curriculum Development

No	Programmes	University	Status
1	Bachelor of Information Technology (Software Engineering)	KUSTEM (UMT)	Approved and offered
2	Bachelor of Computer Science: - Information Security - Software Engineering - Web Technology - Multimedia	UTHM	Approved by MQA and offered
3	Master of Computer Science (Mixed-mode) - Soft Computing - Software Engineering - Web Technology - Information Security	UTHM	Approved by MQA and offered
4	Master of Information Technology (research) and PhD	UTHM	Approved and offered

15. OTHER APPOINTMENTS AT UTHM

- Senat member
- Head of IPMO CAPs (Research – until Dec. 2010)
- Committee member for staff study leave (2008-2009)
- Panel for FRGS, ERGS, and LRGS (MOHE, 2010-2012)

16. RESEARCH ACTIVITIES

i. Research Completed

I/O issues on large scale computing. A short term project, funded by Universiti Putra Malaysia (1998 - RM 10,000.00)

Voting techniques in concurrency control for distributed database system. A short term project, funded by Universiti Putra Malaysia. (1999 - RM 7200.00)

Efficient Access of Replicated Data in Distributed Database. A short term project, funded by Universiti Putra Malaysia (2000- RM 9000.00)

Cluster Server Management, IRPA Grant (EA 30501) RM 70,000.00. Funded by MOSTE (2002-2005)

Head of the research project

Development of Remotely Operated Vehicle System For Underwater Inspection and Data Acquisition IRPA (RM 507,000.00) (2002-2005)

Member

Data Grid Management, Fundamental Grant (FRGS -0274) RM 30,000.00. Funded by MOHE (2007-2009)

Head of the research project.

Exploring Rough Set Approach on Analyzing and Extracting Data for Data Mining (FRGS) RM 40,000.00

Funded by MOHE (2007-2009)

Head of the research project.

The Development of Data Analyzer For Early Detection of Palm Oil Devastating Fungus,(RM 87,000.00)

Funded by MOSTI (Nov. 2008 – Mei. 2010)

Member

Application of Novel Higher Order Neural Network to Improve Storm Water Prediction, (RM 87,800.00)

Funded by MOSTI (Jan. 2009 – June. 2010)

Member

On-Going

Soft Set Theory for Data Mining (FRGS) RM 40,000.00

Funded by MOHE (2010-2012)

Head of the research project

Soft Set Approach for Clustering Web User Transaction (FRGS) RM 30,000.00

Funded by MOHE (2010-2012)

Member of the research project

A New Model to Enhance the Computational Efficiency of Data Mining

Classification Modelling (FRGS) RM 40,000.00
Funded by MOHE (2010-2012)
Member of the research project

A New Data Hiding Scheme With High Imperceptibility and Security (FRGS)
(RM 52,500)
Funded by MOHE (2012-2015)
Head of the research project

17. PUBLICATIONS

i. **Book**

1. "Internet and Distributed Computing Advancements: Theoretical Frameworks and Practical Applications" February, 2012, IGI Global, USA.

ii. **Journals/Transactions/ Equivalent to Journal**

1. Ahmad Shukri Mohd Noor, Tutut Herawan and Mustafa Mat Deris," Neighbor-Replica Distribution Technique Model for Availability Prediction in Distributed Interdependent Environment", *International Journal of Cloud Applications and Computing*, IGI-Global, vol.2, issue 3, 2012, pp. 98-109.
2. Bana Handaga, Tutut Herawan, **Mustafa Mat Deris**,"FSSC: An Algorithm for Classifying Numerical Data Using Fuzzy Soft Set Theory", *International Journal of Fuzzy System Applications*, IGI-Global, vol.2, issue 4, 2012, pp. 29-46.
3. Zailani Abdullah, Tutut Herawan and **Mustafa Mat Deris**. Efficient and Scalable Model for Mining Critical Least Association Rules. *Journal of The Chinese Institute of Engineer*, vol. 35, no.5, 2012, pp. 547-554 [IF 0.295]
4. Iwan Tri Riyadi Yanto, Tutut Herawan and **Mustafa Mat Deris** ,"Applying Variable Precision Rough Set Model for Clustering Students Suffering Study's Anxiety", *Journal of Expert Systems with Applications, Elsevier*, vol. 39 (1), 2012, pp. 452-459 [IF 2.203]
5. Ahmad Nazari Mohd. Rose, Mohd Isa Awang, Hasni Hassan and **Mustafa Mat Deris**, Comparison of Techniques in Solving Incomplete Datasets in Softset, *International Journal of Database Theory and Application*, vol.4, 2011, pp.1-12.
6. Zarina M, **Deris M.M**, Rose A.M. Isa A.M,"Job scheduling for dynamic data replication strategy based on federation data grid systems" LNCS vol. 154, 2011, pp.283-293

