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Shebin El Kom, Menoufia University, Tel: 048-2316189, Fax: (048)-2 223694, web site, mu.menofia.edu.eg/fci, Wednesday, July 08, 2020  
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## Curriculum Vitae of Prof. Dr. Arabi Keshk

### السيرة الذاتية أ. د. عربى السيد إبراهيم كشك

Name: Arabi Elsayed Ibrahim Keshk

Job: Professor of Computer Science,

Dean of Faculty of Computers and Information, Menoufia University

Date & Place of Birth: 21 Nov. 1964, Kaloubia, Egypt

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أولاً: بيانات عامة:

عربى السيد إبراهيم كشك	الإسم (بالعربية)
Arabi Elsayed Ibrahim Keshk	الإسم (بالإنجليزية)
مسلم	الديانة
متزوج	الحالة الإجتماعية
أستاذ علوم الحاسب - 2014/7/22	الدرجة الوظيفية وتاريخها
- عميد كلية الحاسبات والمعلومات - جامعة المنوفية	الوظيفة الحالية
هندسة البرمجيات	التخصص العام
علوم الحاسب	القسم
2002	تاريخ التعيين
طنان قلوب القليوبية 1964/11/21	تاريخ الميلاد/محل الميلاد
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ثانياً: المؤهلات العلمية:

الجامعة / المؤسسة التعليمية	سنة الحصول عليها	الدرجة العلمية
المنوفية - كلية الهندسة الإلكترونية - منوف	1987	بكالوريوس الهندسة الإلكترونية
المنوفية - كلية الهندسة الإلكترونية - منوف	1995	ماجستير هندسة وعلوم الحاسب
اوساكا - اليابان	2001	دكتوراة الهندسة الإلكترونية

- عنوان رسالة الماجستير ومجالها :  
إختبار المعالج اساس الأنظمة الرقمية – المجال هندسة وعلوم الحاسب

Testing of Microprocessor Based-Digital Systems

- عنوان رسالة الدكتوراة ومجالها :  
تحليل محاكاة أعطال القنطرة فى إختبار دوائر CMOS المتكاملة  
Analysis and Simulation of Bridging Faults in Testing of CMOS Integrated Circuits  
ثالثاً: التدرج الوظيفي الأكاديمي (الداخلي والخارجي) :

الوظيفة	سنة الإلتحاق بها	إسم المؤسسة
باحث	2002-1988	المعهد القومى للبحوث الفلكية والجيوفيزيقية بحلوان
مدرس – قسم علوم الحاسب	2002	كلية الحاسبات والمعلومات بجامعة المنوفية
استاذ مساعد-علوم الحاسب	2009	كلية الحاسبات والمعلومات بجامعة المنوفية
ق.ع. رئيس قسم علوم الحاسب ووكيل الكلية لشئون التعليم والطلاب	2013-2011	كلية الحاسبات والمعلومات بجامعة المنوفية
استاذ - علوم الحاسب	2014	كلية الحاسبات والمعلومات بجامعة المنوفية
قائم بعمل عميد الكلية	-/2013/7 2016/7/8	كلية الحاسبات والمعلومات بجامعة المنوفية
عميد الكلية	-/2016/7 2022/8/21	كلية الحاسبات والمعلومات بجامعة المنوفية

رابعاً: الخبرة التدريسية والبحثية:

### Teaching Courses Experience

- 1- Electronics, Microprocessor, and Logic Circuits
- 2- Networks
- 3- VLSI Design & Testing
- 4- Software engineering & testing
- 5- Data and file Structures using Java and C++
- 6- Operating Systems
- 7- Embedded & Real time systems
- 8- Computer Graphics
- 9- Distributed Systems
- 10-Computer organization
- 11- System analysis & Design
- 12-Computer Languages (Assembly, C++, and JAVA)
- 13- Database & Data Mining
- 14-Computer Interfacing
- 15- Cloud Computing & Big Data Analytics

### Research Topics

- 1- Cloud Computing
- 2- Big Data Analytics
- 3- Distributed Systems

- 4- Digital Systems Testing
- 5- Software Testing
- 6- Data Security

خامساً: الدورات التدريبية الحاصل عليها:  
أ- دورات تدريبية في مجال التخصص:

م	مسمى الدورة التدريبية	تاريخ ومكان الإنعقاد
1	Cloud Computing Infrastructure	EMC <sup>2</sup> 2014/2
2	Big Data Analytics	EMC <sup>2</sup> 2016

ب- دورات تدريبية في مجال الجودة:

م	مسمى الدورة التدريبية	تاريخ ومكان الإنعقاد
1	اعداد مراجع خارجي لكليات الحاسبات	2015/3 الهيئة القومية لضمان الجودة والإعتماد
2		

سادساً: المهمات العلمية

م	مسمى المهمة	تاريخ ومكان الإنعقاد
1	منحة وزارة التعليم العالي لدور نوفمبر 2006 في إطار مبادرة الإنتماء والشراكة	2007/9/30 - 6/30 جامعة اوساكا- اليابان
2	استاذ زائر هندسة الحاسبات - جامعة السلطان قابوس	2010/6/4-2/4 سلطنة عمان
3		

سابعاً: الأنشطة المختلفة في مجال نظم إدارة الجودة / مشروعات تطوير التعليم :

م	النشاط / المساهمة	مدة المساهمة	الجهة
1	مراجع خارجي- كلية الحاسبات- حلوان	2015/5/11-5/7	جامعة حلوان
2	مراجع خارجي- كلية الحاسبات- القاهرة	2016/3/19-3/16	جامعة القاهرة
3	مراجع خارجي- كلية الحاسبات- بنها	2017/4/11-9	جامعة بنها
4	مراجع خارجي- كلية الحاسبات-ج المستقبل	2018/4/3-1	جامعة المستقبل

### Employment Experience

- Lecturer Assistant in National Research Institute of Astronomy and Geophysics, Department of Seismology, Helwan, Cairo, Egypt, 1988- 1997.
- Teaching Assistant in Computer Engineering in Osaka University from 1998- 2001, Testing of Digital Systems (Microprocessor, Memory, Input /Output, and CMOS ICs).
- Apr, 2001- Dec. 2002 Lecturer in High Institute of Technology studies, Egypt.
- Sep. 2002 – Mar. 2003 Visiting Researcher in Tokyo Metropolitan University, Tokyo, Japan.
- Oct., 2002 – June, 2009 Lecturer (Assistant Professor), Faculty of Computers and Information, Computer Science Dept., Menoufia University
- Feb.-June, 2010, Visiting Consultant in ECCE Dept., Sultan Qaboos University, Oman,
- June 2009 – 2014 , Associate Professor Head of Computer Science Dept.
- **July 2014 Professor of Computer Science**
- **Aug. 2013- 8/7/2019, Dean, Faculty of Computers and Information, Menoufia University.**

## **Research Area**

- **Software-based Built-in self test (BIST) for Digital Systems (SoC Testing)**
- **Software Testing and QoS**
- **Design for Testability of Digital Systems (Microprocessor, Memory, and CMOS ICs).**
- **Service Oriented Architecture (SOA) & Semantic Web Search Engine**
- **Cloud Computing**
- **Big Data analytics**

### Other Activity

- **Member of Quality Assurance Committee in Faculty of Computers and Information.**
- **Member of Egypt Seismological Networks project.**
- **IEEE member**

## **List of Publications:**

### **2020**

- 1- Rawda Draz, El-Sayed Atlam, Medhat Tawfik, and arabi Keshk" NON\_LINEAR APPROACH For AUTOMATIC EXTRACTION OF FIELD ASSOCIATION WORDS", IJETAE, Vol. 10, Issue 6, pp. 6-9, 2020.
- 2- Arabi Keshk, El-Sayed Atlam, and Amira Elkhateeb,"Use Formal Concept analysis to Mining Association Rules for Different Utilities Itemsets, International Information Institute, Vol 22, no. 6, pp. 473-478.
- 3- Shaimaa Mahmoud, Mahmoud Hussein, Arabi Keshk "Prediction Future Products Rate Using Machine Learning Algorithms," International Journal of Intelligent Systems and Applications,2020.
- 4- Shaimaa Mahmoud, Mahmoud Hussein, Arabi Keshk "Classification and Prediction of Opinion Mining in Social Networks Data", Accepted, International Journal of Computers and Information (IJCI), at the Faculty of Computer and Information-Menoufia University,2020.