7. Ahmad Nazari Mohd Rose, Hasni Hassan, Mohd Isa Awang, Nor Aida Mahiddin, Hidayatulaminah Mohd Amin, **Mustafa Mat Deris**, "Solving Incomplete Datasets in Soft Set Using Supported Sets and Aggregate Values", *Procedia CS* 5,2011, 354-361.
8. Iwan Tri Riyadi Yanto, Tutut Herawan and **Mustafa Mat Deris**. Data clustering using Variable Precision Rough Set Model (VPRS). *International Journal of Intelligent Data Analysis*, vol.15, no. 4, 2011, pp 465-482 [IF 0.448]
9. Sapiee Jamel, **Mustafa Mat Deris**, Iwan Tri Riyadi Yanto and Tutut Herawan. "HiSea: A Non Binary Toy Cipher", *Journal of Computing*, Vol.3, Issue 6, 2011, pp. 20-24.
10. Tutut Herawan, **Mustafa Mat Deris**, "A soft set approach for association rules mining", *International Journal of Knowledge Based Systems, Elsevier*. Vol. 24, No.1, Feb. 2011, pp. 186-195 [IF 2.422]
11. Kamaruddin Malik Mohamad, Ahmed Patel, Tutut Herawan; **Mustafa Mat Deris**, myKarve: JPEG Image and Thumbnail Carver, *International Journal of Digital Forensic Practice*, Taylor & Francis, Vol.3, no. 2-4, 2010, pp. 74-97.
12. Tutut Herawan, Iwan Tri Riyadi Yanto, **Mustafa Mat Deris**, "ROSMAN: ROugh Set approach for clustering Supplier base MANagement", *Journal of Biomedical Soft Computing and Human Sciences*, vol.16, no.2, 2010, pp.105-114
13. Iwan Tri Riyadi Yanto, Tutut Herawan, **Mustafa Mat Deris**, "RoCeT: Rough Clustering for web Transactions", *Journal of Biomedical Soft Computing and Human Sciences*, vol.16, no.2, 2010, pp.135-144
14. Mohd Isa Awang, Ahmad Nazari Mohd Rose, Tutut Herawan, **Mustafa Mat Deris**: Soft Set Approach for Selecting Decision Attribute in Data Clustering. LNAI, vol. 6441, pp. 87-98, 2010
15. Zailani Abdullah, Tutut Herawan and **Mustafa Mat Deris**. Scalable Model for Mining Critical Least Association Rules. *Lecture Notes in Computer Science* vol. 6377, pp. 509-516, 2010. © Springer-Verlag , 2010.
16. Tutut Herawan, Rozaida Ghazali, and **Mustafa Mat Deris**. Soft set theoretic approach for dimensionality reduction. *International Journal of Database Theory and Application*, SERSC Korea, Vol. 3, No. 2, June 2010, pp. 47-60.
17. Tutut Herawan, **Mustafa Mat Deris** and Jemal H. Abawajy. Rough set approach for selecting clustering attribute. *International Journal of Knowledge Based Systems, Elsevier*, Vol. 23, No. 3, April 2010, pp. 220–231. [IF 1.308]
18. Tutut Herawan, Rozaida Ghazali, Iwan Tri Riyadi Yanto and **Mustafa Mat Deris**. Rough set approach for categorical data clustering. To appear in a special issue of DTA

2009, *International Journal of Database Theory and Application*, SERSC Korea, Vol. 3, No. 1, Mac 2010, pp. 33-52.

19. Kamaruddin Malik Mohamad, Tutut Herawan and **Mustafa Mat Deris**. Dual-byte-marker algorithm for detecting JFIF header using FORHEADER. *Communication of Computer and Information Sciences* 76, pp. 17–26, 2010. © Springer-Verlag ,2010.
20. Kamaruddin Malik Mohamad, Tutut Herawan and **Mustafa Mat Deris**. Hiding data in JPEG using in-DQT technique. *Communication of Computer and Information Sciences* 76, pp. 27–36, 2010. © Springer-Verlag , 2010.
21. Zailani Abdullah, Tutut Herawan and **Mustafa Mat Deris**. Mining significant least association rules using fast SLP-Growth algorithm. *Lecture Notes in Computer Science* vol. 6059, pp. 324–336, 2010. © Springer-Verlag , 2010.
22. Ahmad Nazari Mohd Rose, Tutut Herawan and **Mustafa Mat Deris**. A framework of decision making based on maximal supported sets. *Lecture Notes in Computer Science* vol. 6063, pp. 473–482, 2010. © Springer-Verlag , 2010.
23. Tutut Herawan, Ahmad Nazari Mohd Rose and **Mustafa Mat Deris**. Soft set theoretic approach for discovering attributes dependency in information systems. *Lecture Notes in Computer Science* vol. 6064, pp. 596–605, 2010. © Springer-Verlag , 2010.
24. Tutut Herawan, **Mustafa Mat Deris** and Jemal H. Abawajy. Matrices representation of multi soft-sets and its application. *Lecture Notes in Computer Science* vol. 6018, pp. 201–214, 2010. © Springer-Verlag , 2010.
25. Tutut Herawan and **Mustafa Mat Deris**. Soft decision making for patients suspected influenza. *Lecture Notes in Computer Science* vol. 6018, pp. 405–418, 2010. © Springer-Verlag , 2010.
26. Sapiee Jamel, Tutut Herawan and **Mustafa Mat Deris**. A construction of cryptographic algorithms based on hybrid cubes. *Lecture Notes in Computer Science* 6019, pp. 175–187, 2010. © Springer-Verlag, 2010.
27. Tutut Herawan, Iwan Tri Riyadi Yanto and **Mustafa Mat Deris**. A construction of hierarchical rough set approximations in information systems using dependency of attributes. *Advances in Intelligent Information and Database Systems, Studies in Computational Intelligence* vol. 283, pp. 3–15. © Springer-Verlag, 2010.
28. Iwan Tri Riyadi Yanto, Tutut Herawan and **Mustafa Mat Deris**. A framework on rough set approach for clustering web transactions. *Advances in Intelligent Information and Database Systems, Studies in Computational Intelligence* vol. 283, pp. 265–277. © Springer-Verlag , 2010.

29. Sapiee Jamel, Tutut Herawan, **Mustafa Mat Deris**, A Cryptographic Algorithm Based on Hybrid Cubes, *Lecture Notes in Computer Science*, © Springer-Verlag, vol. 6019, pp.175-187, 2010
30. Iwan Tri Riyadi Yanto, Tutut Herawan, Mustafa Mat Deris,” A framework of Rough Clustering for Web Transactions”, *Advances in Intelligent Information and Database Systems*, © Springer-Verlag, vol.283, pp. 265-277, 2010.
31. Tutut Herawan, Iwan Tri Riyadi Yanto and **Mustafa Mat Deris**. “A rough set approach for categorical data clustering”,*Communications in Computer and Information Science*,© Springer-Verlag, vol. 64, pp.179-186, 2009.
32. Tutut Herawan, Iwan Tri Riyadi Yanto and **Mustafa Mat Deris**. “A soft set approach for maximal association rules mining”. *Communications in Computer and Information Science*, ,© Springer-Verlag, vol. 64, pp. 163-170, 2009.
33. Tutut Herawan, Iwan Tri Riyadi Yanto and **Mustafa Mat Deris**. SMARViz: “Soft maximal association rules Visualization”. *Lecture Notes in Computer Science*, ,© Springer-Verlag, vol. 5857, pp.664-674, 2009.
34. Siti M. Wasikon, **Mustafa Mat Deris**,” Hasten Dynamic Frame Slotted ALOHA Algorithm for Fast Identification in RFID System” *Scalable Information Systems*, ,© Springer-Verlag,vol 18, pp. 162-174, 2009
35. Tutut Herawan, Ahmad Nazari Mohd Rose and **Mustafa Mat Deris**. “Soft set theoretic approach for dimensionality reduction”. *Communications in Computer and Information Science*, ,© Springer-Verlag, vol. 64, pp.171-178, 2009.
36. Kamaruddin Malik Mohamad and **Mustafa Mat Deris**. “Fragmentation Point Detection of JPEG Images at DHT Using Validator”. *Lecture Notes in Computer Science*, ,© Springer-Verlag, vol. 5899, pp 173-180,2009.
37. Kamaruddin Malik Mohamad and **Mustafa Mat Deris**. “Visualization of JPEG Metadata”. *Lecture Notes in Computer Science*, ,© Springer-Verlag, vol. 5857 pp 543-550, 2009.
38. Tutut Herawan and **Mustafa Mat Deris**. “A Framework on Rough Set-Based Partitioning Attribute Selection”. *Lecture Notes in Computer Science*, ,© Springer-Verlag, vol. 5755, pp. 91-100, 2009.
39. Tutut Herawan and **Mustafa Mat Deris**. “On Multi-soft Sets Construction in Information Systems”. *Lecture Notes in Computer Science*, ,© Springer-Verlag, vol. 5755, pp 101-110, 2009.