### **2019**

- 5- Sara Ashehab, [Arabi Keshk](#), Sameh Abdullah, and Mohamed Almeshawy," Improved POMSA using OpenMP Parallel strategy and GPU", Accepted to published in IEEE International Conference on Information Tecnology(ITMUST)
- 6- Sara Ashehab, [Arabi Keshk](#), Sameh Abdullah, and Mohamed Almeshawy," A New Multiple Sequence Alignment Algorithm", Accepted to published in IEEE International Conference on Information Tecnology (ITMUST)
- 7- Eman M. Mohamed, Hamdy M. Mousa, [Arabi E. keshk](#), " Enhanced Partition Algorithm for Multiple Sequence Alignment with Dynamic Programming", ITMUSTCONF2019, Egypt, 29-30.April 2019.
- 8- Eman M. Mohamed, Hamdy M. Mousa, [Arabi E. keshk](#), "Parallelization of PROBCONS for Large-Scale Multiple Sequence Alignment", International Journal of Information Technology and Computer Science (IJITCS), 2019 (<http://www.mecs-press.org/>) (Accepted).
- 9- Eman M. Mohamed, Hamdy M. Mousa, [Arabi E. keshk](#), " Enhanced PROBCONS for Multiple Sequence Alignment in Cloud Computing", International Journal of Computers and Information (IJCI), 2019. (Submitted).
- 10- Shaimaa Mahmoud, Mahmoud Hussein, [Arabi Keshk](#) "Improving Opinion Mining in Social Networks Data," The 29th International Conference on Computer Theory and Applications (ICCTA 2019).

### **2018**

- 11- Eman M. Mohamed, Hamdy M. Mousa, [Arabi E. keshk](#), "Comparative Analysis of Multiple Sequence Alignment Tools", International Journal of Information Technology and Computer Science(IJITCS), Vol.10, No.8, pp.24-30, 2018.
- 12- Ahmed A. AbdulHamed, Medhat A. Tawfeek, [Arabi E. Keshk](#), " A Genetic Algorithm for Service Flow Management with budget Constraint in Heterogeneous Computing", Future Computing and Informatics Journal, In Press, 2018

- 13- Eman M. Mohamed, Hamdy M. Mousa, [Arabi E. keshk](#), "Improving Standard Progressive Multiple Sequence Alignment by Using Multithreading Techniques", accepted paper in IEEE 14th International Computer Engineering Conference (ICENCO) 2018
- 14- Sara Shehab, Sameh Abdulah, [Arabi E. Keshk](#), "A Survey of the State-of-the-Art Parallel Multiple Sequence Alignment Algorithms on Multicore Systems", International Journal of Computer Applications (0975 - 8887) Volume 182 - No.12, August 2018.
- 15- Sara Shehab, Sameh Abdulah, and [Arabi Keshk](#), "Parallel Algorithm for Aligning Multiple Biological Sequences on Manycore Systems", accepted paper in IEEE International Conference on Computer Engineering and Systems (ICCES 2018)

## **2017**

- 16- Amira Abdelatey, Mohamed Elkawkagy, Ashraf Elsis, Arabi Keshk, "A Multilateral Agent-Based Service Level Agreement Negotiation Framework", © Springer International Publishing AG 2017, Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2016, Advances in Intelligent Systems and Computing, pp. 576-586, 2017.
- 17- S. SHEHAB, S. SHOHDY, A. KESHK, "POMSA: An Efficient and Precise Position-Based Multiple Sequence Alignment Technique", The 2nd International Conference on Advanced Technology and Applied Science (ICaTAS), pp. 213-218, 2017.
- 18- E. ELWAN, M. ELKAWKAGY, A. KESHK, "Enhancing Fine Grained Technique for Maintaining Data Privacy", The 2nd International Conference on Advanced Technology and Applied Science (ICaTAS), pp. 369-375, 2017.