40. A.Noraziah, **M.Mat Deris**, M.Y.M.Saman, R.Norhayati, M. Rabiei, W.N. Shuhadah,” Managing Transactions on Grid-Neighbor Replication in Distributed Systems”, *Int’l Journal of Computer Mathematics, Taylor & Francis*, vol.86, no. 9, pp. 1624- 1633, July 2009. [IF 0.546]
41. **Mustafa Mat Deris**, Jemal H. Abawajy, David Taniar, Ali Mamat, “Neighbor Replication on Triangular-Grid Structure for Distributed Data Management” *International Journal of High Performance Computing and Networks, Inderscience*, Vol. 6 No.1, pp. 56-65, June 2009.
42. Mohammed Radi, Ali Mamat, **M.Mat Deris**, Hamidah Ibrahim, and Subramaniam Shamala,” A Framework for Evaluating Update Propagation Techniques In Large Scale Data Grid”, *International Journal of Computer Science and Network Security* , Vol. 8, no. 9, pp 301-308, Sept. 2008.
43. Mohammed Radi, Ali Mamat, **M.Mat Deris**, Hamidah Ibrahim and Subramaniam Shamala,” Access weight replica consistency protocol for large scale data grid” *Journal of Computer Science, Science Publications* 4(2) 103-110, 2008.
44. Darena S.S and **Mustafa M.D.**,”An Efficient Hierarchical Clustering Model for Web Transactions”, *International Journal of Business Intelligence and Data Mining, Inderscience*, Vol. 3, no. 2, pp. 147-157, September 2008
45. **M.Mat Deris**, J.H. Abawajy, Ali Mamat,” An Efficient Replicated Data Access Approach for Large-Scale Distributed Systems“, *Journal of Future Generation of Computer Systems*, Elsevier , vol. 24, no. 1, pp 1-9, Jan 2008. [IF 1.46]
46. Mohammed Radi, Ali Mamat, **Mustafa Mat Deris**, Hamidah Ibrahim, Subramaniam Shamala,” Update Propagation Technique for Data Grid” *Lecture Notes in Computer Science*, Springer-Verlag, vol. 4707, pp 115-127, August 2007.
47. A.Noraziah, **M.Mat Deris**, N.A.Ahmed, R.Norhayati, M.Y.M.Saman, M.A.Zeyad “Preserving Data Consistency through Neighbor Replication on Grid Daemon” *American Journal of Applied Science* 4(10), pp. 748-755, July 2007
48. W. N. Shuhadah, **M.Mat Deris**, A. Noraziah, M.Y.Saman, M.Rabiei,” Database Consistency Using Update-Ordering in Distributed Databases”, *International Journal of Algorithm and Computational Technology,UK*, vol 1, no. 1, pp 17-43, Feb. 2007.
49. **M. Mat Deris**, Z. Aznida, W. A.Suryani, M. Zarina, Y. Roslina,” Performance Modeling for Asynchronous Replica Distribution Technique on Distributed Database Systems”, *Int’l Journal of Computer Mathematics, Taylor & Francis*, UK vol. 84, no. 2, pp 183-192, 2007. [IF 0.31]
50. Nureize Arbaiy, Azizul Azhar Ramli, Zurinah Suradi, **Mustafa Mat Deris**,” Pest Activity Prognosis in the Ricefield using Mobile Devices” *Encyclopedia of Mobile Computing & Commerce (EMCC),Idea Group, USA*, vol.2, pp.693-699, 2007