## **2016**

- 19- Amira Abdelatey, Mohamed Elkawkagy, Ashraf El-Sisi, and Arabi Keshk, "A Repaired Genetic Algorithm-based Approach for Web Service Security Negotiation," Accepted in 26th International Conference on Computer Theory and Applications, 2016, In press
- 20- Amira Abdelatey, Mohamed Elkawkagy, Ashraf El-Sisi, and Arabi Keshk, "Efficient Genetic-based Approach for Web Service Security Negotiation," Accepted in IEEE 12th International Computer Engineering Conference, 2016, In press.
- 21- I.M.Selim, Arabi E. Keshk, Bassant M.El Shourbugy, "Galaxy Image Classification using Non-Negative Matrix Factorization" International Journal of Computer Applications (0975 – 8887) Volume 137 – No.5, March 2016.
- 22- Amira Abdelatey, Mohamed Elkawkagy, Ashraf Elsis and Arabi Keshk, "Improving Matching Web Service Security Policy Based on Semantics", IJITCS1.
- 23- Dalia Tourky, Mohamed Elkawkagy and Arabi Keshk, "Homomorphic Encryption the "Holy Grail" of cryptography", submitted to ICCS 2016.
- 24- Alla Elsobky, Abdelalim K. Farag, and Arabi Keshk "Efficient Implementation of McEliece Cryptosystem on Graphic Processing Unit", Published in INFOS 2016.

## **2015**

- 25- Medhat A. Tawfik, Ashraf Elsis, Arabi Keshk, and Fawzy Torkey, "Cloud Task Scheduling Based on Ant Colony Optimization), Accepted for publication in International Arab Journal of Information Technology (IAJIT), Vol. 12, No.2, March 2015, pp.129-137.
- 26- S. E. Soliman and A. E. Keshk, "Memetic Algorithm For Solving University Course Timetabling Problem," International Journal of Mechanical Engineering and Information Technology, vol. 03, p. 11, 2015.
- 27- Ibrahim A Elgendy, Mohamed El-kawkagy, Arabi Keshk, "An Efficient Framework to Improve the Performance of Mobile Applications", Accepted for publication in IJDTA International Journal of Digital Content Technology and its Applications.

## **2014**

- 28- Ibrahim A. Elgendy, Mohamed El-kawkagy, Arabi Keshk, "Improving the Performance of Mobile Applications Using Cloud Computing", INFOS, 12, 2014.
- 29- M. Z. Rashad, A. E. Keshk, M. A. El-Dosuky, and M. M. Kamal, ' Genetic Cuckoo Optimization Algorithm (GCOA)", International Journal of Computer Applications (0975 – 8887) Volume 90 – No.3, pp. 7-12, March 2014
- 30- Arabi E. keshk, " Enhanced Dynamic Algorithm of Genome Sequence Alignments", International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 2, Issue 6, pp. 221-226, November – December 2013, ISSN 2278-6856, <http://www.ijettcs.org/V2I6.html>
- 31- Arabi E. Keshk, " Cloud Computing Online Scheduling", International organization of Scientific Research Journal of Engineering (IOSRJEN), ISSN (e): 2250-3021, ISSN (p): 2278-8719, Vol. 3, Issue X4(3. 2014).

## **2013**

- 32- A.M.Lamey, A. keshk, and H. Mousa, "Improvement The Performance of ERP Systems Using Intermediate Documents and Remote Function Call Technique", International Journal of Intelligent Computing and Information Science (IJICIS), Vol. 13, No. 2, pp. 277-293, April. 2013.
- 33- ArabiKeshk and AfafMousa, "Negotiation Strategy for Web Services", International Journal of Intelligent Computing and Information Science (IJICIS), Vol. 13, No. 4, pp. 83-93 , October. 2013
- 34- Arabi E. keshk, " Enhanced Dynamic Algorithm of Genome Sequence Alignments", International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 2, Issue 6, pp. 221-226, November – December 2013, ISSN 2278-6856, <http://www.ijettcs.org/V2I6.html>.

## **2012**

- 35- Nader Mahmoud<sup>1</sup>, Stephane A. Nicolau, Arabi Keshk Mostafa A. Ahmad, Luc Soler, and Jacques Marescaux, "Fast 3D Structure From Motion With Missing Points from Registration of Partial Reconstruction", AMDO 2012, vil. 7378. pp. 173-183, Springer Berlin Heidelberg
- 36- 1-Amira AbdEl-atey, Sherif El-etriby and Arabi S kishk. Article: Semantic Data Extraction from Infobox Wikipedia Template. International Journal of Computer Applications Volume 40 NO.17 Pages: 18-23, February 2012. Published by Foundation of Computer Science, New York, USA
- 37- Amira AbdEl-atey, Sherif El-etriby and Arabi kishk. Article: Evaluation of a Traditional Search Engine against a Semantic Search Engine Using User Effort Measurements. The 2012 World Congress on Computer Science and Information Technology, WCSIT'12. Egypt
- 38- Hamada M. Zahera, Gamal F. El Haddy , Arabi E. Keshk, " Optimizing Search Engine Result using an Intelligent Model ", International Journal of Computer Applications (0975 – 8887) Volume 50 – No.1, July 2012, USA.

## **2011**

- 39- Sara Shihab, Arabi Keshk, Waiel Fathy, "Fast Dynamic Algorithm for Sequence Alignment Based on Bioinformatics Algorithms" IEEE International Conference on Intelligent Computing and Intelligent Systems (ICIS 2011) pp.228-232.
- 40- Amira AbdEl-atey, Sherif El-etriby and Arabi kishk. Article: Constructing Semantic Web Form from Unstructured Web Page. International Journal of Computer Applications 30(10):34-41, September 2011.
- 41- Sara Shihab, Arabi Keshk, Hani Mahgoub, "A New Implemented Pair-Wise Algorithm Based on Bioinformatics Algorithms", Submitted to International Journal of Intelligent Computing and Information Science
- 42- Afaf Mousa, Arabi Keshk, and Waeil Fathy, " Negotiaition Strategy to Support QoS for Web services", WHybrid Strategy for Interest-Based Negotiation", submitted to The International Arab Journal of Information Technology.

## **2010**

- 43- Hany Mahgoub, Arabi Keshk, Fawzy Torkey, and Nabil Ismail, "An Efficient Online System of Concept Based Association Rules Mining", IEEE-INFOS 2010, NLPKM pp.1-8.
- 44- Afaf Mousa, Arabi Keshk, and Waeil Fathy, "Hybrid Strategy for Interest-Based Negotiation", The 2010 International Conference On Computer Engineering & Systems ICCES'2010 pp.27-30.

## **2009**

- 45- Mahmoud M. Khattab, Arabi E. Keshk, and Nabil A. Ismail, "A Modified Generic Fourier Descriptor for Medical Image Retrieval", The International Arab Journal of Information Technology, IAJIT, Zarqa, Jordan. (sent in 1/1/2009 and accepted in 3/5/2009)

## **2008**

- 46- A. E. Keshk "Enhancement the Security of Java Smart Cards" International Journal of Intelligent Computing and Information Science Vol. 8, No. 2, pp. 250-264, July 2008.
- 47- A. E. Keshk and M. M. Khatab, "Medical Image Retrieval Systems Based on Shape Descriptor" International Journal of Intelligent Computing and Information Science Vol. 8, No. 2, pp. 277-293, July 2008.
- 48- Arabi E. Keshk and Hatem.M. Abdul-Kader, "Remote Secure e-Voting System Development Using Homomorphic Encryption Technique", International Journal of Intelligent Computing and Information Science Vol. 8, No. 2, pp. 31-45, July 2008.