51. Ziyad Tariq Abdul-Mehdi, Ali Bin Mamat, Hamidah Ibrahim and **Mustafa M.Deris**” Replication Management in mobile disconnection mode”, *Encyclopedia of Mobile Computing & Commerce (EMCC)*, Idea Group, USA, vol.2, pp.763-768, 2007
52. Ziyad Tariq Abdul-Mehdi, Ali Mamat, Hamidah Ibrahim, **Mustafa Mat Ders**, New Concurrency Model for Mobile Database Environment”, *International journal of theoretical and applied computer science*, vol.1, no. 1, pp 101-108, 2006.
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18. CONSULTATIONS

No.	Topic	Duration and Location	Status
1	Sistem Maklumat KUSZA	(1 year -1996), KUSZA	Head
2	computer system for Terengganu Municipal Council and Hulu Terengganu District	3 months, K.Terengganu 1998	Technical Advisor
3	Kolej Teknologi Bestari IT programmes	2 years, K. Terengganu 2003-04	Advisor
4	IT workshop to Malay Chamber of Commerce	1 year Terengganu 2004	Advisor
5	IT programs (Diploma) to College Technology MARA,	4 years Batu Pahat 2006-todate	Advisor
6	Workshop on “ Writing Structure”	UPM, 4 August, 2007	Moderator
7	Workshop on “ Writing Quality Paper”	UMT, 23 Sept., 2007	Moderator
8	Workshop on “Writing Quality Paper”,	UMP, 5 Oct., 2007	Moderator
9	Workshop on “Effective Writing”,	UDM, 4-5 February, 2008	Moderator
10	Workshop on “Penulisan Ilmiah”,	Politeknik Merlimau , Melaka 5 May, 2008	Moderator
11	Workshop on “Writing and Publication” .	UMT, July, 2009	Moderator
12	Workshop on “Writing and Publishing for ISI Impact Factor Journal”	UPM, 24-25 May 2010	Moderator

19. PATENT

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Bil	Bahan Rekaan/Ciptaan	Peringkat Pengiktirafan & Sumbangan	Kod Rujukan, Tahun dsbnya.
1	Neighbour Replication Grid (NRG) Daemon for Managing Replication and Transactions in Distributed Environment	Kebangsaan, Ahli	Patent Application No: PI20090665, Filing Date 11/3/2009.

20. INVITED SPEAKER

- i. Seminar on IT in Education, Bandung, Indonesia, 29 April 2003
- ii. Seminar Nasional Aplikasi Teknologi Informasi, Yogyakarta, 18 June, 2005
- iii. Seminar Matematik Kebangsaan, University Malaya, 7 Jun 2006
- iv. International Conference on Mathematics and Statistics, Bandung, 18-20 June 2006
- v. International Seminar on Mathematics and Information Technology, Yogyakarta, Mac 2007.
- vi. Panel of Expert on “Bengkel Penulisan dan Penerbitan”, UPM, 20-22 July, 2007
- vii. Nasional Seminar on Mathematics and Operational Research, UMT, Sept. 2007
- viii. Workshop on “ Writing Structure”, UPM, 4 August, 2007.
- ix. Workshop on “ Writing Quality Paper”, UMT, 23 Sept., 2007
- x. Workshop on “Writing Quality Paper”, UMP, 5 Oct., 2007
- xi. Workshop on “Effective Writing”, UDM, 4-5 February, 2008.
- xii. Workshop on “Writing and Publishing for ISI Impact Factor Journal”
Universitas Indonesia, 8 Oct, 2010
- xiii. International Seminar on ICT in Teaching and Learning, KUPU, Brunei, Mac. 2011
- xiv. Workshop on “Writing and Publishing for ISI Impact Factor Journal”
Universitas Islam Indonesia, (UII), Yogyakarta, 29/3/2011
- xv. Workshop on “Writing and Publishing for ISI Impact Factor Journal”
Universitas Depongoro, (UNDIP), Semarang, 31/3/2011.
- xvi. Workshop on “Writing and Publishing for ISI Impact Factor Journal” UIN, Riau,
25/09/2012
- xvii. Public Lecture on Soft Computing and Its Applications, UIN, Riau, 25/9/2012