## **2007**

- 49- A. Keshk and M. Z. Rashad, "Improving Application Security Using biometrics (Fingerprints)", International Journal of Intelligent Computing and Information Science, Vol. 7, no. 1, January 2007, pp. 31-47.
- 50- Test Cases Using Genetic Algorithms", International Conference on Digital Communications and Computer Applications DCCA07, Jordan, March 19-22, pp.43-49.
- 51- M. A. Abdel Salam, A. E. Keshk, N. A. Ismael, and H.M. Nassar, "Automated Testing of Java Menu-Based GUIs Using XML Visual Editor", IEEE International Conference on Computer engineering & Systems ICCES'07, pp. 313-318.
- 52- F. A. Torkey, Arabi Keshk, Taher Hamza, and Amal Ibrahim "A New Methodology for Web Testing", IEEE 2007 ITI 5th International Conference on Information and communications Technology, pp. 77-82.
- 53- M. Asem, A. Keshk, N. Ismail, and H. Nassar "Specification-Driven automated Testing of Java swing GUIs Using XML", IEEE 2007 ITI 5th International Conference on Information and communications Technology, pp. 83-87.
- 54- Arabi Keshk and Amel Ibrahim, "Ensuring the Quality Testing of Web Using a New Methodology", The 7th IEEE International Symposium on Signal Processing and Information Technology - proceedings of ISSPIT 2007, pp. 1088-1093.
- 55- Arabi Keshk," Implementation of Distributed Application using RMI Java threads", The 7th IEEE International Symposium on Signal Processing and Information Technology - proceedings of ISSPIT 2007,, pp. 1028-1033.
- 56- A. E.. Keshk, and H. M. Abdul-kader, "Development of Remotely Secure E-Voting System", IEEE 2007 ITI 5th International Conference on Information and communications Technology, pp. 235-243.
- 57- Arabi Keshk "Software-based BIST for Analog to Digital Converters in SoC" IEEE 2nd International Design and Test Workshop - IDT'07 Proceedings, pp. 189-192,16-18 Dec. 2007.

## **2006**

- 58- Arabi Keshk and M. Z. Rashad, "Making Secure Electronic Elections Using Smart Cards" GESTS International Transaction on Computer Science and Engineering, vol. 35, No. 1, Dec. 2006, pp. 119-134



- 59- Arabi Keshk and M. Z. Rashad, "A secure On-line E-learning" The Egyptian International Conference For Online Teaching and Learning, May 2006, pp.97-88
- 60- M. Z. Rashad and Arabi Keshk, "Analysis of heart waves-using wavelet", The Egyptian International Conference For Online Teaching and Learning, May 2006, pp. 205-213.

## **2005**

- 61- Arabi Keshk and M. Z. Rashad, "A secure On-line E-learning" , Mansoura Journal for Computer & Information Sciences, Vol. 2, No. 2, July. 2005.
- 62- Arabi Keshk & Ahmed Omera, " Test Cases Generation Techniques using Genetic Algorithm" International Business for Market Information (IBIMA), Dec. 13-15, 2005.

## **2004**

- 63- Arabi Keshk, "Flash Memory Testing for Realistic Fault Modeling", IEEE International Conference on Computer engineering & Systems ICEEC 2004, pp. 503 – 506.
- 64- Arabi Keshk, Yukiya Miura, and Kozo Kinoshita, "Analysis of IDDQ Occurrence in Testing", IEICE Trans. on Information and Systems, Vol.E84, No.4, April 2004, pp. 534-536.

## **2003**

- 65- Arabi Keshk, Yukiya Miura, and Kozo Kinoshita, "Minimizing Intermediate Voltage and Oscillation of Bridging Faults in Testing CMOS Circuits", Journal of Engineering and Applied Science, Cairo University, pp. 773-787, Aug. 2003.

## **2000**

- 66- Arabi Keshk, Yukiya Miura, and Kozo Kinoshita, "A unified Procedure to Overcome the Byzantine General's Problem for Inter-gates and Intra-gate Bridging faults in CMOS Circuits," Journal of Information Processing Society of Japan, Vol. 41, No. 4, pp. 935-943, Apr. 2000.

## **1995**

- 67- Farg Z. El Halafawi, Aly M. Hassan, Hamdy M. Kelash and Arabi El Saied, "Testing of Microprocessor - Based Digital Systems," Electronics Engineering Bulletins, Menoufia University, Egypt, No. 9, Vol.1,1995, pp. 80-92

## **Names of References:**

- 1- Prof. Fawzy Ali Torkey, Ex-Preisident of Kafr Elshekh University, Egypt, torkey1951@yahoo.com
- 2- Prof. Dr. Nabil Abd El-Wahid Ismail, Previous Dean of Faculty of Computers and Information, Menoufiya University, nabil\_a\_ismail@yahoo.com
- 3- Prof. Dr. Mohiy hadhoud, Dean of Faculty of Computers and Information, Menoufiya University, mmhadhoud@yahoo.com
- 4- Prof. Dr. Yukiya Miura, Tokyo Metropolitan University, Japan, [miura@tmu.ac.jp](mailto:miura@tmu.ac.jp)