21. AWARDS

- **Recipient** of Tunku Abd. Rahman Foundation Awards (1981-1982) .
- **Recipient** of Syed Kechik Awards for Best Malay Student 1980.
- Excellence Service Awards (vertical) 1996.
- Excellence Service Awards (2000)
- Excellence Service Awards (2002)
- **Gold medal:** 33rd International exhibition of Inventions New techniques Products, Geneva, (Muhammad Suzuri Hitam, Wong Siew Leng, Liew Hock Chark, **Mustafa Mat Deris**, Md. Yazid Mohd Saman, ” Automatic Recognition and Estimation of Coral Reefs From Underwater Video Images”), 6-10 April, 2005.
- **Bronze medal:** 33rd International exhibition of Inventions New techniques Products, Geneva, (Muhammad Suzuri Hitam, Wan Nurul Jawahir Wan Yusof, **Mustafa Mat Deris**“ StaRS: Smart Trademark Retrieval System), 6-10 April, 2005.
- **Recipient of “ICT Excellent Teacher” award 2006**, Malaysian National Computing Confederation (MNCC).
- **Recipient Anugerah Penerbitan Universiti 2008**, Kategori Makalah Terbaik, Universiti Tun Hussein Onn Malaysia.
- **Recipient Anugerah Penyelidik Universiti 2008**, Universiti Tun Hussein Onn Malaysia
- **Special Award Vice-Cancellor 2008**, Universiti Tun Hussein Onn Malaysia
- **Recipient Anugerah Penyelidik Terbaik 2009**, Universiti Tun Hussein Onn Malaysia
- **Recipient Anugerah Penerbitan Universiti 2009**, Universiti Tun Hussein Onn Malaysia.

22. EXTENTION AND PUBLIC SERVICES

- **A Member** , Terengganu State of Data Processing Committee 1992-1996.
- **Give a talk on** "Celik Komputer" at Sekolah Menengah Tengku Mizan, Maras, K.Terengganu 1996.
- Appeared on "Kenal IT" , Radio 3 Kuala Terengganu, Januari-April,1998
- **Chairman**, for IT workshop, UPMT, 1999, 2000.
- **A Member of Symposium on** 'Mathematics and the New Millennium', KUT, 1-2 April, 2000.
- **Chairman of Seminar on IT**, Kuala Terengganu pada 18 Sept. 1999.
- **A Member of Parent - Teacher Association**, Sek. Men. Tengku Lela Segara, Marang, Terengganu 1999-2001
- **Give talk on** "Kecermelangan Akademik- Isu dan Kaedah Penyelesaian" to secondary school students (SPM & STPM), Sek. Men. Tengku Lela Segara, Marang, Terengganu, October 1, 2000.

- **Give talk on** " Kerjaya dalam bidang Sains dan Teknologi- " to secondary school students Sek. Men. Agama, Marang, Terengganu, October 13, 2000.
- **Chairman of Workshop on** "Motivasi: Kecermelangan Pelajar", to KUT computer science / IT students, November 9-11, 2000.
- **Give talk on** "kecermalangan pelajar tingkatan enam" Sek. Men. Keb. Bukit Tunggul, Kuala Terengganu, 28 Julai 2003
- **President** of the Academic Staffs Association, 2003
- Member of UPMT's football team 1999-2000
- Member of KUSTEM football team 2001-2004
- **Give talk on** Research Technique to KUSZA staffs, 2004
- **Pengerusi Biro Pemasaran** Taman Wirajaya, Parit Raja, B. Pahat 2006-2008
- **Give talk on** "Globalisasi ICT" SMK Lembah Bidong, Setiu, May 2008
- **A Member**, Professorial Council (Information Technology Section), 2010
- **Give talk on** "Aku Harus Berjaya Dalam Pendidikan" S.M.Agama Marang. Terengganu, Februari, 2011

23. EXTERNAL EXAMINER/ ASSESSOR

- Six M.Sc Thesis from UKM, UM and UTM.
- Five PhD Thesis from UPM,UKM,UTM, Deakin University (Australia)
- Promotion to Associate Professor (UKM,USM, USIM)
- Referee to professorship promotion (UPM,UKM)
- External assessor for professorship promotion (USM, UUM)